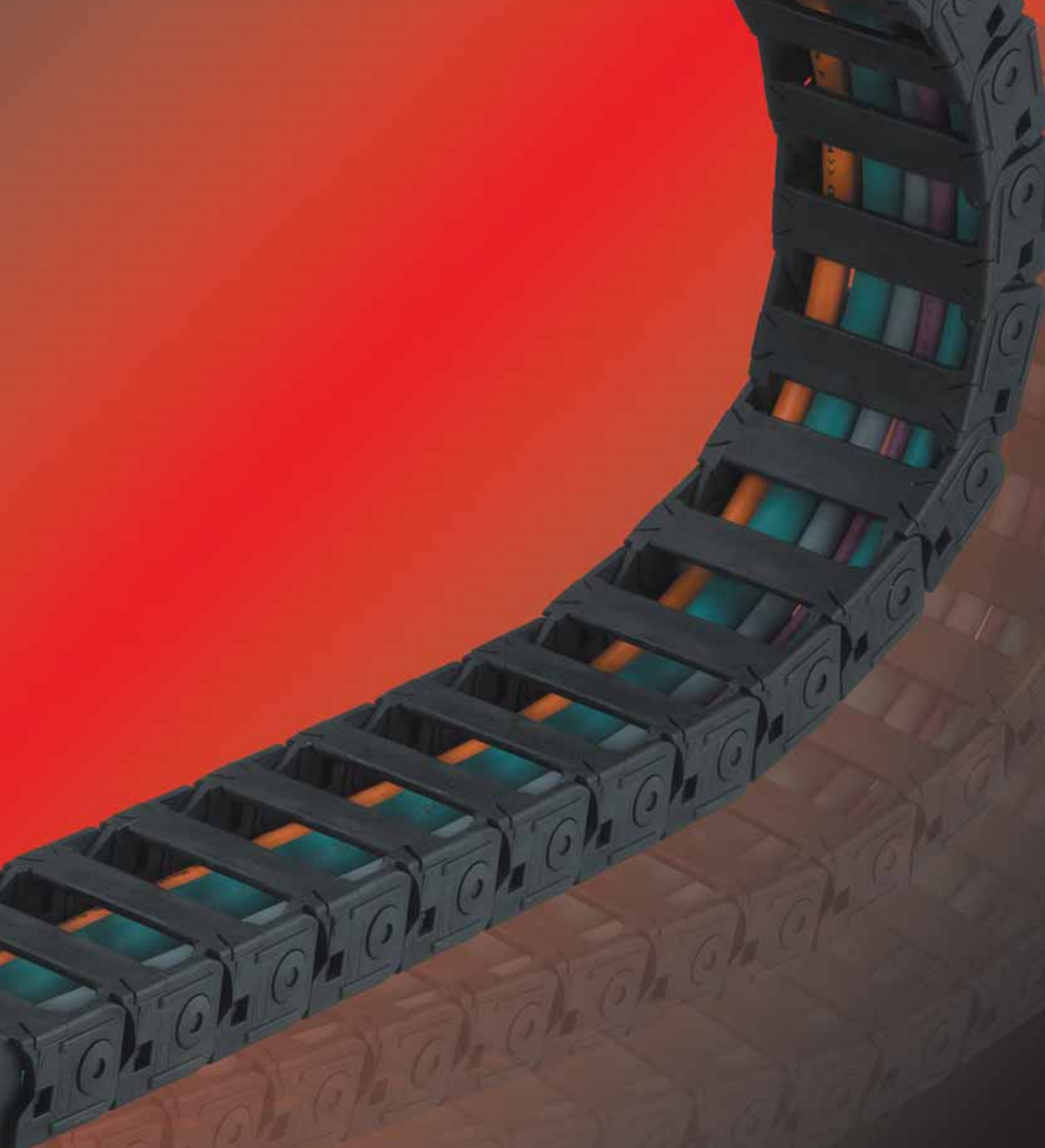


Cables and Wires







Product Range...



CC-Schleppflex®
(High Flexible Cables for Mobile Power Supply Chain Applications)



CC-Servo and CC-Servoflex
(Flexible and High Flexible Motor-Supply Cables, Shielded and Unshielded)



CC-Feedback and Sensor Cable
(Flexible and High Flexible Mobile Power Supply Chain Cables for Multiple Applications)



CC-Control Cables, Shielded and Unshielded
(Also for Intrinsically Safe Circuits)



CC-High Temperature Cables
(EVA, Silicone, FEP, PTFE)



CC-Communication and Data Cables
(Coax Cables and Telephone Cables for In- and Outdoor Use)



CC-Computer Cables
(For LAN Applications)



CC-Compensating Cables



CC-BUS and CC-BUS Schleppflex®
(PROFIBUS, CAN-BUS, BITBUS, AS-I-BUS, DeviceNet™...
Flexible and High Flexible Fieldbus Cables for Multiple Applications)



CC-Rubber Cables



CC-Flat Cables
(Flexible and High Flexible)



CC-Spiral Cables and Pre-Assembled Cables



CC-Special Cables
(Construction According to Your Specifications)



... for Your Needs!



More than 30 years of experience with cables and corresponding customer fidelity confirm that we are the right partner for you worldwide.

Our extensive standard product line as well as our cable specialists offer you a cable solution for any application, no matter how extraordinary.

Our “just in time” commitment allows us to fill your orders quickly. Backed by our substantial inventory, we ordinarily ship out your orders within 24 hours.



Brochure available



Cable protection and accessories

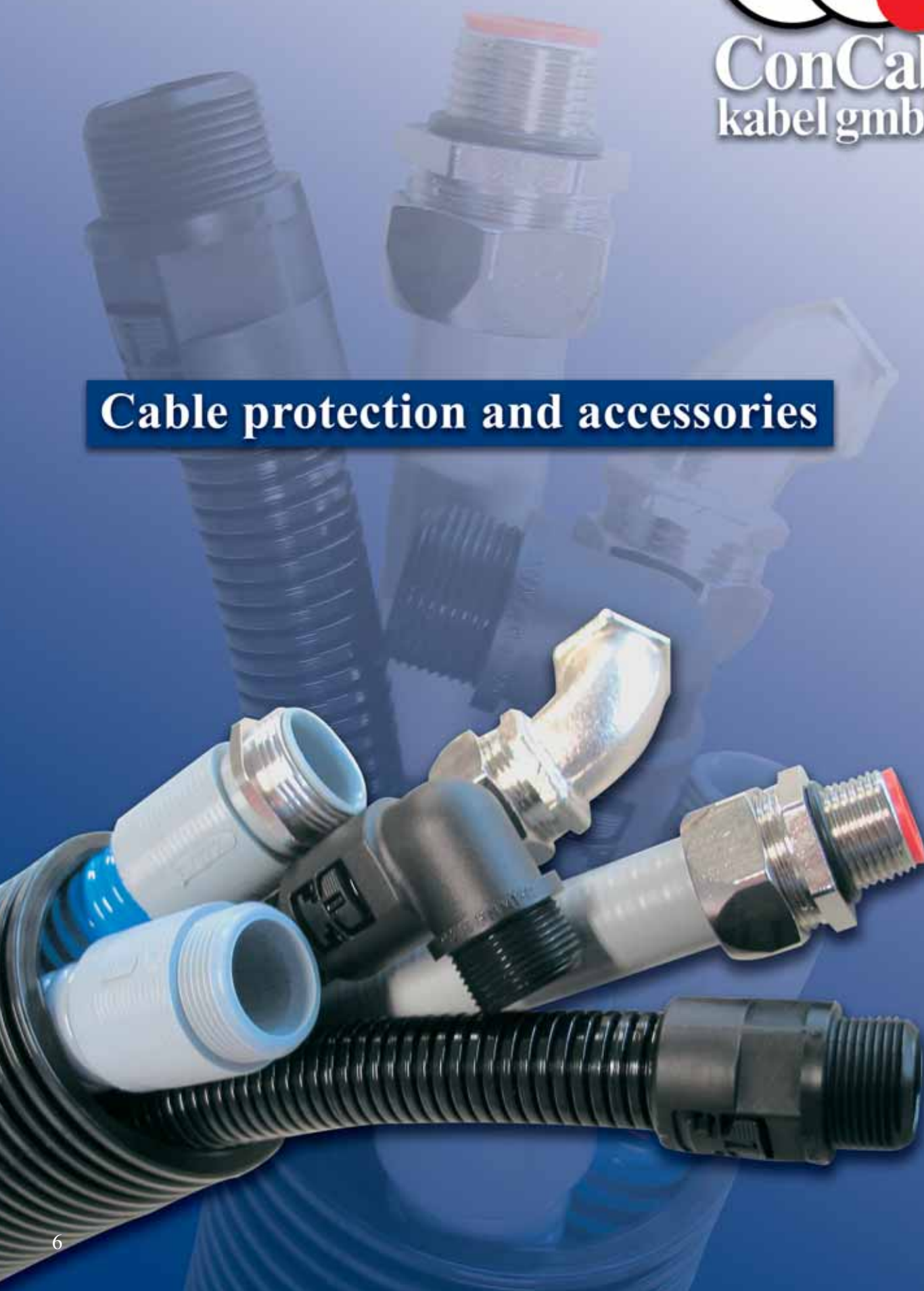




































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















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


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



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TP = paired

EMC = electromagnetic compatibility

* for mobile power supply chain application

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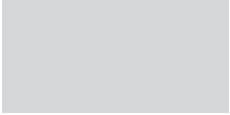










orange RAL 2003		Power cable: e.g. servo drives, frequency controlled drives application specific design	
green RAL 6018		Measurement cable: e.g. measuring systems, analogue sensors application specific and case specific design	
magenta RAL 4001		Hybrid-fieldbus cable: e.g. fieldbus systems 2 x optical fibres and 4 x 1.5/2.5 mm ² copper wires	Fibre optic: fieldbus Cu1: +24 V Cu2: 0 V to PIN1 Cu3: 0 V to PIN4 Cu4: +24 V switched
yellow RAL 1021		Actuator-sensor cable: e.g. proximity switches, valves 4 x 0.34 mm ² , prefabricated with two M12 connectors, without LED	1: 24 V 2: signal (digital input) 3: 0 V 4: signal (analogue input or digital output)
black RAL 9005		Power cable: e.g. three-phase AC motors 5 x 1,5 mm ² or case specific design	
grey RAL 7040		Control cable: 24 V technology, e.g. control voltage, power supply multiwire, case specific design	

The wiring has to be resistant against cooling lubricants used in industrial applications.

DESINA[®] is an abbreviation for *DistributEd* and *Standardized INstAllation* technology for machine tools and manufacturing systems. *DESINA* is a specification for standardising electrical, hydraulic and pneumatic components and their interconnection on one common platform for CNC-controlled machine tools and manufacturing systems. The Association of German Machine Tool Factories (VDW) contracted a research and development project “Installation Technology in Machine Tools,” carried out by the Institute for Machine Tools and business management (iwb) at the Technical University of Munich. The working group assisting the project consisted of representatives from the car manufacturing industry as well as the component suppliers and machine tool industries. The specification also includes the standardisation for outer sheath colours on cables for specific applications. ConCab kabel is a specified supplier of *DESINA*[®] conforming products and can be found on the internet site of *DESINA*[®].



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	Power Cables not Shielded	CC-Servo PVC-586	84
		CC-Servoflex PUR-580	96
		CC-BUS AS-Interface, black	132
	Control Cables	CC-Schleppflex [®] PVC-570  and 	22
		CC-Schleppflex [®] PUR-575  and 	44
		CC-Control cable H05VV5-F-115	174
		CC-Control cable H-1110 halogen-free	213
		CC-Control cable H-1111 halogen-free	218
		CC-Zweinorm PVC-167  and 	178
CC-Zweinorm PUR-141  and 	200		

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Register

Power chain cable, servo-, sensor and feedback cable Robotic cable, cable for Fieldbus	Page 18 - 141
PVC control cable, shielded and unshielded, with and without approvals	Page 144 - 196
PUR control cable, shielded and unshielded, with and without approvals; halogen-free cable	Page 198 - 219
Data cable, shielded and unshielded, Halogen-free data cable	Page 222 - 268
Computer cable	Page 270 - 290
LAN-(CAT), coax-, monitor- and fibre optic cable	Page 292 - 311
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Single core, with and without approvals	Page 446 - 459

CC-Schleppflex® PVC-570

High flexible data cable

Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Schleppflex-570 CE

CC-Schleppflex PVC-570 is used as a data- and signal cable for power supply chains, sensor technology, computers and control devices for measurement and control technology. It can be used in damp and wet areas but not outdoors. A long service life is achieved by the special structure and PVC mixture of the cable.

Construction

Superfine bare strands of copper wire, PVC core insulation, core colours acc. to DIN 47100. Cores twisted in layers with very short lay lengths, fleece, PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to + 70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt):	250	250	250
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
570 0001 002	2 × 0,14	2,8	4,0	23
570 0001 003	3 × 0,14	4,2	4,5	26
570 0001 004	4 × 0,14	5,6	4,8	31
570 0001 005	5 × 0,14	7,0	5,1	35
570 0001 007	7 × 0,14	9,8	6,2	50
570 0001 010	10 × 0,14	14,0	7,2	63
570 0001 012	12 × 0,14	16,8	7,3	71
570 0001 014	14 × 0,14	19,6	7,5	77
570 0001 018	18 × 0,14	25,2	8,0	91
570 0001 025	25 × 0,14	35,0	9,5	125
570 0002 002	2 × 0,25	5,0	4,5	28
570 0002 003	3 × 0,25	7,5	4,9	33
570 0002 004	4 × 0,25	10,0	5,3	40
570 0002 005	5 × 0,25	12,5	6,2	51
570 0002 007	7 × 0,25	17,5	7,0	64
570 0002 010	10 × 0,25	25,0	8,2	84
570 0002 012	12 × 0,25	30,1	8,3	95
570 0002 014	14 × 0,25	35,0	8,5	107
570 0002 018	18 × 0,25	45,0	9,5	130
570 0002 025	25 × 0,25	62,5	11,0	178
570 0003 002	2 × 0,34	6,8	5,0	33
570 0003 003	3 × 0,34	10,2	5,7	43
570 0003 004	4 × 0,34	13,6	6,5	57
570 0003 005	5 × 0,34	17,0	7,0	65
570 0003 007	7 × 0,34	23,8	8,0	85
570 0003 010	10 × 0,34	34,0	9,4	117
570 0003 012	12 × 0,34	40,8	9,6	133
570 0003 014	14 × 0,34	47,6	10,0	151
570 0003 018	18 × 0,34	61,2	11,0	182
570 0003 025	25 × 0,34	85,0	13,0	250

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-570

High flexible data cable

Conforms to EU low-voltage guideline 73/23/EEC CE

 and 

ConCab kabel Mainhardt - 570 18 x 0,34 E 172073 cUL AWM STYLE 2464 300 V 80°C CE

CC-Schleppflex PVC-570 UL/CSA is used as a data- and signal cable for power supply chains, sensor technology, computers and control devices for measurement and control technology. It can be used in damp and wet areas but not outdoors. A long service life is achieved by the special structure and PVC mixture of the cable.

Construction

Superfine bare strands of copper wire, TPE core insulation, core colours acc. to DIN 47100. Cores twisted in layers with very short lay lengths, fleece, PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-5°C to + 80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0281, 0812
UL: Style 2464
CSA: C 22.2 N 210.2-M90 FT1

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt) VDE / UL, CSA:	300	300	300
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world



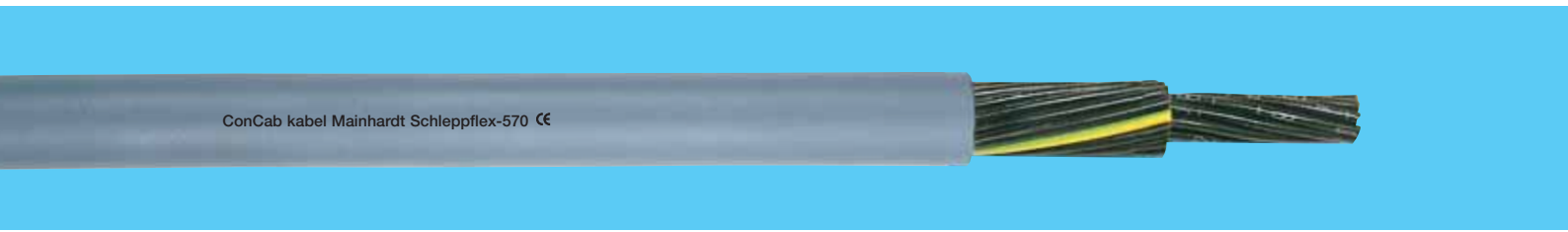
Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
570 26 02	2 × 0,14	2 × AWG 26	2,8	3,5	15
570 26 03	3 × 0,14	3 × AWG 26	4,2	3,7	16
570 26 04	4 × 0,14	4 × AWG 26	5,6	3,9	19
570 26 05	5 × 0,14	5 × AWG 26	7,0	4,2	22
570 26 07	7 × 0,14	7 × AWG 26	9,9	4,6	29
570 26 10	10 × 0,14	10 × AWG 26	14,1	5,3	35
570 26 12	12 × 0,14	12 × AWG 26	16,9	5,5	40
570 26 14	14 × 0,14	14 × AWG 26	19,7	5,7	44
570 26 18	18 × 0,14	18 × AWG 26	25,3	6,2	55
570 26 25	25 × 0,14	25 × AWG 26	35,2	7,3	77
570 24 02	2 × 0,25	2 × AWG 24	5,0	3,9	20
570 24 03	3 × 0,25	3 × AWG 24	7,5	4,1	21
570 24 04	4 × 0,25	4 × AWG 24	10,0	4,4	25
570 24 05	5 × 0,25	5 × AWG 24	12,5	4,7	30
570 24 07	7 × 0,25	7 × AWG 24	17,6	5,3	40
570 24 10	10 × 0,25	10 × AWG 24	25,1	6,1	50
570 24 12	12 × 0,25	12 × AWG 24	30,1	6,3	57
570 24 14	14 × 0,25	14 × AWG 24	35,1	6,7	66
570 24 18	18 × 0,25	18 × AWG 24	45,1	7,3	83
570 24 25	25 × 0,25	25 × AWG 24	62,7	8,6	114
570 22 02	2 × 0,34	2 × AWG 22	6,6	4,1	23
570 22 03	3 × 0,34	3 × AWG 22	9,9	4,3	25
570 22 04	4 × 0,34	4 × AWG 22	13,2	4,6	30
570 22 05	5 × 0,34	5 × AWG 22	16,5	5,0	35
570 22 07	7 × 0,34	7 × AWG 22	23,1	5,6	48
570 22 10	10 × 0,34	10 × AWG 22	33,0	6,6	62
570 22 12	12 × 0,34	12 × AWG 22	39,6	6,8	71
570 22 14	14 × 0,34	14 × AWG 22	46,2	7,1	80
570 22 18	18 × 0,34	18 × AWG 22	59,4	7,8	100
570 22 25	25 × 0,34	25 × AWG 22	82,5	9,6	148

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-570

High flexible control cable
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PVC-570 has been developed as a control cable for use in power supply chains. The increasing demand in industrial automation requires cables with narrow bending radius. CC-Schleppflex meets this requirement due to its praxis-oriented development. A long service life is achieved by the special structure and compounds of the cable. It can be used in damp and wet areas but not outdoors.

Construction

Superfine strands of bare copper wire, PVC core insulation, cores black with consecutive white numbering. Cables with 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in layers in very short lay lengths, fleece. PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



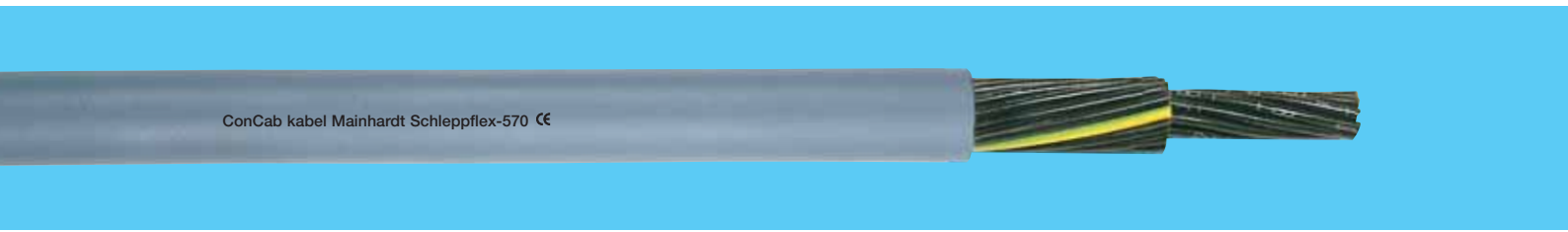
Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
570 0005 002	2 X 0,5	9,6	5,3	36	570 0010 016	16 G 1,0	153,0	14,4	288
570 0005 003	3 G 0,5	14,4	5,6	44	570 0010 018	18 G 1,0	173,0	15,2	325
570 0005 004	4 G 0,5	19,2	6,4	53	570 0010 025	25 G 1,0	240,0	18,3	481
570 0005 005	5 G 0,5	24,0	7,1	64	570 0010 034	34 G 1,0	326,0	21,3	635
570 0005 007	7 G 0,5	34,0	8,3	95	570 0010 041	41 G 1,0	394,0	23,1	805
570 0005 012	12 G 0,5	58,0	10,0	129	570 0010 050	50 G 1,0	480,0	24,8	879
570 0005 014	14 G 0,5	67,0	10,6	144	570 0010 065	65 G 1,0	624,0	28,9	1221
570 0005 018	18 G 0,5	86,4	11,7	194					
570 0005 025	25 G 0,5	120,0	13,7	278	570 0015 002	2 X 1,5	29,0	7,5	67
570 0005 030	30 G 0,5	144,0	14,9	313	570 0015 003	3 G 1,5	43,0	7,9	83
570 0005 034	34 G 0,5	163,2	16,1	358	570 0015 004	4 G 1,5	58,0	8,8	106
570 0005 042	42 G 0,5	202,0	18,3	432	570 0015 005	5 G 1,5	72,0	9,9	134
570 0005 050	50 G 0,5	240,0	18,6	527	570 0015 007	7 G 1,5	101,0	11,8	173
					570 0015 012	12 G 1,5	173,0	13,6	313
570 0007 002	2 X 0,75	14,4	5,9	43	570 0015 014	14 G 1,5	203,0	14,2	350
570 0007 003	3 G 0,75	21,6	6,2	51	570 0015 016	16 G 1,5	232,0	15,3	426
570 0007 004	4 G 0,75	29,0	7,2	66	570 0015 018	18 G 1,5	257,0	16,2	525
570 0007 005	5 G 0,75	36,0	7,9	84	570 0015 025	25 G 1,5	357,0	19,9	684
570 0007 007	7 G 0,75	50,0	9,3	105	570 0015 030	30 G 1,5	429,0	21,0	799
570 0007 012	12 G 0,75	86,0	11,2	180	570 0015 034	34 G 1,5	490,0	22,7	891
570 0007 016	16 G 0,75	115,2	12,5	251	570 0015 041	41 G 1,5	591,0	24,7	1061
570 0007 018	18 G 0,75	130,0	13,2	260	570 0015 042	42 G 1,5	605,0	24,7	1075
570 0007 025	25 G 0,75	180,0	15,9	340	570 0015 050	50 G 1,5	720,0	26,5	1325
570 0007 030	30 G 0,75	216,0	17,3	398	570 0015 061	61 G 1,5	878,0	28,0	1578
570 0007 034	34 G 0,75	245,0	18,5	443	570 0015 065	65 G 1,5	936,0	31,0	1672
570 0007 042	42 G 0,75	302,0	19,0	510					
570 0007 050	50 G 0,75	360,0	21,5	587	570 0025 003	3 G 2,5	72,0	10,0	132
					570 0025 004	4 G 2,5	96,0	11,1	195
570 0010 002	2 X 1,0	19,2	7,1	58	570 0025 005	5 G 2,5	120,0	12,3	242
570 0010 003	3 G 1,0	29,0	7,4	74	570 0025 007	7 G 2,5	168,0	15,5	346
570 0010 004	4 G 1,0	38,4	8,1	89	570 0025 012	12 G 2,5	288,0	17,6	516
570 0010 005	5 G 1,0	48,0	9,3	100	570 0025 014	14 G 2,5	336,0	18,6	586
570 0010 007	7 G 1,0	67,0	11,1	129	570 0025 018	18 G 2,5	432,0	21,1	824
570 0010 012	12 G 1,0	115,0	12,8	241	570 0025 025	25 G 2,5	600,0	25,0	988
570 0010 014	14 G 1,0	134,0	13,6	259					

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-570

High flexible control cable
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PVC-570 has been developed as a control cable for use in power supply chains. The increasing demand in industrial automation requires cables with narrow bending radius.

CC-Schleppflex meets this requirement due to its practice-oriented development. A long service life is achieved by the special structure and compounds of the cable. It can be used in damp and wet areas but not outdoors.

Construction

Superfine strands of bare copper wire, PVC core insulation, cores black with consecutive white numbering. Cables with 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in layers in very short lay lengths, fleece. PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
570 0040 003	3 G 4	115,2	12,9	228
570 0040 004	4 G 4	154,0	13,9	283
570 0040 005	5 G 4	192,0	15,6	377
570 0040 007	7 G 4	269,0	18,1	516
570 0060 99	1 G 6	57,6	6,6	65
570 0060 003	3 G 6	173,0	14,2	334
570 0060 004	4 G 6	230,0	16,5	505
570 0060 005	5 G 6	288,0	18,9	613
570 0060 007	7 G 6	403,0	21,8	846
570 0100 003	3 G 10	288,0	18,5	624
570 0100 004	4 G 10	384,0	20,8	756
570 0100 005	5 G 10	480,0	22,7	939
570 0100 007	7 G 10	672,0	24,1	1236
570 0160 004	4 G 16	614,0	24,2	1116
570 0160 005	5 G 16	768,0	27,3	1408

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

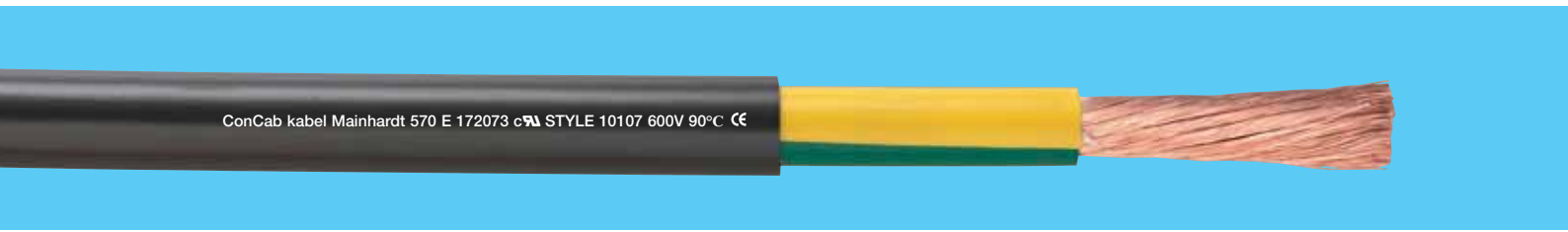
ConCab kabel connects the world

CC-Schleppflex® PVC-570

High flexible single core cable

Conforms to EU low-voltage guideline 73/23/EEC CE

 and 



Technical data

Rated voltage:

VDE/IEC: 600/1000 V

UL/CSA: 600 V

Test voltage:

4000 V

Conductor stranding:

bare superfine copper strands
acc. to UL 1581, Tab. 20.1

Insulation resistance:

min. 200 MOhm × km

Temperature range:

fixed installation: -40°C to +90°C

flexible application: -5°C to +90°C

Bending radius:

fixed installation: 3 × cable diameter

flexible application: 7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281

UL: Style 10107

CSA: AWM I A/B, II A/B FT1

CC-Schleppflex PVC-570 UL/CSA single core, has been developed as a control cable for use in power supply chains. The increasing demand in industrial automation requires cables with narrow bending radius. CC-Schleppflex meets this requirement due to its practice-oriented development. A long service life is achieved by the special structure and compounds of the cable. It can be used in damp and wet areas.

Construction

Superfine strands of bare copper wire, PVC black or green/yellow core insulation. PVC outer sheath, UV resistant, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black (RAL 9005).

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	AWG	Copper weight kg/km	Outer dia- meter approx. mm	Weight kg/km
570 0801 00	1 X 10	AWG 8	96	9,0	180
570 0801 99	1 G 10	AWG 8	96	9,0	180
570 0601 00	1 X 16	AWG 6	153	10,1	221
570 0601 99	1 G 16	AWG 6	153	10,1	221
570 0401 00	1 X 25	AWG 4	240	11,3	336
570 0401 99	1 G 25	AWG 4	240	11,3	336
570 0201 00	1 X 35	AWG 2	336	14,5	500
570 0201 99	1 G 35	AWG 2	336	14,5	500
570 01001 00	1 X 50	AWG 1/0	480	16,3	720
570 01001 99	1 G 50	AWG 1/0	480	16,3	720
570 02001 00	1 X 70	AWG 2/0	672	17,5	850
570 02001 99	1 G 70	AWG 2/0	672	17,5	850
570 03001 00	1 X 95	AWG 3/0	798	19,6	1100
570 03001 99	1 G 95	AWG 3/0	798	19,6	1100
570 04001 00	1 X 120	AWG 4/0	1006	22,4	1420
570 04001 99	1 G 120	AWG 4/0	1006	22,4	1420

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-570

High flexible control cable
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 570 - 18 G 1,5 E 172073 cUL STYLE 2587 AWM 600V 90°C CE

CC-Schleppflex PVC-570 UL/CSA has been developed as a control cable for use in power supply chains. The increasing demand in industrial automation requires cables with narrow bending radius. CC-Schleppflex meets this requirement due to its practice-oriented development. A long service life is achieved by the special structure and compounds of the cable. It can be used in damp and wet areas.

Construction

Superfine strands of bare copper wire, PVC core insulation, core colours are black with consecutive white numbering. Cables with 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in layers in very short lay lengths, fleece. PVC outer sheath, UV resistant, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black (RAL 9005).
Red or blue core colours upon request.

Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:
4000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +90°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281
UL: Style 2587
CSA: AWM I A/B, II A/B FT1

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer dia- meter approx. mm	Weight kg/km
570 20 03	3 G 0,5	3 × AWG 20	14,4	6,5	52
570 20 04	4 G 0,5	4 × AWG 20	19,2	7,4	67
570 20 05	5 G 0,5	5 × AWG 20	24,0	8,1	82
570 20 07	7 G 0,5	7 × AWG 20	34,0	9,4	121
570 20 12	12 G 0,5	12 × AWG 20	58,0	11,5	170
570 20 18	18 G 0,5	18 × AWG 20	86,4	13,3	256
570 20 25	25 G 0,5	25 × AWG 20	120,0	16,3	357
570 19 02	2 X 0,75	2 × AWG 19	14,4	6,9	62
570 19 03	3 G 0,75	3 × AWG 19	21,6	7,2	69
570 19 04	4 G 0,75	4 × AWG 19	29,0	8,0	88
570 19 05	5 G 0,75	5 × AWG 19	36,0	8,6	110
570 19 07	7 G 0,75	7 × AWG 19	50,0	10,4	155
570 19 12	12 G 0,75	12 × AWG 19	86,0	12,2	220
570 19 16	16 G 0,75	16 × AWG 19	116,0	14,0	300
570 19 18	18 G 0,75	18 × AWG 19	130,0	14,9	330
570 19 25	25 G 0,75	25 × AWG 19	180,0	17,7	470
570 18 02	2 X 1,0	2 × AWG 18	19,2	7,5	75
570 18 03	3 G 1,0	3 × AWG 18	29,0	7,6	81
570 18 04	4 G 1,0	4 × AWG 18	38,4	8,2	97
570 18 05	5 G 1,0	5 × AWG 18	48,0	8,9	118
570 18 07	7 G 1,0	7 × AWG 18	67,0	10,8	177
570 18 12	12 G 1,0	12 × AWG 18	115,0	13,6	265
570 18 16	16 G 1,0	16 × AWG 18	145,0	14,5	320
570 18 18	18 G 1,0	18 × AWG 18	173,0	15,8	380
570 18 25	25 G 1,0	25 × AWG 18	240,0	18,9	530
570 18 34	34 G 1,0	34 × AWG 18	326,0	21,3	722
570 18 41	41 G 1,0	41 × AWG 18	393,0	24,1	920
570 18 50	50 G 1,0	50 × AWG 18	480,0	25,1	1190
570 16 03	3 G 1,5	3 × AWG 16	43,2	8,2	93
570 16 04	4 G 1,5	4 × AWG 16	57,6	9,0	125
570 16 05	5 G 1,5	5 × AWG 16	72,0	10,0	155
570 16 07	7 G 1,5	7 × AWG 16	100,8	11,9	228
570 16 12	12 G 1,5	12 × AWG 16	172,8	14,4	337
570 16 16	16 G 1,5	16 × AWG 16	230,0	15,9	433
570 16 18	18 G 1,5	18 × AWG 16	259,2	16,8	513
570 16 25	25 G 1,5	25 × AWG 16	360,0	20,8	712
570 16 34	34 G 1,5	34 × AWG 16	489,6	23,3	965
570 16 42	42 G 1,5	42 × AWG 16	605,0	26,5	1185
570 16 50	50 G 1,5	50 × AWG 16	720,0	27,6	1420
570 14 03	3 G 2,5	3 × AWG 14	72,0	10,5	165
570 14 04	4 G 2,5	4 × AWG 14	96,0	11,4	200
570 14 05	5 G 2,5	5 × AWG 14	120,0	12,5	240
570 14 07	7 G 2,5	7 × AWG 14	168,0	15,1	350
570 14 12	12 G 2,5	12 × AWG 14	288,0	18,8	650
570 12 03	3 G 4	3 × AWG 12	115,2	11,4	255
570 12 04	4 G 4	4 × AWG 12	153,6	12,8	372
570 12 05	5 G 4	5 × AWG 12	192,0	14,3	389
570 12 07	7 G 4	7 × AWG 12	268,8	17,4	505
570 10 04	4 G 6	4 × AWG 10	230,4	14,3	631
570 08 04	4 G 10	4 × AWG 8	384,0	18,9	800
570 06 04	4 G 16	4 × AWG 6	614,4	24,6	1032

CC-Schleppflex® PVC-C-573

High flexible data cable, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt Schleppflex-C-573 CE

CC-Schleppflex PVC-C-573 shielded with PVC outer sheath is used as a data- and signal cable in power supply chains, sensor technology, computers and for control devices of instrument and control engineering.

It can be used in damp and wet areas but not outdoors. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. A long service life is achieved by the special structure and PVC mixture of the CC-Schleppflex.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, core colours acc. to DIN 47100, cores twisted in layers in short lay lengths, fleece. Tinned copper shield. PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt):	250	250	250
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
573 0001 002	2 × 0,14	11,4	5,0	31
573 0001 003	3 × 0,14	14,3	5,1	35
573 0001 004	4 × 0,14	15,4	5,3	43
573 0001 005	5 × 0,14	18,5	5,8	48
573 0001 007	7 × 0,14	27,9	6,8	69
573 0001 010	10 × 0,14	40,1	7,7	89
573 0001 012	12 × 0,14	43,0	7,9	99
573 0001 014	14 × 0,14	45,8	8,1	108
573 0001 018	18 × 0,14	54,4	9,0	125
573 0001 025	25 × 0,14	68,8	10,7	168
573 0002 002	2 × 0,25	15,1	5,4	40
573 0002 003	3 × 0,25	18,6	5,7	44
573 0002 004	4 × 0,25	21,5	6,1	54
573 0002 005	5 × 0,25	31,4	6,7	69
573 0002 007	7 × 0,25	39,9	7,6	91
573 0002 010	10 × 0,25	53,5	8,8	117
573 0002 012	12 × 0,25	58,7	9,0	131
573 0002 014	14 × 0,25	64,8	9,2	144
573 0002 018	18 × 0,25	79,2	9,9	163
573 0002 025	25 × 0,25	103,0	12,0	218
573 0003 002	2 × 0,34	16,4	6,0	48
573 0003 003	3 × 0,34	28,2	6,3	65
573 0003 004	4 × 0,34	35,4	6,4	78
573 0003 005	5 × 0,34	40,0	7,5	87
573 0003 007	7 × 0,34	51,9	8,5	121
573 0003 010	10 × 0,34	68,2	10,5	161
573 0003 012	12 × 0,34	77,5	10,7	180
573 0003 014	14 × 0,34	86,7	10,9	199
573 0003 018	18 × 0,34	100,2	11,5	218
573 0003 025	25 × 0,34	153,1	13,3	335

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-C-573

High flexible data cable, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE

 and 



ConCab kabel Mainhardt Schleppflex-C-573 12 x 0,25 E172073 cUL STYLE 2464 300V 80°C CE

CC-Schleppflex PVC-C-573 shielded UL/CSA with PVC outer sheath is used as a data- and signal cable in power supply chains, sensor technology, computers and for control devices of instrument and control engineering. It can be used in damp and wet areas but not outdoors. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. A long service life is achieved by the special structure and PVC mixture of the CC-Schleppflex.

Construction

Superfine strands of bare copper wire, TPE based core insulation, core colours acc. to DIN 47100, cores twisted in layers in short lay lengths, fleece. Tinned copper shield. PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-5°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0281, 0812
UL: 2464
CSA: C 22.2 N 210.2-M90 FT1

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt) VDE / UL, CSA:	300	300	300
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

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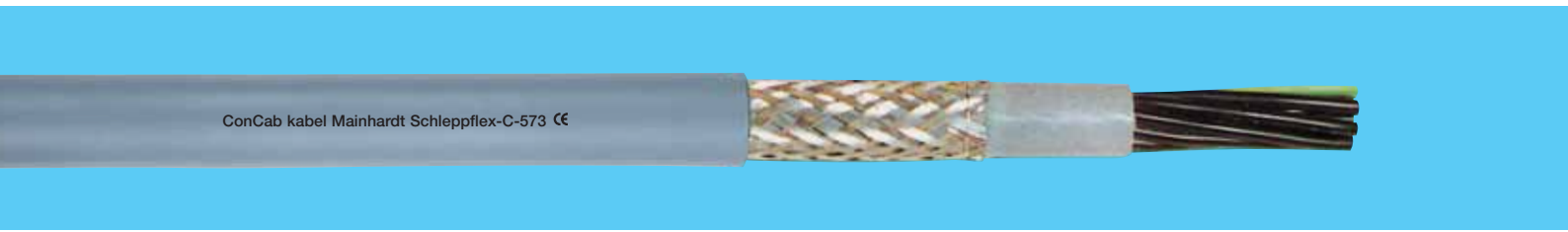
Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
573 26 02	2 × 0,14	2 × AWG 26	5,5	3,9	20
573 26 03	3 × 0,14	3 × AWG 26	6,9	4,1	20
573 26 04	4 × 0,14	4 × AWG 26	8,3	4,3	23
573 26 05	5 × 0,14	5 × AWG 26	9,7	4,6	26
573 26 07	7 × 0,14	7 × AWG 26	12,6	5,0	33
573 26 10	10 × 0,14	10 × AWG 26	16,8	5,7	40
573 26 12	12 × 0,14	12 × AWG 26	19,6	5,9	44
573 26 14	14 × 0,14	14 × AWG 26	22,4	6,1	49
573 26 18	18 × 0,14	18 × AWG 26	28,0	6,7	61
573 26 25	25 × 0,14	25 × AWG 26	37,9	7,7	82
573 24 02	2 × 0,25	2 × AWG 24	11,7	4,3	28
573 24 03	3 × 0,25	3 × AWG 24	14,7	4,5	30
573 24 04	4 × 0,25	4 × AWG 24	18,0	4,8	35
573 24 05	5 × 0,25	5 × AWG 24	21,4	5,1	40
573 24 07	7 × 0,25	7 × AWG 24	28,1	5,7	52
573 24 10	10 × 0,25	10 × AWG 24	37,9	6,6	66
573 24 12	12 × 0,25	12 × AWG 24	43,4	6,8	73
573 24 14	14 × 0,25	14 × AWG 24	49,2	7,1	82
573 24 18	18 × 0,25	18 × AWG 24	61,0	7,7	100
573 24 25	25 × 0,25	25 × AWG 24	86,4	9,5	148
573 22 02	2 × 0,34	2 × AWG 22	13,8	4,5	31
573 22 03	3 × 0,34	3 × AWG 22	17,6	4,7	34
573 22 04	4 × 0,34	4 × AWG 22	21,7	5,0	39
573 22 05	5 × 0,34	5 × AWG 22	26,0	5,4	46
573 22 07	7 × 0,34	7 × AWG 22	34,4	6,0	61
573 22 10	10 × 0,34	10 × AWG 22	46,8	7,0	77
573 22 12	12 × 0,34	12 × AWG 22	53,9	7,2	86
573 22 14	14 × 0,34	14 × AWG 22	61,3	7,5	97
573 22 18	18 × 0,34	18 × AWG 22	80,8	8,3	124
573 22 25	25 × 0,34	25 × AWG 22	108,7	10,1	176

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-C-573

High flexible control cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PVC-C-573 shielded with PVC outer sheath, is used as a control cable in mobile power supply chains, sensor technology, computers and for control devices of instrument and control engineering.

It can be used in damp and wet areas but not outdoors. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. A long service life is achieved by the special structure and PVC mixture of CC-Schleppflex.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, cores are black with consecutive white numbering. Cables with 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in layers in short lay lengths, fleece. Tinned copper shield. PVC outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Applications:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
573 0005 002	2 X 0,5	39	7,5	79	573 0010 002	2 X 1,0	59	9,9	116
573 0005 003	3 G 0,5	44	7,8	83	573 0010 003	3 G 1,0	73	10,2	144
573 0005 004	4 G 0,5	52	8,2	92	573 0010 004	4 G 1,0	86	10,9	168
573 0005 005	5 G 0,5	63	9,3	116	573 0010 005	5 G 1,0	104	11,7	190
573 0005 007	7 G 0,5	80	10,7	158	573 0010 007	7 G 1,0	129	13,5	245
573 0005 012	12 G 0,5	128	12,4	220	573 0010 012	12 G 1,0	196	15,5	365
573 0005 014	14 G 0,5	141	12,8	251	573 0010 016	16 G 1,0	242	17,1	424
573 0005 016	16 G 0,5	150	13,6	278	573 0010 018	18 G 1,0	288	17,9	505
573 0005 018	18 G 0,5	164	14,4	305	573 0010 025	25 G 1,0	372	21,0	667
573 0005 025	25 G 0,5	210	16,4	392	573 0010 034	34 G 1,0	521	23,8	848
573 0005 030	30 G 0,5	238	17,4	437	573 0010 041	41 G 1,0	618	26,1	1015
573 0005 034	34 G 0,5	264	18,6	518	573 0010 050	50 G 1,0	698	27,9	1217
573 0005 036	36 G 0,5	279	18,6	535	573 0010 065	65 G 1,0	868	32,3	1510
573 0005 042	42 G 0,5	324	19,7	602					
573 0005 050	50 G 0,5	372	21,7	716	573 0015 002	2 X 1,5	74	10,3	130
573 0005 061	61 G 0,5	443	23,8	810	573 0015 003	3 G 1,5	96	10,7	168
					573 0015 004	4 G 1,5	116	11,4	206
573 0007 002	2 X 0,75	39	8,1	87	573 0015 005	5 G 1,5	133	12,3	245
573 0007 031	3 X 0,75	52	8,4	95	573 0015 007	7 G 1,5	175	14,5	345
573 0007 003	3 G 0,75	52	8,4	95	573 0015 012	12 G 1,5	262	16,3	458
573 0007 004	4 G 0,75	66	9,4	127	573 0015 016	16 G 1,5	333	19,3	528
573 0007 005	5 G 0,75	82	10,3	143	573 0015 018	18 G 1,5	377	20,3	635
573 0007 007	7 G 0,75	107	12,1	201	573 0015 025	25 G 1,5	507	23,2	985
573 0007 012	12 G 0,75	168	13,6	283					
573 0007 014	14 G 0,75	187	13,9	311	573 0025 003	3 G 2,5	124	12,8	254
573 0007 016	16 G 0,75	203	15,0	342	573 0025 004	4 G 2,5	154	13,7	318
573 0007 018	18 G 0,75	221	15,9	394	573 0025 005	5 G 2,5	185	15,2	387
573 0007 025	25 G 0,75	275	18,6	515	573 0025 007	7 G 2,5	253	17,6	498
573 0007 030	30 G 0,75	356	19,9	644					
573 0007 034	34 G 0,75	387	21,0	686	573 0040 003	3 G 4	178	15,5	374
573 0007 036	36 G 0,75	429	21,0	720	573 0040 004	4 G 4	221	16,6	446
573 0007 042	42 G 0,75	474	22,4	795	573 0040 005	5 G 4	270	17,9	547
573 0007 050	50 G 0,75	539	23,7	899	573 0040 007	7 G 4	370	21,1	718
573 0007 061	61 G 0,75	641	26,7	1042					
					573 0060 004	4 G 6	312	18,9	596
					573 0060 005	5 G 6	398	20,5	762
					573 0060 007	7 G 6	532	23,7	890
					573 0100 004	4 G 10	496	22,7	890
					573 0100 005	5 G 10	686	24,5	1016
					573 0160 004	4 G 16	759	25,4	1374
					573 0160 005	5 G 16	1024	28,0	1831

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world



CC-Schleppflex® PVC-C-573

High flexible single core cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 573 E172073 cUL STYLE 10107 600V 90°C CE

Technical data

Rated voltage:

VDE/IEC: 600/1000 V
UL/CSA: 600 V

Test voltage:

4000 V

Conductor stranding:

bare superfine copper strands
acc. to UL 1581, Tab. 20.1

Insulation resistance:

min. 200 MOhm × km

Temperature range:

fixed installation: -40°C to +90°C
flexible application: -5°C to +90°C

Bending radius:

fixed installation: 3 × cable diameter
flexible application: 7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281
UL: Style 10107
CSA: AWM I A/B, II A/B FT1

CC-Schleppflex PVC-C-573 UL/CSA and acc. to *DESINA*®-standard, single core shielded with PVC outer sheath, is used as a control cable in power supply chains. It can be used in damp and wet areas. The overall copper shield ensures exact signal transmission and protects the cable against electromagnetic disturbances and influences. A long service life is achieved by the special structure and PVC mixture of CC-Schleppflex.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, black or green/yellow core, tinned copper shield, fleece. PVC-based outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour orange (RAL 2003).

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
573 0801 00	1 X 10	AWG 8	127	9,5	210
573 0801 99	1 G 10	AWG 8	127	9,5	210
573 0601 00	1 X 16	AWG 6	161	10,6	273
573 0601 99	1 G 16	AWG 6	161	10,6	273
573 0401 00	1 X 25	AWG 4	246	11,9	370
573 0401 99	1 G 25	AWG 4	246	11,9	370
573 0201 00	1 X 35	AWG 2	355	15,1	585
573 0201 99	1 G 35	AWG 2	355	15,1	585
573 01001 00	1 X 50	AWG 1/0	553	16,9	802
573 01001 99	1 G 50	AWG 1/0	553	16,9	802
573 02001 00	1 X 70	AWG 2/0	688	18,1	935
573 02001 99	1 G 70	AWG 2/0	688	18,1	935
573 03001 00	1 X 95	AWG 3/0	881	20,4	1280
573 03001 99	1 G 95	AWG 3/0	881	20,4	1280
573 04001 00	1 X 120	AWG 4/0	1088	23,2	1500
573 04001 99	1 G 120	AWG 4/0	1088	23,2	1500



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PVC-C-573



High flexible control cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 573 12 G 1,0 E 172073 eUL STYLE 2587 AWM 600V 90°C CE

CC-Schleppflex PVC-C-573 UL/CSA shielded with PVC outer sheath, is used as a control cable in power supply chains, sensor technology, computers and for control devices of instrument and control engineering.

It can be used in damp and wet areas. The overall copper shield ensures exact signal transmission and protects the cable against electromagnetic disturbances and influences. A long service life is achieved by the special structure and PVC mixture of CC-Schleppflex.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, cores are black with consecutive white numbering. Cables with 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in layers in short lay lengths, fleece. PVC inner sheath, tinned copper shield, fleece. PVC-based outer sheath, UV resistant, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black (RAL 9005). Red and blue core colours upon request.

Technical data

Rated voltage:

VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:

4000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 20 MOhm × km

Temperature range:

-5°C to +90°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281
UL: Style 2587
CSA: AWM I A/B, II A/B FT1

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
573 20 03	3 G 0,5	3 × AWG 20	39,1	8,8	100
573 20 04	4 G 0,5	4 × AWG 20	47,3	9,0	121
573 20 05	5 G 0,5	5 × AWG 20	55,3	9,6	142
573 20 07	7 G 0,5	7 × AWG 20	81,1	11,5	200
573 20 12	12 G 0,5	12 × AWG 20	114,7	13,4	280
573 20 18	18 G 0,5	18 × AWG 20	160,1	15,9	403
573 20 25	25 G 0,5	25 × AWG 20	204,0	18,5	533
573 19 02	2 X 0,75	2 × AWG 19	48,0	9,0	125
573 19 03	3 G 0,75	3 × AWG 19	63,0	9,7	140
573 19 04	4 G 0,75	4 × AWG 19	71,0	10,3	157
573 19 05	5 G 0,75	5 × AWG 19	87,0	11,0	180
573 19 07	7 G 0,75	7 × AWG 19	108,0	13,0	260
573 19 12	12 G 0,75	12 × AWG 19	158,0	14,7	330
573 19 16	16 G 0,75	16 × AWG 19	185,0	17,0	400
573 19 18	18 G 0,75	18 × AWG 19	238,0	18,0	490
573 19 25	25 G 0,75	25 × AWG 19	316,0	21,7	600
573 18 02	2 X 1,0	2 × AWG 18	60,0	9,2	136
573 18 03	3 G 1,0	3 × AWG 18	70,0	9,7	150
573 18 04	4 G 1,0	4 × AWG 18	89,0	10,6	175
573 18 05	5 G 1,0	5 × AWG 18	100,0	11,4	205
573 18 07	7 G 1,0	7 × AWG 18	126,0	13,3	285
573 18 12	12 G 1,0	12 × AWG 18	189,0	16,0	380
573 18 16	16 G 1,0	16 × AWG 18	231,0	17,4	500
573 18 18	18 G 1,0	18 × AWG 18	300,0	18,1	565
573 18 25	25 G 1,0	25 × AWG 18	380,0	22,2	740
573 18 34	34 G 1,0	34 × AWG 18	519,0	25,2	975
573 18 41	41 G 1,0	41 × AWG 18	608,0	27,4	1068
573 18 50	50 G 1,0	50 × AWG 18	690,0	28,8	1220
573 16 03	3 G 1,5	3 × AWG 16	75,0	9,8	158
573 16 04	4 G 1,5	4 × AWG 16	94,2	11,0	201
573 16 05	5 G 1,5	5 × AWG 16	101,1	11,8	227
573 16 07	7 G 1,5	7 × AWG 16	166,0	14,0	349
573 16 12	12 G 1,5	12 × AWG 16	247,0	16,6	489
573 16 16	16 G 1,5	16 × AWG 16	300,0	17,6	678
573 16 18	18 G 1,5	18 × AWG 16	375,0	20,0	740
573 16 25	25 G 1,5	25 × AWG 16	490,0	23,3	981
573 16 34	34 G 1,5	34 × AWG 16	663,0	26,9	1321
573 16 42	42 G 1,5	42 × AWG 16	830,0	30,0	1377
573 16 50	50 G 1,5	50 × AWG 16	950,0	31,0	1560
573 14 03	3 G 2,5	3 × AWG 14	104,0	11,5	214
573 14 04	4 G 2,5	4 × AWG 14	162,0	12,7	334
573 14 05	5 G 2,5	5 × AWG 14	185,0	13,9	354
573 14 07	7 G 2,5	7 × AWG 14	242,0	16,8	503
573 14 12	12 G 2,5	12 × AWG 14	404,0	20,0	746
573 12 03	3 G 4	3 × AWG 12	158,0	13,0	296
573 12 04	4 G 4	4 × AWG 12	218,0	14,8	404
573 12 05	5 G 4	5 × AWG 12	267,0	16,4	498
573 12 07	7 G 4	7 × AWG 12	373,0	19,5	717
573 10 04	4 G 6	4 × AWG 10	305,0	16,9	541
573 08 04	4 G 10	4 × AWG 8	501,0	21,3	881
573 06 04	4 G 16	4 × AWG 6	804,0	25,9	1405

CC-Schleppflex® PUR-575

High flexible data cable

Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Schleppflex-575 CE

CC-Schleppflex PUR-575 is used as a data- and signal cable for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. It can be used in- and outdoors and in damp and wet areas. It is suitable in areas where aggressive mineral oils occur and where strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire. PVC-based core insulation, core colours acc. to DIN 47100. Cores are twisted in layers in very short lay lengths, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281, 0812

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt):	250	250	250
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world



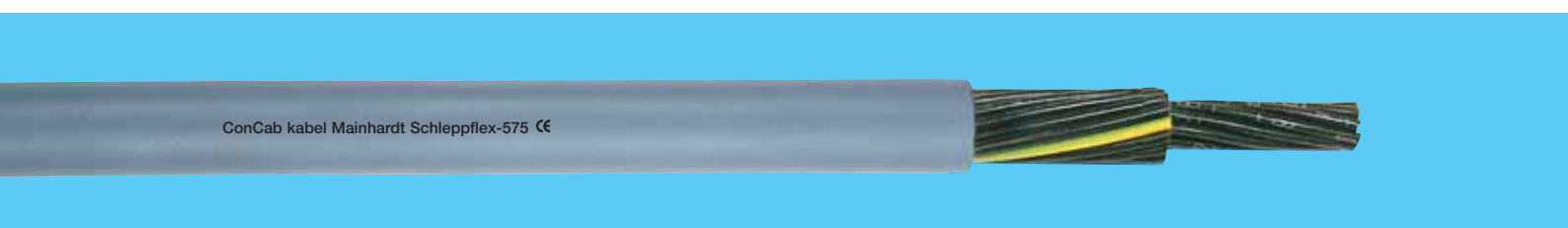
Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
575 0001 003	3 × 0,14	4,1	4,4	25
575 0001 004	4 × 0,14	5,6	4,6	30
575 0001 005	5 × 0,14	7,0	5,0	34
575 0001 007	7 × 0,14	9,8	6,0	48
575 0001 010	10 × 0,14	14,0	6,8	60
575 0001 014	14 × 0,14	19,6	7,3	74
575 0001 018	18 × 0,14	25,2	7,9	87
575 0001 025	25 × 0,14	35,0	9,3	118
575 0002 002	2 × 0,25	5,0	4,6	29
575 0002 003	3 × 0,25	7,5	4,8	34
575 0002 004	4 × 0,25	10,0	5,5	37
575 0002 005	5 × 0,25	12,5	6,0	46
575 0002 007	7 × 0,25	17,5	7,1	63
575 0002 010	10 × 0,25	25,0	8,0	82
575 0002 014	14 × 0,25	35,0	8,3	100
575 0002 018	18 × 0,25	45,0	9,1	127
575 0002 025	25 × 0,25	62,5	11,1	168
575 0003 002	2 × 0,34	6,8	5,2	35
575 0003 003	3 × 0,34	10,2	5,5	39
575 0003 004	4 × 0,34	13,6	6,6	57
575 0003 005	5 × 0,34	17,0	6,8	58
575 0003 007	7 × 0,34	23,8	7,9	82
575 0003 010	10 × 0,34	34,0	9,2	108
575 0003 014	14 × 0,34	47,6	9,9	146
575 0003 018	18 × 0,34	61,2	10,6	173
575 0003 025	25 × 0,34	85,0	12,8	235

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-575

High flexible control cable
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-575 is used as a control cable for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. It can be used in- and outdoors and in damp and wet areas. CC-Schleppflex PUR-575 is suitable in areas where aggressive mineral oils occur and where strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire.
PVC-based core insulation, black cores with consecutive white numbering. Control cables with 3 cores or more have a green/yellow protective conductor in the outer layer. Cores are twisted in layers in very short lay lengths, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
575 0005 003	3 G 0,5	14,4	6,6	46	575 0015 003	3 G 1,5	43,0	8,0	87
575 0005 004	4 G 0,5	19,2	7,0	58	575 0015 004	4 G 1,5	58,0	8,7	108
575 0005 005	5 G 0,5	24,0	7,4	72	575 0015 005	5 G 1,5	72,0	9,7	132
575 0005 007	7 G 0,5	34,0	8,6	85	575 0015 007	7 G 1,5	101,0	11,8	169
575 0005 012	12 G 0,5	58,0	10,1	135	575 0015 012	12 G 1,5	173,0	13,7	282
575 0005 018	18 G 0,5	86,4	12,2	194	575 0015 016	16 G 1,5	230,0	15,9	368
575 0005 025	25 G 0,5	120,0	15,8	264	575 0015 018	18 G 1,5	259,0	16,5	464
575 0005 034	34 G 0,5	163,2	17,1	343	575 0015 025	25 G 1,5	360,0	20,2	554
					575 0015 034	34 G 1,5	490,0	21,9	752
575 0007 003	3 G 0,75	21,6	6,8	55	575 0015 042	42 G 1,5	605,0	23,8	905
575 0007 004	4 G 0,75	29,0	7,4	68	575 0015 050	50 G 1,5	720,0	26,0	1104
575 0007 005	5 G 0,75	36,0	8,0	82	575 0015 061	61 G 1,5	878,0	30,2	1325
575 0007 007	7 G 0,75	50,0	9,5	104					
575 0007 012	12 G 0,75	86,0	11,3	186	575 0025 003	3 G 2,5	72,0	9,6	128
575 0007 016	16 G 0,75	116,0	12,6	222	575 0025 004	4 G 2,5	96,0	10,7	155
575 0007 018	18 G 0,75	130,0	13,5	243	575 0025 005	5 G 2,5	120,0	12,0	197
575 0007 025	25 G 0,75	180,0	16,7	341	575 0025 007	7 G 2,5	168,0	14,4	258
575 0007 034	34 G 0,75	245,0	19,4	445	575 0025 012	12 G 2,5	288,0	16,9	454
					575 0025 014	14 G 2,5	336,0	18,1	521
575 0010 003	3 G 1,0	29,0	7,2	68	575 0025 018	18 G 2,5	432,0	21,5	656
575 0010 004	4 G 1,0	38,4	7,8	95	575 0025 025	25 G 2,5	600,0	26,6	915
575 0010 005	5 G 1,0	48,0	8,5	129					
575 0010 007	7 G 1,0	67,0	10,2	208	575 0040 003	3 G 4	115,2	11,4	208
575 0010 012	12 G 1,0	115,0	12,2	227	575 0040 004	4 G 4	154,0	12,5	264
575 0010 016	16 G 1,0	153,0	13,8	272	575 0040 005	5 G 4	192,0	13,9	312
575 0010 018	18 G 1,0	173,0	14,7	310	575 0040 007	7 G 4	269,0	15,8	416
575 0010 025	25 G 1,0	240,0	18,0	412					
575 0010 034	34 G 1,0	326,0	19,8	555	575 0060 00	1 X 6	58,0	7,0	85
575 0010 041	41 G 1,0	394,0	21,5	667	575 0060 99	1 G 6	58,0	7,0	85
575 0010 050	50 G 1,0	480,0	23,1	802	575 0060 004	4 G 6	230,0	14,9	382
575 0010 065	65 G 1,0	624,0	26,5	1038	575 0060 005	5 G 6	288,0	16,4	465
					575 0100 99	1 G 10	96,0	8,4	140
					575 0100 004	4 G 10	384,0	18,5	465
					575 0100 005	5 G 10	480,0	20,4	621
					575 0160 00	1 X 16	154,0	10,0	188
					575 0160 99	1 G 16	154,0	10,0	188
					575 0160 004	4 G 16	614,0	21,8	862
					575 0160 005	5 G 16	768,0	24,0	1045

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-575

High flexible control cable
Conform to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 575 25 G 2,5 E 172073 cUL AWM STYLE 20234 600V 80°C CE

CC-Schleppflex PUR-575 UL/CSA is used as a control cable for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. It can be used in- and outdoors in damp and wet areas. CC-Schleppflex PUR-575 is suitable in areas where aggressive mineral oils occur and where strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire.
PVC-based core insulation, black cores with consecutive white numbering. Control cables with 3 cores or more have a green/yellow protective conductor in the outer layer. Cores are twisted in layers in very short lay lengths, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).
Black outer sheath and red or blue core colours upon request.

Technical data

Rated voltage:

VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:

4000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 20 MOhm × km

Temperature range:

-5°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281
UL: Style 10012/20234
CSA: AWM I A/B, II A/B FT1

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
575 20 03	3 G 0,5	3 × AWG 20	14,4	7,1	46
575 20 04	4 G 0,5	4 × AWG 20	19,2	8,1	58
575 20 05	5 G 0,5	5 × AWG 20	24,0	8,4	72
575 20 07	7 G 0,5	7 × AWG 20	34,0	9,7	85
575 20 12	12 G 0,5	12 × AWG 20	58,0	11,6	135
575 20 18	18 G 0,5	18 × AWG 20	86,4	13,6	194
575 20 25	25 G 0,5	25 × AWG 20	120,0	16,3	265
575 20 34	34 G 0,5	34 × AWG 20	163,2	19,0	343
575 19 03	3 G 0,75	3 × AWG 19	21,6	6,9	60
575 19 04	4 G 0,75	4 × AWG 19	29,0	7,5	72
575 19 05	5 G 0,75	5 × AWG 19	36,0	8,2	89
575 19 07	7 G 0,75	7 × AWG 19	50,0	10,1	132
575 19 12	12 G 0,75	12 × AWG 19	86,0	12,9	186
575 19 16	16 G 0,75	16 × AWG 19	110,0	13,6	240
575 19 18	18 G 0,75	18 × AWG 19	130,0	14,1	270
575 19 25	25 G 0,75	25 × AWG 19	180,0	17,3	368
575 19 34	34 G 0,75	34 × AWG 19	245,0	19,7	526
575 18 03	3 G 1,0	3 × AWG 18	29,0	7,1	63
575 18 04	4 G 1,0	4 × AWG 18	38,4	7,7	83
575 18 05	5 G 1,0	5 × AWG 18	48,0	8,5	104
575 18 07	7 G 1,0	7 × AWG 18	67,0	10,4	152
575 18 12	12 G 1,0	12 × AWG 18	115,0	12,5	218
575 18 16	16 G 1,0	16 × AWG 18	153,0	14,4	272
575 18 18	18 G 1,0	18 × AWG 18	173,0	14,6	320
575 18 25	25 G 1,0	25 × AWG 18	240,0	18,0	412
575 18 34	34 G 1,0	34 × AWG 18	326,0	20,4	623
575 18 41	41 G 1,0	41 × AWG 18	394,0	25,0	670
575 16 03	3 G 1,5	3 × AWG 16	43,0	8,5	87
575 16 04	4 G 1,5	4 × AWG 16	58,0	9,3	108
575 16 05	5 G 1,5	5 × AWG 16	72,0	10,1	132
575 16 07	7 G 1,5	7 × AWG 16	101,0	11,9	169
575 16 12	12 G 1,5	12 × AWG 16	173,0	14,3	282
575 16 16	16 G 1,5	16 × AWG 16	230,0	16,2	320
575 16 18	18 G 1,5	18 × AWG 16	259,0	17,0	464
575 16 25	25 G 1,5	25 × AWG 16	360,0	20,8	554
575 16 34	34 G 1,5	34 × AWG 16	490,0	22,6	752
575 16 50	50 G 1,5	50 × AWG 16	720,0	28,4	1104
575 16 61	61 G 1,5	61 × AWG 16	878,0	30,0	1325
575 14 03	3 G 2,5	3 × AWG 14	72,0	10,2	128
575 14 04	4 G 2,5	4 × AWG 14	96,0	11,1	155
575 14 05	5 G 2,5	5 × AWG 14	120,0	12,1	197
575 14 07	7 G 2,5	7 × AWG 14	168,0	14,5	258
575 14 12	12 G 2,5	12 × AWG 14	288,0	18,0	453
575 12 04	4 G 4	4 × AWG 12	154,0	13,4	264
575 12 05	5 G 4	5 × AWG 12	192,0	14,8	312
575 12 07	7 G 4	7 × AWG 12	269,0	18,5	416
575 10 04	4 G 6	4 × AWG 10	230,0	15,1	382
575 10 07	7 G 6	7 × AWG 10	403,0	20,1	751
575 08 04	4 G 10	4 × AWG 8	384,0	18,1	601
575 06 04	4 G 16	4 × AWG 6	615,0	22,5	851

CC-Schleppflex® PUR-C-576

High flexible data cable, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-C-576 shielded is used as a data- and signal cable for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. It can be used in- and outdoors in damp and wet areas. The overall copper shield ensures exact signal transmission and protects the cable against electromagnetic disturbances and influences. CC-Schleppflex PUR-C-576 is suitable in areas where aggressive mineral oils occur and where strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, core colours acc. to DIN 47100, cores twisted in layers in very short lay lengths, fleece, tinned copper shield. PUR-based outer sheath, flame retardant, self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281, 0812

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt):	250	250	250
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world



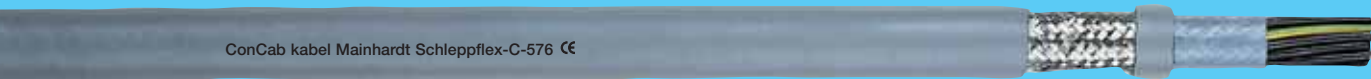
Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
576 0001 002	2 × 0,14	11,2	4,3	30
576 0001 003	3 × 0,14	14,1	4,5	34
576 0001 004	4 × 0,14	15,5	4,8	38
576 0001 005	5 × 0,14	18,3	5,1	44
576 0001 007	7 × 0,14	27,8	6,4	55
576 0001 010	10 × 0,14	39,3	7,3	84
576 0001 012	12 × 0,14	42,1	7,5	91
576 0001 014	14 × 0,14	45,3	7,6	105
576 0001 018	18 × 0,14	54,1	8,4	113
576 0001 025	25 × 0,14	68,4	9,9	152
576 0002 002	2 × 0,25	14,9	4,7	35
576 0002 003	3 × 0,25	18,8	4,9	40
576 0002 004	4 × 0,25	21,3	5,7	46
576 0002 005	5 × 0,25	31,0	6,3	53
576 0002 007	7 × 0,25	39,6	7,1	74
576 0002 010	10 × 0,25	53,9	8,3	96
576 0002 012	12 × 0,25	57,1	8,6	108
576 0002 014	14 × 0,25	64,2	8,7	130
576 0002 018	18 × 0,25	78,4	9,6	158
576 0002 025	25 × 0,25	101,0	11,3	210
576 0003 002	2 × 0,34	18,1	5,7	45
576 0003 003	3 × 0,34	28,7	6,2	61
576 0003 004	4 × 0,34	35,7	6,6	77
576 0003 005	5 × 0,34	39,1	7,1	83
576 0003 007	7 × 0,34	52,7	8,3	109
576 0003 010	10 × 0,34	67,4	9,8	147
576 0003 012	12 × 0,34	76,6	10,1	166
576 0003 014	14 × 0,34	85,8	10,2	186
576 0003 018	18 × 0,34	99,7	11,3	216
576 0003 025	25 × 0,34	155,0	13,6	314

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-C-576

High flexible control cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-C-576 shielded is used as a control cable for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. It can be used in- and outdoors in damp and wet areas. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. CC-Schleppflex PUR-C-576 is suitable in areas where aggressive mineral oils occur and where strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, cores are black with consecutive white numbering, control cables with 3 cores or more contain a green/yellow protective conductor in the outer layer, cores twisted in layers in very short lay lengths. Special core wrapping, PVC inner sheath, tinned copper shield, fleece. PUR-based outer sheath, flame retardant, self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +70°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
576 0005 003	3 G 0,5	48,0	7,8	100	576 0015 003	3 G 1,5	84,0	9,0	170
576 0005 004	4 G 0,5	58,0	7,9	115	576 0015 004	4 G 1,5	90,0	9,9	290
576 0005 005	5 G 0,5	75,0	8,4	134	576 0015 005	5 G 1,5	107,0	10,9	315
576 0005 007	7 G 0,5	78,0	9,8	162	576 0015 007	7 G 1,5	158,0	12,7	354
576 0005 012	12 G 0,5	111,0	11,3	228	576 0015 012	12 G 1,5	259,0	15,1	521
576 0005 018	18 G 0,5	169,0	13,4	340	576 0015 016	16 G 1,5	321,0	16,8	650
576 0005 025	25 G 0,5	210,0	16,1	436	576 0015 018	18 G 1,5	394,0	17,8	732
					576 0015 025	25 G 1,5	583,0	21,9	1000
576 0007 003	3 G 0,75	55,0	7,8	118	576 0015 034	34 G 1,5	625,0	27,5	1115
576 0007 004	4 G 0,75	79,0	8,4	135	576 0015 042	42 G 1,5	872,0	29,8	1534
576 0007 005	5 G 0,75	87,0	9,0	162	576 0015 050	50 G 1,5	919,0	32,3	1807
576 0007 007	7 G 0,75	129,0	10,7	194					
576 0007 012	12 G 0,75	144,0	12,4	286	576 0025 003	3 G 2,5	136,0	10,8	269
576 0007 014	14 G 0,75	167,0	14,0	341	576 0025 004	4 G 2,5	145,0	11,8	315
576 0007 018	18 G 0,75	228,0	14,9	434	576 0025 005	5 G 2,5	198,0	13,2	395
576 0007 025	25 G 0,75	310,0	18,0	568	576 0025 007	7 G 2,5	236,0	15,8	517
576 0007 034	34 G 0,75	378,0	22,0	702	576 0025 012	12 G 2,5	420,0	18,2	728
576 0010 003	3 G 1,0	56,0	8,2	136	576 0040 003	3 G 4	188,0	12,4	315
576 0010 004	4 G 1,0	78,0	8,9	167	576 0040 004	4 G 4	214,0	13,7	395
576 0010 005	5 G 1,0	82,0	9,8	195	576 0040 005	5 G 4	285,0	15,3	527
576 0010 007	7 G 1,0	89,0	11,4	275					
576 0010 012	12 G 1,0	161,0	13,4	404	576 0060 004	4 G 6	286,0	16,1	505
576 0010 016	16 G 1,0	236,0	15,2	472	576 0060 005	5 G 6	435,0	17,1	736
576 0010 018	18 G 1,0	283,0	16,1	597					
576 0010 025	25 G 1,0	360,0	19,5	818	576 0100 004	4 G 10	470,0	20,2	1043
576 0010 034	34 G 1,0	440,0	23,5	1100	576 0100 005	5 G 10	698,0	22,2	1100
576 0010 041	41 G 1,0	586,0	25,4	1250					
576 0010 050	50 G 1,0	685,0	27,0	1416	576 0160 004	4 G 16	795,0	23,2	1340
576 0010 065	65 G 1,0	878,0	31,4	1835	576 0160 005	5 G 16	1045,0	26,1	1685

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-C-576



High flexible control cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-C-576 shielded UL/CSA is used as a control cable for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. Further it can be used for handling equipment and is suitable for damp and wet areas in- and outdoors.

The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. CC-Schleppflex PUR-C-576 is suitable in areas where aggressive mineral oils occur and strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, PVC-based core insulation, cores are black with consecutive white numbering, control cables with 3 cores or more contain a green/yellow protective conductor in the outer layer, cores twisted in layers in very short lay lengths, PVC inner sheath, tinned copper shield, fleece. PUR-based outer sheath, flame retardant, self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001). Black outer sheath and red or blue core colours upon request.

Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:
4000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281
UL: Style 10012/20234
CSA: AWM I A/B, II A/B FT1

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Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
576 20 03	3 G 0,5	3 × AWG 20	48,0	9,1	128
576 20 04	4 G 0,5	4 × AWG 20	58,0	9,8	145
576 20 05	5 G 0,5	5 × AWG 20	73,0	10,4	161
576 20 07	7 G 0,5	7 × AWG 20	78,0	11,6	195
576 20 12	12 G 0,5	12 × AWG 20	111,0	14,0	266
576 20 18	18 G 0,5	18 × AWG 20	169,0	16,2	409
576 20 25	25 G 0,5	25 × AWG 20	275,0	19,3	575
576 20 34	34 G 0,5	34 × AWG 20	354,0	21,5	712
576 19 03	3 G 0,75	3 × AWG 19	62,0	9,2	113
576 19 04	4 G 0,75	4 × AWG 19	71,0	10,2	140
576 19 05	5 G 0,75	5 × AWG 19	87,0	10,9	166
576 19 07	7 G 0,75	7 × AWG 19	109,0	12,7	225
576 19 12	12 G 0,75	12 × AWG 19	158,0	14,8	300
576 19 16	16 G 0,75	16 × AWG 19	165,0	16,0	330
576 19 18	18 G 0,75	18 × AWG 19	237,0	18,2	460
576 19 25	25 G 0,75	25 × AWG 19	320,0	21,0	590
576 19 34	34 G 0,75	34 × AWG 19	430,0	23,8	800
576 18 03	3 G 1,0	3 × AWG 18	70,0	9,4	130
576 18 04	4 G 1,0	4 × AWG 18	89,0	10,4	160
576 18 05	5 G 1,0	5 × AWG 18	100,0	11,2	185
576 18 07	7 G 1,0	7 × AWG 18	127,0	13,2	250
576 18 12	12 G 1,0	12 × AWG 18	137,0	15,6	350
576 18 16	16 G 1,0	16 × AWG 18	240,0	17,2	450
576 18 18	18 G 1,0	18 × AWG 18	305,0	18,9	525
576 18 25	25 G 1,0	25 × AWG 18	385,0	22,0	680
576 18 34	34 G 1,0	34 × AWG 18	525,0	24,5	865
576 18 41	41 G 1,0	41 × AWG 18	585,0	26,7	1040
576 16 03	3 G 1,5	3 × AWG 16	84,0	10,6	170
576 16 04	4 G 1,5	4 × AWG 16	90,0	11,4	290
576 16 05	5 G 1,5	5 × AWG 16	107,0	12,3	315
576 16 07	7 G 1,5	7 × AWG 16	158,0	14,1	354
576 16 12	12 G 1,5	12 × AWG 16	259,0	17,2	521
576 16 16	16 G 1,5	16 × AWG 16	275,0	18,8	620
576 16 18	18 G 1,5	18 × AWG 16	394,0	19,6	732
576 16 25	25 G 1,5	25 × AWG 16	538,0	23,6	1000
576 16 34	34 G 1,5	34 × AWG 16	625,0	27,0	1115
576 16 50	50 G 1,5	50 × AWG 16	919,0	32,0	1807
576 14 03	3 G 2,5	3 × AWG 14	136,0	12,6	269
576 14 04	4 G 2,5	4 × AWG 14	145,0	13,5	315
576 14 05	5 G 2,5	5 × AWG 14	198,0	15,0	395
576 14 07	7 G 2,5	7 × AWG 14	236,0	16,9	517
576 14 12	12 G 2,5	12 × AWG 14	374,0	21,2	728
576 14 18	18 G 2,5	18 × AWG 14	609,0	23,6	1134
576 12 04	4 G 4	4 × AWG 12	214,0	16,0	395
576 12 07	7 G 4	7 × AWG 12	450,0	19,8	769
576 10 04	4 G 6	4 × AWG 10	286,0	17,7	505
576 10 07	7 G 6	7 × AWG 10	470,0	23,6	1603
576 08 04	4 G 10	4 × AWG 8	557,0	18,0	1043
576 06 04	4 G 16	4 × AWG 6	780,0	20,0	1173

CC-Schleppflex® PUR-572

Superflexible halogen-free data cable
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-572 superflexible is used as a data and signal cable in mobile power supply chains, sensor technology, computer systems, control devices for measurement and control technology as well as in industrial robots and handling equipment, for in- and outdoor use. It can be used in areas where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress and small bending radius. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, polyester (TPE) core insulation, core colours acc. to DIN 47100, fleece. Cores twisted in layers in very short lay lengths, fleece, PUR-based outer sheath, flame retardant and self-extinguishing (acc. VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281, 0812

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt):	250	250	250
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

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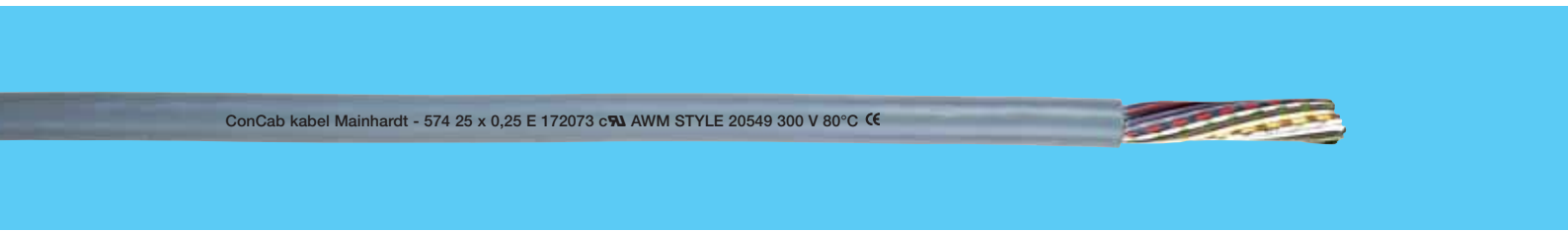
Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
572 0001 002	2 × 0,14	2,7	4,2	21
572 0001 003	3 × 0,14	4,0	4,4	25
572 0001 004	4 × 0,14	5,4	4,6	28
572 0001 005	5 × 0,14	6,7	4,9	35
572 0001 007	7 × 0,14	9,4	5,7	47
572 0001 010	10 × 0,14	13,4	5,9	62
572 0001 012	12 × 0,14	16,1	6,0	67
572 0001 014	14 × 0,14	18,8	6,6	71
572 0001 018	18 × 0,14	24,2	6,9	84
572 0001 025	25 × 0,14	33,6	8,2	124
572 0002 002	2 × 0,25	5,0	4,1	25
572 0002 003	3 × 0,25	7,5	4,5	29
572 0002 004	4 × 0,25	10,0	4,8	38
572 0002 005	5 × 0,25	12,5	5,0	47
572 0002 007	7 × 0,25	17,5	6,0	58
572 0002 010	10 × 0,25	25,0	7,3	82
572 0002 012	12 × 0,25	30,1	8,1	93
572 0002 014	14 × 0,25	35,0	8,3	104
572 0002 018	18 × 0,25	45,0	8,9	127
572 0002 025	25 × 0,25	62,5	11,0	166
572 0003 002	2 × 0,34	6,5	4,9	32
572 0003 003	3 × 0,34	9,8	5,1	38
572 0003 004	4 × 0,34	13,1	5,7	53
572 0003 005	5 × 0,34	16,3	6,3	64
572 0003 007	7 × 0,34	22,8	7,2	78
572 0003 010	10 × 0,34	32,6	8,6	105
572 0003 012	12 × 0,34	39,2	8,8	126
572 0003 014	14 × 0,34	45,7	9,3	147
572 0003 018	18 × 0,34	58,8	10,2	178
572 0003 025	25 × 0,34	85,0	12,3	247

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-574

Low capacitance, superflexible halogen-free data cable
Conforms to EU low voltage guideline 73/23/EWG CE



ConCab kabel Mainhardt - 574 25 x 0,25 E 172073 cUL AWM STYLE 20549 300 V 80°C CE

CC-Schleppflex PUR-574 UL/CSA superflexible is used as a data and signal cable with low capacity for power supply chains, sensor technology, computers and for control devices of instrument and control engineering. Further it can be used for handling equipment and is suitable in- and outdoors. It can be used in areas where aggressive mineral oils occur and where strong mechanical performances are required. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, polyolefin core insulation, core colours acc. to DIN 47100. Cores twisted in layers in very short lay lengths, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes.
Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Operation capacity at 800 Hz:
core/core max. 60 nF/km

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
5 × cable diameter

Approvals:
acc. to DIN VDE 0245, 0281, 0812
UL: Style 20549, 20233 CMX
CSA: AWM C22.2 N 210.2-M90 FT1

Cross-section (mm ²)	0,14	0,25	0,34
Rated voltage (Volt) VDE / UL, CSA	300	300	300
Test voltage (Volt)	1500	1500	1500
Conductor resistance (Ohm/km)	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
574 26 02	2 × 0,14	2 × AWG 26	2,8	3,5	14
574 26 03	3 × 0,14	3 × AWG 26	4,2	3,7	15
574 26 04	4 × 0,14	4 × AWG 26	5,6	3,9	17
574 26 05	5 × 0,14	5 × AWG 26	7,0	4,2	20
574 26 07	7 × 0,14	7 × AWG 26	9,9	4,6	27
574 26 10	10 × 0,14	10 × AWG 26	14,1	5,3	33
574 26 12	12 × 0,14	12 × AWG 26	16,9	5,5	38
574 26 14	14 × 0,14	14 × AWG 26	19,7	5,7	42
574 26 18	18 × 0,14	18 × AWG 26	25,3	6,2	52
574 26 25	25 × 0,14	25 × AWG 26	35,2	7,3	73
574 24 02	2 × 0,25	2 × AWG 24	5,0	3,9	18
574 24 03	3 × 0,25	3 × AWG 24	7,5	4,1	20
574 24 04	4 × 0,25	4 × AWG 24	10,0	4,4	24
574 24 05	5 × 0,25	5 × AWG 24	12,5	4,7	28
574 24 07	7 × 0,25	7 × AWG 24	17,6	5,3	38
574 24 10	10 × 0,25	10 × AWG 24	27,6	6,3	53
574 24 12	12 × 0,25	12 × AWG 24	30,1	6,3	55
574 24 14	14 × 0,25	14 × AWG 24	35,1	6,7	63
574 24 18	18 × 0,25	18 × AWG 24	45,1	7,3	79
574 24 25	25 × 0,25	25 × AWG 24	62,7	8,6	110
574 22 02	2 × 0,34	2 × AWG 22	6,6	4,1	21
574 22 03	3 × 0,34	3 × AWG 22	9,9	4,3	23
574 22 04	4 × 0,34	4 × AWG 22	13,2	4,6	28
574 22 05	5 × 0,34	5 × AWG 22	16,5	5,0	33
574 22 07	7 × 0,34	7 × AWG 22	23,1	5,6	46
574 22 10	10 × 0,34	10 × AWG 22	33,0	6,6	59
574 22 12	12 × 0,34	12 × AWG 22	39,6	6,8	68
574 22 14	14 × 0,34	14 × AWG 22	46,2	7,1	77
574 22 18	18 × 0,34	18 × AWG 22	59,2	7,8	97
574 22 25	25 × 0,34	25 × AWG 22	82,5	9,6	142

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-572

Superflexible halogen-free control cable
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-572 superflexible is used as a control cable in power supply chains, sensor technology, computer systems and control devices for measurement and control technology as well as in industrial robots and handling equipment, for in- and outdoor use. It can be used in areas where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress and small bending radius. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, polyester (TPE) core insulation, cores are black with consecutive white numbering, 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in layers in very short lay lengths, bandage over each layer, fleece. PUR-based outer sheath, flame retardant and self-extinguishing (acc. VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
572 0005 002	2 X 0,5	9,6	5,1	34	572 0010 041	41 G 1,0	393,0	18,4	599
572 0005 003	3 G 0,5	14,4	5,4	41	572 0010 050	50 G 1,0	480,0	20,4	731
572 0005 004	4 G 0,5	19,2	5,8	48	572 0010 065	65 G 1,0	624,0	22,8	956
572 1005 004	4 X 0,5	19,2	5,8	48					
572 0005 005	5 G 0,5	24,0	6,2	57	572 0015 002	2 X 1,5	29,0	6,5	67
572 0005 007	7 G 0,5	34,0	7,4	82	572 0015 003	3 G 1,5	43,0	7,1	83
572 0005 012	12 G 0,5	58,0	8,8	120	572 0015 004	4 G 1,5	58,0	7,7	106
572 0005 014	14 G 0,5	67,0	9,7	139	572 0015 005	5 G 1,5	72,0	8,3	134
572 0005 018	18 G 0,5	86,4	10,6	176	572 0015 007	7 G 1,5	101,0	10,1	173
572 0005 020	20 G 0,5	96,0	11,2	191	572 0015 012	12 G 1,5	173,0	12,2	288
572 0005 025	25 G 0,5	120,0	12,6	214	572 0015 014	14 G 1,5	202,0	13,1	330
572 0005 027	27 G 0,5	130,0	13,3	239	572 0015 018	18 G 1,5	259,0	14,3	404
572 0005 030	30 G 0,5	144,0	13,8	257	572 0015 020	20 G 1,5	288,0	15,3	466
572 0005 034	34 G 0,5	163,2	14,1	284	572 0015 025	25 G 1,5	360,0	17,3	574
572 0005 036	36 G 0,5	173,0	14,3	301	572 0015 027	27 G 1,5	389,0	17,6	613
572 0005 041	41 G 0,5	197,0	15,0	352	572 0015 030	30 G 1,5	432,0	18,1	665
572 0005 050	50 G 0,5	240,0	16,8	433	572 0015 034	34 G 1,5	490,0	19,2	737
					572 0015 036	36 G 1,5	518,0	19,4	772
572 0007 002	2 X 0,75	14,4	5,5	43	572 0015 042	42 G 1,5	605,0	21,2	881
572 0007 003	3 G 0,75	21,6	5,8	51	572 0015 050	50 G 1,5	720,0	27,2	1009
572 0007 004	4 G 0,75	29,0	6,3	66	572 0015 061	61 G 1,5	878,0	30,0	1207
572 0007 005	5 G 0,75	36,0	6,9	75	572 0015 065	65 G 1,5	936,0	31,7	1279
572 0007 007	7 G 0,75	50,0	8,1	105					
572 0007 012	12 G 0,75	86,0	10,1	166	572 0025 003	3 G 2,5	72,0	8,4	157
572 0007 014	14 G 0,75	101,0	10,6	192	572 0025 004	4 G 2,5	96,0	8,9	189
572 0007 018	18 G 0,75	130,0	11,6	227	572 0025 005	5 G 2,5	120,0	10,1	246
572 0007 020	20 G 0,75	144,0	12,2	252	572 0025 007	7 G 2,5	168,0	11,7	328
572 0007 025	25 G 0,75	180,0	14,0	318	572 0025 012	12 G 2,5	288,0	14,2	529
572 0007 030	30 G 0,75	216,0	15,1	364	572 0025 014	14 G 2,5	336,0	15,5	615
572 0007 034	34 G 0,75	245,0	15,4	420	572 0025 018	18 G 2,5	432,0	17,2	779
572 0007 036	36 G 0,75	259,0	15,7	448	572 0025 025	25 G 2,5	600,0	21,1	1064
572 0007 041	41 G 0,75	296,0	17,1	519					
572 0007 050	50 G 0,75	360,0	18,6	645	572 0040 003	3 G 4	115,2	10,2	224
					572 0040 004	4 G 4	154,0	11,1	276
572 0010 002	2 X 1,0	19,2	6,1	50	572 0040 005	5 G 4	192,0	12,1	357
572 0010 003	3 G 1,0	29,0	6,3	64	572 0040 007	7 G 4	269,0	14,4	474
572 0010 004	4 G 1,0	38,4	7,0	78					
572 0010 005	5 G 1,0	48,0	7,5	100	572 0060 003	3 G 6	173,0	11,5	328
572 0010 007	7 G 1,0	67,0	8,7	129	572 0060 004	4 G 6	230,0	12,5	416
572 0010 012	12 G 1,0	115,0	10,5	208	572 0060 005	5 G 6	288,0	13,9	524
572 0010 014	14 G 1,0	134,0	11,5	237	572 0060 007	7 G 6	403,0	16,6	751
572 0010 018	18 G 1,0	173,0	12,7	286					
572 0010 020	20 G 1,0	192,0	13,6	309	572 0100 003	3 G 10	288,0	14,5	508
572 0010 025	25 G 1,0	240,0	15,2	384	572 0100 004	4 G 10	384,0	16,1	644
572 0010 027	27 G 1,0	259,0	16,1	423	572 0100 005	5 G 10	480,0	17,9	805
572 0010 030	30 G 1,0	288,0	16,3	449					
572 0010 034	34 G 1,0	326,0	16,8	501	572 0160 004	4 G 16	614,0	18,9	1075
572 0010 036	36 G 1,0	346,0	17,3	528	572 0160 005	5 G 16	768,0	20,8	1376

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

CC-Schleppflex® PUR-C-569

Superflexible halogen-free data cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mähnhardt Schleppflex-C-569 CE

CC-Schleppflex PUR-569 superflexible shielded is used as a data and signal cable in power supply chains, sensor technology, computer systems and control devices for measurement and control technology as well as in industrial robots and handling equipment, for in- and outdoor use. It can be used in areas where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress and small bending radius.

The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, polyester (TPE) core insulation, core colours acc. to DIN 47100, cores twisted in layers in very short lay lengths, bandage over each layer, tinned copper shield, fleece. PUR-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281, 0812

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt):	250	250	250
Test voltage (Volt):	1500	1500	1500
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
569 0001 002	2 × 0,14	11,3	4,7	30
569 0001 003	3 × 0,14	14,5	5,0	34
569 0001 004	4 × 0,14	15,7	5,2	38
569 0001 005	5 × 0,14	18,5	5,4	44
569 0001 007	7 × 0,14	25,9	6,2	58
569 0001 010	10 × 0,14	39,6	6,7	78
569 0001 012	12 × 0,14	42,4	6,9	92
569 0001 014	14 × 0,14	46,0	7,3	101
569 0001 018	18 × 0,14	52,5	8,3	111
569 0001 025	25 × 0,14	64,7	9,2	148
569 0002 002	2 × 0,25	16,8	4,6	35
569 0002 003	3 × 0,25	19,2	5,3	40
569 0002 004	4 × 0,25	21,5	5,6	46
569 0002 005	5 × 0,25	30,5	6,0	61
569 0002 007	7 × 0,25	37,7	6,6	77
569 0002 010	10 × 0,25	53,4	8,2	105
569 0002 012	12 × 0,25	59,6	8,5	118
569 0002 014	14 × 0,25	63,8	8,7	137
569 0002 018	18 × 0,25	75,6	9,3	157
569 0002 025	25 × 0,25	97,4	11,4	195
569 0003 002	2 × 0,34	19,9	5,7	43
569 0003 003	3 × 0,34	27,2	6,1	57
569 0003 004	4 × 0,34	34,4	6,4	78
569 0003 005	5 × 0,34	38,6	6,7	84
569 0003 007	7 × 0,34	51,2	8,0	108
569 0003 010	10 × 0,34	65,8	9,2	151
569 0003 012	12 × 0,34	74,9	9,6	162
569 0003 014	14 × 0,34	86,4	9,8	181
569 0003 018	18 × 0,34	96,7	10,6	222
569 0003 024	24 × 0,34	148,4	13,0	318
569 0003 025	25 × 0,34	151,6	13,0	321

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-C-592

Low capacitance, superflexible halogen-free data cable, shielded
Conforms to the EU low-voltage guideline 73/23/EWG CE



ConCab kabel Mähnhardt Schleppflex-C-592 10 x 0,25 E172073 cUL AWM STYLE 20549 300 V 80°C CE

CC-Schleppflex PUR-592 UL/CSA superflexible shielded with low capacitance is used as a data and signal cable in power supply chains, sensor technology, computer systems and control devices for measurement and control technology as well as in industrial robots and handling equipment, for in- and outdoor use. It can be used in areas where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress and small bending radius. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, polyolefin core insulation, core colours acc. to DIN 47100, cores twisted in layers in very short lay lengths, tinned copper shield, fleece. PUR-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Operation capacity at 800 Hz:
core/core approx. 60 nF/km
core/shield approx. 160 nF/km

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
5 × cable diameter

Approvals:
acc. to VDE 0245, 0281, 0812
UL: Style 20549, 20233 CMX
CSA: AWM C 22.2 N 210.2-M90 FT1

Cross-section (mm²):	0,14	0,25	0,34
Rated voltage (Volt) VDE / UL, CSA	300	300	300
Test voltage (Volt)	1500	1500	1500
Conductor resistance (Ohm/km)	≤ 138	≤ 79	≤ 57

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Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
592 26 02	2 × 0,14	2 × AWG 26	5,5	3,9	18
592 26 03	3 × 0,14	3 × AWG 26	6,9	4,1	18
592 26 04	4 × 0,14	4 × AWG 26	8,3	4,3	21
592 26 05	5 × 0,14	5 × AWG 26	9,7	4,6	24
592 26 07	7 × 0,14	7 × AWG 26	12,6	5,0	31
592 26 10	10 × 0,14	10 × AWG 26	16,8	5,7	37
592 26 12	12 × 0,14	12 × AWG 26	19,6	5,9	41
592 26 14	14 × 0,14	14 × AWG 26	22,4	6,1	46
592 26 18	18 × 0,14	18 × AWG 26	28,0	6,7	57
592 26 25	25 × 0,14	25 × AWG 26	37,9	7,7	77
592 24 02	2 × 0,25	2 × AWG 24	11,7	4,3	26
592 24 03	3 × 0,25	3 × AWG 24	14,7	4,5	28
592 24 04	4 × 0,25	4 × AWG 24	18,0	4,8	33
592 24 05	5 × 0,25	5 × AWG 24	21,4	5,1	38
592 24 07	7 × 0,25	7 × AWG 24	28,1	5,7	50
592 24 10	10 × 0,25	10 × AWG 24	37,9	6,6	63
592 24 12	12 × 0,25	12 × AWG 24	43,4	6,8	70
592 24 14	14 × 0,25	14 × AWG 24	49,2	7,1	78
592 24 18	18 × 0,25	18 × AWG 24	61,0	7,7	96
592 24 25	25 × 0,25	25 × AWG 24	86,4	9,5	143
592 22 02	2 × 0,34	2 × AWG 22	13,8	4,5	29
592 22 03	3 × 0,34	3 × AWG 22	17,6	4,7	32
592 22 04	4 × 0,34	4 × AWG 22	21,7	5,0	37
592 22 05	5 × 0,34	5 × AWG 22	26,0	5,4	44
592 22 07	7 × 0,34	7 × AWG 22	34,4	6,0	58
592 22 10	10 × 0,34	10 × AWG 22	46,8	7,0	74
592 22 12	12 × 0,34	12 × AWG 22	53,9	7,2	83
592 22 14	14 × 0,34	14 × AWG 22	61,3	7,5	93
592 22 18	18 × 0,34	18 × AWG 22	80,8	8,3	120
592 22 25	25 × 0,34	25 × AWG 22	108,7	10,1	171

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world



CC-Schleppflex® PUR-C-569

Superflexible halogen-free control cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Schleppflex PUR-C-569 superflexible shielded is used as a control cable in power supply chains, sensor technology, computer systems, control devices for measurement and control technology as well as in industrial robots and handling equipment, for in- and outdoor use. It can be used in areas where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress and small bending radius. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. The PUR outer sheath is cut, notch and abrasion resistant.

Construction

Superfine strands of bare copper wire, polyester (TPE) core insulation, cores are black with consecutive white numbering, cables with 3 cores or more contain a green/yellow protective conductor in the outer layer, cores twisted in layers in very short lay lengths, bandage over each layer, PUR inner sheath, tinned copper shield, fleece. PUR-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
569 0005 002	2 X 0,5	34,0	7,2	65	569 0015 002	2 X 1,5	56,0	8,6	138
569 0005 003	3 G 0,5	45,0	7,5	73	569 0015 003	3 G 1,5	87,0	9,3	164
569 0005 004	4 G 0,5	52,0	7,9	91	569 0015 004	4 G 1,5	104,0	10,0	191
569 0005 005	5 G 0,5	61,0	8,2	112	569 0015 005	5 G 1,5	122,0	10,6	233
569 0005 007	7 G 0,5	74,0	9,7	125	569 0015 007	7 G 1,5	169,0	12,1	285
569 0005 012	12 G 0,5	99,0	10,7	187	569 0015 012	12 G 1,5	270,0	14,8	425
569 0005 014	14 G 0,5	109,0	11,6	212	569 0015 014	14 G 1,5	315,0	15,7	477
569 0005 018	18 G 0,5	132,0	12,8	262	569 0015 018	18 G 1,5	388,0	16,9	595
569 0005 020	20 G 0,5	155,0	13,8	287	569 0015 020	20 G 1,5	432,0	18,2	647
569 0005 025	25 G 0,5	187,0	15,4	350	569 0015 025	25 G 1,5	528,0	20,2	792
569 0005 030	30 G 0,5	224,0	15,8	413	569 0015 030	30 G 1,5	603,0	21,0	924
569 0005 036	36 G 0,5	255,0	16,8	488	569 0015 034	34 G 1,5	783,0	22,3	1028
569 0005 050	50 G 0,5	345,0	20,1	725	569 0015 042	42 G 1,5	834,0	24,2	1236
					569 0015 050	50 G 1,5	995,0	30,4	1444
569 0007 002	2 X 0,75	41,0	7,6	81					
569 0007 003	3 G 0,75	49,1	7,8	98	569 0025 003	3 G 2,5	134,0	11,0	230
569 0007 004	4 G 0,75	61,6	8,4	115	569 0025 004	4 G 2,5	164,0	11,5	303
569 0007 005	5 G 0,75	70,0	8,7	131	569 0025 005	5 G 2,5	195,0	12,3	398
569 0007 007	7 G 0,75	89,7	10,4	171	569 0025 007	7 G 2,5	281,0	14,2	510
569 0007 012	12 G 0,75	154,0	12,2	243	569 0025 012	12 G 2,5	445,0	17,3	722
569 0007 014	14 G 0,75	167,0	13,0	276	569 0025 014	14 G 2,5	551,0	18,3	806
569 0007 018	18 G 0,75	205,0	14,0	324	569 0025 018	18 G 2,5	687,0	20,2	974
569 0007 020	20 G 0,75	220,0	14,8	375	569 0025 025	25 G 2,5	898,0	24,1	1268
569 0007 025	25 G 0,75	277,0	16,6	449					
569 0007 030	30 G 0,75	315,0	18,0	514	569 0040 004	4 G 4	232,0	13,7	453
569 0007 032	32 G 0,75	323,0	18,0	610	569 0040 005	5 G 4	291,0	15,1	528
569 0007 036	36 G 0,75	370,0	18,6	625	569 0040 007	7 G 4	378,0	18,5	613
569 0010 002	2 X 1,0	49,0	7,9	98	569 0060 004	4 G 6	337,0	15,3	602
569 0010 003	3 G 1,0	59,0	8,2	125	569 0060 005	5 G 6	438,0	16,7	735
569 0010 004	4 G 1,0	71,8	8,8	149	569 0060 007	7 G 6	532,0	19,0	942
569 0010 005	5 G 1,0	84,4	9,7	173					
569 0010 007	7 G 1,0	114,0	10,6	225	569 0100 004	4 G 10	512,0	18,9	948
569 0010 012	12 G 1,0	188,0	13,1	295	569 0100 005	5 G 10	626,0	21,1	1077
569 0010 014	14 G 1,0	216,0	13,9	343					
569 0010 018	18 G 1,0	271,0	15,1	439	569 0160 004	4 G 16	790,0	21,9	1405
569 0010 020	20 G 1,0	302,0	16,2	487	569 0160 005	5 G 16	1045,0	24,4	1790
569 0010 025	25 G 1,0	375,0	18,0	610					
569 0010 030	30 G 1,0	445,0	19,0	730					
569 0010 034	34 G 1,0	505,0	19,6	826					
569 0010 036	36 G 1,0	529,0	20,0	874					
569 0010 041	41 G 1,0	599,0	21,3	996					
569 0010 050	50 G 1,0	725,0	23,4	1212					
569 0010 065	65 G 1,0	935,0	25,4	1572					

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Control Cable-PUR-571

Halogen-free robust control cable 600V
Conforms to EU low-voltage guideline 73/23/EEC CE



The flexible CC-Control cable PUR-571 UL/CSA has been developed for use in machineries where high mechanical stress occurs and where flexibility and extensive chemical resistance are required. The PUR-based outer sheath allows the cable to be used in- and outdoors as well as in sewage- and seawater. Additionally, the outer sheath is extensively resistant to acids and lye, to industrial solvents, as well as mineral and hydro synthetic oils.

Construction

Fine strands of bare copper wire, TPE-based core insulation, cores are black with consecutive white numbering, cables with 3 cores or more contain a green/yellow protective conductor in the outer layer, cores are twisted in layers in very short lay lengths, PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1, IEC 60332-1 and UL VW-1).
Colour black (RAL9005).

Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-50°C to +105°C

Bending radius:
flexible application: 5 × cable diameter

Approvals:
acc. to VDE 0250, 0282
UL: Style 20234
CSA: AWM I/II A/B FT1
flame resistance: VW-1

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Part-No.	No. of cores + cross-section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
571 18 02	2 X 1,0	2 × AWG 18	19,2	9,3	91
571 18 03	3 G 1,0	3 × AWG 18	29,0	9,7	101
571 18 04	4 G 1,0	4 × AWG 18	38,4	10,5	124
571 18 05	5 G 1,0	5 × AWG 18	48,0	12,3	189
571 18 07	7 G 1,0	7 × AWG 18	67,0	14,1	229
571 18 09	9 G 1,0	9 × AWG 18	86,4	16,6	326
571 18 12	12 G 1,0	12 × AWG 18	115,0	17,3	346
571 18 18	18 G 1,0	18 × AWG 18	173,0	19,7	477
571 18 25	25 G 1,0	25 × AWG 18	240,0	24,2	727
571 18 34	34 G 1,0	34 × AWG 18	326,0	26,4	872
571 18 41	41 G 1,0	41 × AWG 18	393,0	28,1	1009
571 18 50	50 G 1,0	50 × AWG 18	480,0	31,5	1283
571 16 02	2 X 1,5	2 × AWG 16	29,0	10,0	110
571 16 03	3 G 1,5	3 × AWG 16	43,0	10,5	127
571 16 04	4 G 1,5	4 × AWG 16	58,0	11,4	156
571 16 05	5 G 1,5	5 × AWG 16	72,0	13,3	216
571 16 07	7 G 1,5	7 × AWG 16	101,0	15,3	289
571 16 09	9 G 1,5	9 × AWG 16	130,0	18,1	407
571 16 12	12 G 1,5	12 × AWG 16	173,0	18,9	440
571 16 18	18 G 1,5	18 × AWG 16	259,0	21,6	617
571 16 25	25 G 1,5	25 × AWG 16	360,0	26,8	934
571 16 41	41 G 1,5	41 × AWG 16	591,0	31,9	1369
571 14 02	2 X 2,5	2 × AWG 14	48,0	13,0	173
571 14 03	3 G 2,5	3 × AWG 14	72,0	13,7	204
571 14 04	4 G 2,5	4 × AWG 14	96,0	14,8	252
571 14 07	7 G 2,5	7 × AWG 14	168,0	19,5	448
571 14 09	9 G 2,5	9 × AWG 14	216,0	22,2	591
571 14 12	12 G 2,5	12 × AWG 14	288,0	24,0	679
571 14 18	18 G 2,5	18 × AWG 14	432,0	27,7	1494
571 14 25	25 G 2,5	25 × AWG 14	600,0	33,8	1845
571 12 03	3 G 4	3 × AWG 12	188,0	15,9	294
571 12 04	4 G 4	4 × AWG 12	214,0	17,5	361
571 12 05	5 G 4	5 × AWG 12	285,0	18,9	437
571 10 03	3 G 6	3 × AWG 10	173,0	17,8	381
571 10 04	4 G 6	4 × AWG 10	286,0	19,2	478
571 10 05	5 G 6	5 × AWG 10	435,0	19,7	581
571 08 04	4 G 10	4 × AWG 8	470,0	25,5	854
571 08 05	5 G 10	5 × AWG 8	698,0	27,7	966
571 06 04	4 G 16	4 × AWG 6	795,0	28,9	1208
571 06 05	5 G 16	5 × AWG 6	1045,0	31,4	1390
571 04 04	4 G 25	4 × AWG 4	960,0	33,0	1688

Special needs, different dimensions or different outer sheath colours upon request.



CC-Control Cable-PUR-C-568

Halogen-free robust control cable 600V, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 568 E172073 cUL STYLE 20234 600V 80°C CE

The flexible CC-Control cable PUR-C-568 shielded UL/CSA has been developed for use in machineries where high mechanical stress occurs and where flexibility and extensive chemical resistance are required. The PUR-based outer sheath allows the cable to be used in- and outdoors as well as in sewage- and seawater. Additionally, the outer sheath is extensively resistant to acids and lye, to industrial solvents, as well as mineral and hydro-synthetic oils.

Construction

Fine strands of bare copper wire, TPE-based core insulation, cores are black with consecutive white numbering, cables with 3 cores or more contain a green/yellow protective conductor in the outer layer, cores twisted in layers in very short lay lengths, TPE-based inner sheath, tinned copper shield, fleece. PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1, IEC 60332-1 and UL VW-1). Colour black (RAL 9005).

Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-50°C to +105°C

Bending radius:
flexible installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0250, 0282
UL: Style 20234
CSA: AWM I/II A/B FT1
flame resistance: VW-1

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Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
568 18 03	3 G 1,0	3 × AWG 18	65,2	10,0	113
568 18 04	4 G 1,0	4 × AWG 18	78,3	10,7	155
568 18 05	5 G 1,0	5 × AWG 18	93,5	12,6	235
568 18 07	7 G 1,0	7 × AWG 18	145,0	14,4	279
568 18 12	12 G 1,0	12 × AWG 18	215,0	17,6	413
568 18 18	18 G 1,0	18 × AWG 18	301,0	20,0	554
568 18 25	25 G 1,0	25 × AWG 18	405,0	24,1	869
568 16 03	3 G 1,5	3 × AWG 16	87,5	10,8	136
568 16 04	4 G 1,5	4 × AWG 16	104,0	11,6	201
568 16 05	5 G 1,5	5 × AWG 16	143,0	13,6	267
568 16 07	7 G 1,5	7 × AWG 16	190,0	15,6	377
568 16 12	12 G 1,5	12 × AWG 16	290,0	19,2	513
568 16 18	18 G 1,5	18 × AWG 16	408,0	22,0	703
568 16 25	25 G 1,5	25 × AWG 16	552,0	27,2	1101
568 14 02	2 X 2,5	2 × AWG 14	134,0	13,9	255
568 14 03	3 G 2,5	3 × AWG 14	164,0	15,1	308
568 14 04	4 G 2,5	4 × AWG 14	195,0	17,2	395
568 14 07	7 G 2,5	7 × AWG 14	281,0	19,4	523
568 12 03	3 G 4	3 × AWG 12	205,0	16,2	352
568 12 04	4 G 4	4 × AWG 12	240,0	17,5	425
568 10 03	3 G 6	3 × AWG 10	337,0	18,1	447
568 10 04	4 G 6	4 × AWG 10	438,0	19,6	551
568 10 05	5 G 6	5 × AWG 10	532,0	20,1	663
568 08 04	4 G 10	4 × AWG 8	587,0	25,9	1003
568 06 04	4 G 16	4 × AWG 6	765,0	29,3	1337

Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world



CC-Schleppflex[®] PUR-C-(TP)-510

High flexible data cable paired, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 510 6x2x0,75 E 172073 cUL AWM STYLE 20235 300V 80°C CE

CC-Schleppflex PUR-C-(TP)-510 UL/CSA shielded is used for transmitting analogue and digital signals in power supply chains, sensor technology and to connect transmitters and sensors for measurement and control technology. It can be used in- and outdoors where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. Coordinated twisted lengths of the pairs ensure low coupling rates. The PUR outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine bare strands of copper wire, PVC core insulation, core colours acc. to DIN 47100. Cores twisted in pairs, special core wrapping, tinned copper shield, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, Teil 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Operating capacity at 800 Hz:
core/core approx. 120 nF/km

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
-5°C to +80°C

Bending radius:
7,5 \times cable diameter

Approvals:
acc. to VDE 0812
UL: Style 10042/20235
CSA: AWM I A/B, II A/B FT 1

Cross-section (mm²):	0,25	0,50	0,75	1,0
Rated voltage (Volt):	300	300	300	300
Test voltage (Volt):	2000	2000	2000	2000
Loop resistance (Ohm/km):	≤ 158	≤ 78	≤ 52	≤ 40

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Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
510 24 01	1 × 2 × 0,25	1 × 2 × AWG 24	14,0	5,0	27
510 24 02	2 × 2 × 0,25	2 × 2 × AWG 24	32,0	7,1	60
510 24 03	3 × 2 × 0,25	3 × 2 × AWG 24	38,4	7,4	72
510 24 04	4 × 2 × 0,25	4 × 2 × AWG 24	43,2	8,4	89
510 24 05	5 × 2 × 0,25	5 × 2 × AWG 24	51,5	9,0	103
510 24 06	6 × 2 × 0,25	6 × 2 × AWG 24	71,8	9,8	131
510 24 08	8 × 2 × 0,25	8 × 2 × AWG 24	74,4	11,5	155
510 24 10	10 × 2 × 0,25	10 × 2 × AWG 24	90,0	12,8	186
510 24 14	14 × 2 × 0,25	14 × 2 × AWG 24	111,2	13,4	219
510 20 01	1 × 2 × 0,5	1 × 2 × AWG 20	22,0	6,4	47
510 20 02	2 × 2 × 0,5	2 × 2 × AWG 20	50,0	9,3	99
510 20 03	3 × 2 × 0,5	3 × 2 × AWG 20	71,8	10,0	130
510 20 04	4 × 2 × 0,5	4 × 2 × AWG 20	74,4	11,1	148
510 20 05	5 × 2 × 0,5	5 × 2 × AWG 20	84,5	11,9	168
510 20 06	6 × 2 × 0,5	6 × 2 × AWG 20	99,6	12,8	194
510 20 08	8 × 2 × 0,5	8 × 2 × AWG 20	144,3	15,7	284
510 20 10	10 × 2 × 0,5	10 × 2 × AWG 20	176,0	17,6	343
510 20 14	14 × 2 × 0,5	14 × 2 × AWG 20	215,4	18,3	401
510 19 01	1 × 2 × 0,75	1 × 2 × AWG 19	34,0	6,9	61
510 19 02	2 × 2 × 0,75	2 × 2 × AWG 19	60,0	9,7	112
510 19 03	3 × 2 × 0,75	3 × 2 × AWG 19	85,7	10,9	157
510 19 04	4 × 2 × 0,75	4 × 2 × AWG 19	93,6	11,5	172
510 19 05	5 × 2 × 0,75	5 × 2 × AWG 19	113,0	12,5	202
510 19 06	6 × 2 × 0,75	6 × 2 × AWG 19	130,4	13,4	231
510 19 08	8 × 2 × 0,75	8 × 2 × AWG 19	192,2	16,4	342
510 19 10	10 × 2 × 0,75	10 × 2 × AWG 19	258,0	19,3	466
510 19 14	14 × 2 × 0,75	14 × 2 × AWG 19	316,6	20,0	545
510 18 01	1 × 2 × 1,0	1 × 2 × AWG 18	42,0	7,3	71
510 18 02	2 × 2 × 1,0	2 × 2 × AWG 18	73,0	10,3	129
510 18 03	3 × 2 × 1,0	3 × 2 × AWG 18	93,6	11,4	169
510 18 04	4 × 2 × 1,0	4 × 2 × AWG 18	117,8	12,3	204
510 18 05	5 × 2 × 1,0	5 × 2 × AWG 18	139,0	13,3	237

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-C-(TP)-512

Superflexible halogen-free data cable paired, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt Schleppflex-C-(TP)-512 CE

CC-Schleppflex PUR-C-(TP)-512 shielded is used for transmitting analogue and digital signals in power supply chains, sensor technology and to connect transmitters and sensors for measurement and control technology. It can be used in- and outdoors where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. Coordinated twisted lengths of the pairs ensure low coupling rates. The PUR outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine bare strands of copper wire, polyester (TPE) core insulation, core colours acc. to DIN 47100. Cores twisted in pairs, fleece, tinned copper shield, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30 °C to +80 °C

Bending radius:
7,5 × cable diameter

Approval:
acc. to VDE 0812

Cross-section (mm ²):	0,25	0,50	0,75	1,0
Rated voltage (Volt):	250	250	250	250
Test voltage (Volt):	1500	1500	1500	1500
Loop resistance (Ohm/km):	≤ 158	≤ 78	≤ 52	≤ 40
Operating capacity (nF/km) at 800 Hz	approx. 80	approx. 77	approx. 75	approx. 75

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
512 0002 001	1 × 2 × 0,25	14,0	4,9	36
512 0002 002	2 × 2 × 0,25	31,0	6,0	46
512 0002 003	3 × 2 × 0,25	40,6	6,5	57
512 0002 004	4 × 2 × 0,25	45,0	6,9	73
512 0002 005	5 × 2 × 0,25	50,6	8,1	88
512 0002 006	6 × 2 × 0,25	73,5	8,6	102
512 0002 008	8 × 2 × 0,25	78,3	9,8	118
512 0002 010	10 × 2 × 0,25	94,0	10,6	165
512 0002 014	14 × 2 × 0,25	113,5	12,0	204
512 0005 001	1 × 2 × 0,5	38,4	5,6	45
512 0005 002	2 × 2 × 0,5	51,8	7,7	102
512 0005 003	3 × 2 × 0,5	70,4	8,6	134
512 0005 004	4 × 2 × 0,5	77,0	9,2	155
512 0005 005	5 × 2 × 0,5	78,2	10,2	183
512 0005 006	6 × 2 × 0,5	104,0	11,0	208
512 0005 008	8 × 2 × 0,5	142,0	12,2	264
512 0005 010	10 × 2 × 0,5	173,0	14,3	315
512 0005 014	14 × 2 × 0,5	227,0	15,5	383
512 0007 001	1 × 2 × 0,75	37,0	6,0	66
512 0007 002	2 × 2 × 0,75	58,0	8,5	106
512 0007 003	3 × 2 × 0,75	90,0	9,4	145
512 0007 004	4 × 2 × 0,75	109,0	10,3	175
512 0007 005	5 × 2 × 0,75	126,0	11,3	210
512 0007 006	6 × 2 × 0,75	141,0	12,4	239
512 0007 008	8 × 2 × 0,75	186,0	13,7	315
512 0007 010	10 × 2 × 0,75	248,0	16,2	392
512 0007 014	14 × 2 × 0,75	326,0	17,6	469
512 0010 001	1 × 2 × 1,0	41,0	6,2	81
512 0010 002	2 × 2 × 1,0	78,0	8,9	138
512 0010 003	3 × 2 × 1,0	91,0	9,8	181
512 0010 004	4 × 2 × 1,0	121,0	10,8	224
512 0010 005	5 × 2 × 1,0	145,0	11,8	255

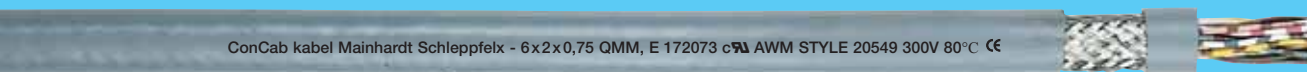
With UL/CSA approval upon request

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Schleppflex® PUR-C-(TP)-513

Low capacitance, superflexible halogen-free data cable paired, shielded
Conforms to EU low-voltage guideline 73/23/EWG CE



ConCab kabel Mainhardt Schleppflex - 6x2x0,75 QMM, E 172073 cUL AWM STYLE 20549 300V 80°C CE

CC-Schleppflex PUR-C-(TP)-513 shielded UL/CSA with low capacitance is used for the disturbance free transmission of analogue and digital signals in power supply chains, sensor technology and for the connection of transmitters and sensors for measurement and control technology. It can be used in- and outdoors where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences. Coordinated twisting lengths of the pairs ensure low coupling rates. The PUR outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine bare strands of copper wire, polyolefin core insulation, core colours acc. to DIN 47100. Cores twisted in pairs, fleece, tinned copper shield, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Operation capacity at 800 Hz:
core/core approx. 60 nF/km
core/shield approx. 160 nF/km

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0812
UL: Style 20549, 20233, CMX
CSA: AWM C22.2 N 210.2-M90 FT 1

Cross-section (mm²):	0,25	0,50	0,75	1,0
Rated voltage VDE / UL, CSA (Volt):	300	300	300	300
Test voltage (Volt):	1500	1500	1500	1500
Loop resistance (Ohm/km):	≤ 158	≤ 78	≤ 52	≤ 40

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
513 26 01	1 × 2 × 0,14	1 × 2 × AWG 26	9,5	4,0	23
513 26 02	2 × 2 × 0,14	2 × 2 × AWG 26	14,5	5,1	33
513 26 03	3 × 2 × 0,14	3 × 2 × AWG 26	18,0	5,3	35
513 26 04	4 × 2 × 0,14	4 × 2 × AWG 26	21,8	5,7	41
513 26 05	5 × 2 × 0,14	5 × 2 × AWG 26	25,8	6,1	47
513 26 06	6 × 2 × 0,14	6 × 2 × AWG 26	29,8	6,8	55
513 26 08	8 × 2 × 0,14	8 × 2 × AWG 26	38,3	7,6	74
513 26 10	10 × 2 × 0,14	10 × 2 × AWG 26	48,8	8,2	83
513 24 01	1 × 2 × 0,25	1 × 2 × AWG 24	13,0	4,4	37
513 24 02	2 × 2 × 0,25	2 × 2 × AWG 24	20,8	5,8	43
513 24 03	3 × 2 × 0,25	3 × 2 × AWG 24	26,6	6,1	46
513 24 04	4 × 2 × 0,25	4 × 2 × AWG 24	35,5	6,7	58
513 24 05	5 × 2 × 0,25	5 × 2 × AWG 24	42,3	7,2	69
513 24 06	6 × 2 × 0,25	6 × 2 × AWG 24	49,1	7,7	79
513 24 08	8 × 2 × 0,25	8 × 2 × AWG 24	63,3	9,3	116
513 24 10	10 × 2 × 0,25	10 × 2 × AWG 24	75,2	9,9	124
513 24 14	14 × 2 × 0,25	14 × 2 × AWG 24	101,7	10,7	159
513 22 01	1 × 2 × 0,34	1 × 2 × AWG 22	16,0	4,6	36
513 22 02	2 × 2 × 0,34	2 × 2 × AWG 22	24,8	6,1	50
513 22 03	3 × 2 × 0,34	3 × 2 × AWG 22	32,3	6,4	54
513 22 04	4 × 2 × 0,34	4 × 2 × AWG 22	40,2	7,0	66
513 22 05	5 × 2 × 0,34	5 × 2 × AWG 22	48,4	7,5	77
513 22 06	6 × 2 × 0,34	6 × 2 × AWG 22	60,2	8,2	99
513 22 08	8 × 2 × 0,34	8 × 2 × AWG 22	78,0	10,0	136
513 22 10	10 × 2 × 0,34	10 × 2 × AWG 22	93,2	10,5	146
513 20 01	1 × 2 × 0,5	1 × 2 × AWG 20	22,0	5,8	51
513 20 02	2 × 2 × 0,5	2 × 2 × AWG 20	39,1	7,9	81
513 20 03	3 × 2 × 0,5	3 × 2 × AWG 20	55,3	8,5	91
513 20 04	4 × 2 × 0,5	4 × 2 × AWG 20	68,8	9,6	117
513 20 05	5 × 2 × 0,5	5 × 2 × AWG 20	82,4	10,4	138
513 20 06	6 × 2 × 0,5	6 × 2 × AWG 20	96,2	11,4	164
513 20 08	8 × 2 × 0,5	8 × 2 × AWG 20	131,0	13,7	242
513 20 10	10 × 2 × 0,5	10 × 2 × AWG 20	156,0	14,5	257
513 20 14	14 × 2 × 0,5	14 × 2 × AWG 20	206,0	15,7	327
513 19 01	1 × 2 × 0,75	1 × 2 × AWG 19	44,0	6,4	108
513 19 02	2 × 2 × 0,75	2 × 2 × AWG 19	54,2	9,2	113
513 19 03	3 × 2 × 0,75	3 × 2 × AWG 19	71,2	9,8	121
513 19 04	4 × 2 × 0,75	4 × 2 × AWG 19	89,1	10,5	147
513 19 05	5 × 2 × 0,75	5 × 2 × AWG 19	108,0	11,7	179
513 19 06	6 × 2 × 0,75	6 × 2 × AWG 19	126,1	12,6	207
513 19 08	8 × 2 × 0,75	8 × 2 × AWG 19	171,0	15,2	307
513 19 10	10 × 2 × 0,75	10 × 2 × AWG 19	205,0	16,1	327
513 19 14	14 × 2 × 0,75	14 × 2 × AWG 19	271,0	17,8	435
513 18 01	1 × 2 × 1,0	1 × 2 × AWG 18	58,0	6,7	105
513 18 02	2 × 2 × 1,0	2 × 2 × AWG 18	65,5	9,6	126
513 18 03	3 × 2 × 1,0	3 × 2 × AWG 18	87,6	10,1	138
513 18 04	4 × 2 × 1,0	4 × 2 × AWG 18	111,0	11,0	169
513 18 05	5 × 2 × 1,0	5 × 2 × AWG 18	135,0	12,1	206

CC-Feedback and Sensor Cable PVC-C-251

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt C-251 CE

CC-Feedback and Sensor Cable PVC-C-251 is used for exact data and signal transmission for machinery and control engineering. Additional cores ensure the power supply of each component. The PVC-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Construction

LiYCY [10 × 0,14 + 2 × 0,5]

Fine strands of bare copper wire; PVC-based core insulation, core colours acc. to DIN 47100. At 0,5 mm² colour repetition, cores twisted in layers, foil wrapping, tinned drain wire, tinned copper shield, PVC outer sheath.

LiYCY [10 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours 0,4 mm²: wh, bn, gn, ye, gy, pk, bu, rd, bk, vt. Core colours 0,5 mm²: wh, bn, bu, bk. Alternatively (part.-no- 242 1001 440): Core colours acc. to DIN 47100 starting at 0,5 mm².

LiYCY [15 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours acc. to DIN 47100 starting at 0,5 mm².

LiYDY-CY [3 × (2 × 0,14) + 2 × 0,5]

Fine strands of bare copper wire, PVC-based core insulation. Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd, twisted in pairs, tinned copper shield, PVC sheath. Core colours 0,5 mm²: wh, bn. Cores and pairs twisted together, foil wrapping, tinned drain wire, overall tinned copper shield, PVC outer sheath.

LiYDY-CY [3 × (2 × 0,14) + 2 × (0,5)]

Fine strands of bare copper wires, PVC-based core insulation. Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd. Core colours 0,5 mm²: wh, bn. Pairs 0,14 mm²: special core wrapping, tinned copper shield, PVC sheath. Cores 0,5 mm²: foil wrapping, tinned copper shield, PVC sheath, cores and pairs twisted together, foil wrapping, tinned drain wire, tinned copper shield, PVC outer sheath.

LiYCY [3 × 2 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Cores 0,14 mm² twisted in pairs, Core colours 0,14 mm²: bn/bk, gn/gy, pk/rd. Core colours 0,5 mm²: wh, bu, whgn, bngn. Cores and pairs twisted together.

LiYCY [4 × 2 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours 0,14 mm²: rd/bk, bn/gn, ye/vt, gy/pk. Core colours 0,5 mm²: wh, bu, whgn, bngn. Cores and pairs twisted together.

LiYCY [4 × 2 × 0,25 + 2 × 1]

Construction as described under No. 1. Pair colours 0,25 mm²: rd/bk, bn/gn, gy/pk, bu/vt. Core colours 1,0 mm²: wh, bn. Cores and pairs twisted together.

LiYCY [4 × 2 × 0,38 + 4 × 0,5]

Superfine copper strands acc. to VDE 0295, class 6. PVC-based core insulation. Core colours 0,5 mm²: bk, bu, ye, rd. Core colours 0,38 mm²: ye/gn, og/rd, bn/bk, bu/vt. Cores and pairs twisted together, foil wrapping, tinned drain wire, tinned copper shield.

LiYCY [9 × 0,5] Feedback cable:

Construction described under No. 1. Core colours: bu, wh, rd, pk, gn, ye, bn, bk, gy.

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Part-No.	No. of cores + cross-section	System	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
251 1001 205	LiYCY [10 × 0,14 + 2 × 0,5]	Heidenhain	46,1	8,0	75
242 1001 440	LiYCY [10 × 0,14 + 4 × 0,5]	Heidenhain	56,0	8,2	95
251 1001 405	LiYCY [10 × 0,14 + 4 × 0,5]	Bosch	56,0	8,2	95
251 1501 405	LiYCY [15 × 0,14 + 4 × 0,5]	Bosch	60,0	8,8	140
252 3201 205	LiYDY-DY [3 × (2 × 0,14) + 2 × 0,5]	Indramat	61,0	8,0	100
253 3201 205	LiYDY-DY [3 × (2 × 0,14) + 2 × (0,5)]	Heidenhain	69,6	8,0	110
251 3201 405	LiYCY [3 × 2 × 0,14 + 4 × 0,5]	Heidenhain	50,5	8,0	98
251 4201 405	LiYCY [4 × 2 × 0,14 + 4 × 0,5]	Heidenhain	59,5	8,0	96
251 4202 210	LiYCY [4 × 2 × 0,25 + 2 × 1,0]	Indramat	72,0	8,8	120
251 4203 405	LiYCY [4 × 2 × 0,38 + 4 × 0,5]	Sinumerik	81,5	9,9	145
251 905	LiYCY [9 × 0,5]	Indramat	73,0	8,8	125

Technical data

Rated voltage:
up to 0,38 mm²: 300 V
from 0,5 mm²: 500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-5°C to +80°C

Bending radius:
10 × cable diameter

Outer sheath colour:
grey (RAL 7001)

Approvals:
acc. to VDE 0281, 0812

Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world

CC-Feedback and Sensor Cable PVC-C-251

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 251 3x2 x0,14 + 2x0,5 E 172073 cUL AWM STYLE 2464 300V 80°C DESINA CE

CC-Feedback and Sensor Cable PVC-C-251 UL/CSA and DESINA[®]-conforming, is used for exact data and signal transmission for machinery- and control engineering. Additional cores ensure the power supply of each component. The PVC-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Construction

LiYCY [10 × 0,14 + 2 × 0,5]

Fine strands of bare copper wire; PVC-based core insulation, core colours acc. to DIN 47100. At 0,5 mm² colour repetition, cores twisted in layers, foil wrapping, tinned drain wire, tinned copper shield, PVC outer sheath. Colour DESINA[®] green.

LiYCY [10 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours 0,14 mm²: wh, bn, gn, ye, gy, pk, bu, rd, bk, vt. Core colours 0,5 mm²: wh, bn, bu, bk.

LiYCY [15 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours acc. to DIN 47100 starting at 0,5 mm².

LiYDY-CY [3 × (2 × 0,14) + 2 × 0,5]

Fine strands of bare copper wire, PVC-based core insulation. Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd, twisted in pairs, tinned copper shield, PVC sheath. Core colours 0,5 mm²: wh, bn. Cores and pairs twisted together, foil wrapping, tinned drain wire, overall tinned copper shield, PVC outer sheath.

LiYDY-CY [3 × (2 × 0,14) + 2 × (0,5)]

Fine strands of bare copper wires, PVC-based core insulation. Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd. Core colours 0,5 mm²: wh, bn. Pairs 0,14 mm²: special core wrapping, tinned copper shield, PVC sheath. Cores 0,5 mm²: foil wrapping, tinned copper shield, PVC sheath, cores and pairs twisted together, foil wrapping, tinned drain wire, tinned copper shield, PVC outer sheath.

LiYCY [3 × 2 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Cores 0,14 mm² twisted in pairs. Core colours 0,14 mm²: bn/bk, gn/gy, pk/rd. Core colours 0,5 mm²: wh, bu, whgn, bngn. Cores and pairs twisted together.

LiYCY [4 × 2 × 0,14 + 4 × 0,5]

Construction as described under No.1. Core colours 0,14 mm²: rd/bk, bn/gn, ye/vt, gy/pk. Core colours 0,5 mm²: wh, bu, whgn, bngn. Cores and pairs twisted together.

LiYCY [4 × 2 × 0,25 + 2 × 1]

Construction as described under No. 1. Pair colours 0,25 mm²: rd/bk, bn/gn, gy/pk, bu/vt. Core colours 1,0 mm²: wh, bn. Cores and pairs twisted together.

LiYCY [4 × 2 × 0,38 + 4 × 0,5]

Superfine copper strands acc. to VDE 0295, class 6. PVC-based core insulation. Core colours 0,5 mm²: bk, bu, ye, rd. Core colours 0,38 mm²: ye/gn, og/rd, bn/bk, bu/vt. Cores and pairs twisted together, foil wrapping, tinned drain wire, tinned copper shield.

LiYCY [9 × 0,5] Feedback cable:

Construction described under No. 1. Core colours: bu, wh, rd, pk, gn, ye, bn, bk, gy.

Part-No.	No. of cores + cross-section/AWG	System	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
251 1001 205 10	LiYCY [10 × 0,14/AWG 26 + 2 × 0,5/AWG 20]	Heidenhain	46,1	8,0	75
251 1001 405 10	LiYCY [10 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Bosch	56,0	8,2	95
251 1501 405 10	LiYCY [15 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Bosch	60,0	8,8	140
252 3201 205 10	LiYDY-CY [3 × (2 × 0,14/AWG 26) + 2 × 0,5/AWG 20]	Indramat	61,0	8,0	100
253 3201 205 10	LiYDY-CY [3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]	Heidenhain	69,6	8,0	110
252 3201 4012 0510	LiYDY-CY [3 × (2 × 0,14/AWG 26) + 4 × 0,14 + 2 × 0,5/AWG20]	Sinumerik	72,0	9,0	126
251 3201 405 10	LiYCY [3 × 2 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Heidenhain	50,5	8,0	98
251 4201 405 10	LiYCY [4 × 2 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Heidenhain	59,5	8,0	96
251 4202 210 10	LiYCY [4 × 2 × 0,25/AWG 24 + 2 × 1,0/AWG 18]	Indramat	72,0	8,8	120
251 4203 405 10	LiYCY [4 × 2 × 0,38/AWG 22 + 4 × 0,5/AWG 20]	Sinumerik	81,5	9,9	145
251 905 10	LiYCY [9 × 0,5/AWG 20]	Indramat	73,0	8,8	125



Technical Data

Rated voltage:

VDE/IEC up to 0,38 mm² : 300 V
 from 0,50 mm² : 500 V
 UL/CSA : 300 V

Test voltage:

2000 V

Conductor stranding:

fine bare copper strands,
 acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

-5°C to +80°C

Bending radius:

10 × cable diameter

Outer sheath colour:

DESINA®-green (RAL 6018)

Approvals:

acc. to VDE 0281, 0812
 UL: Style 1061/2464
 CSA: AWM

Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world

CC-Feedback and Sensor Cable PUR-C-181



Superflexible halogen-free, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt C-181 CE

CC-Feedback and Sensor Cable PUR-C-181 shielded is used for exact data and signal transmission for machine and control engineering in power supply chains, handling equipment and robots. It can be used in- and outdoors. Additional cores ensure the power supply of each component. The overall copper shield ensures exact signal transmission and protects the cable against electromagnetic disturbances and influences. The PUR-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes, highly cut and notch resistant and non-abrasive.

Construction

LiF12YC11Y [10 × 0,14 + 2 × 0,5]

Superfine strands of bare copper wire. Polyester (TPE) core insulation, core colours acc. to DIN 47100, at 0,5 mm² colour repetition, cores twisted in layers, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF12YC11Y [10 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours 0,14 mm²: wh, bn, gn, ye, gy, pk, bu, rd, bk, vt. Core colours 0,5 mm²: wh, bn, bu, bk.

LiF12YC11Y [15 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours acc. to DIN 47100 starting at 0,5 mm².

LiF12YD12YC11Y [3 × (2 × 0,14) + 2 × (0,5)]

Part No. 183 3201 205

Superfine strands of bare copper wire
Polyester (TPE) core insulation.
Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd, twisted in pairs, foil wrapping, tinned copper shield.
Polyester (TPE) sheath. Cores 0,5 mm²: wh, bn, each core shielded, polyester (TPE) sheath.
Cores and pairs twisted together, fleece, tinned drain wire, overall tinned copper shield, PUR outer sheath.

Part No. 132 3201 205

Construction as Part No. 183 3201 205 except core colours 0,14 mm²: gn/ye, rd/og, bk/bn. Core colours 0,5 mm²: bk, rd.

LiF12YD12YC11Y [3 × (2 × 0,14) + 2 × 1,0]

Superfine strands of tinned copper wires.
Polyester (TPE) core insulation.
Core colours 0,14 mm²: gn/ye, gy/pk, rd/bu, twisted in pairs, foil wrapping, tinned copper shield, polyester (TPE) sheath.
Core colours 1,0 mm²: wh, bn, cores and pairs twisted together in layers, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF12YC11Y [4 × 2 × 0,14 + 4 × 0,5]

Construction as described under No. 1. Core colours 0,14 mm²: bn/gn, ye/vt, gy/pk, rd/bk. Core colours 0,5 mm²: wh, bu, whgn, bngn. Cores and pairs twisted together.

LiF12YC11Y [4 × 2 × 0,25 + 2 × 1,0]

Construction as described under No. 1. Core colours 0,25mm²: rd/bk, bn/gn, gy/pk, bu/vt. Cores and pairs twisted together.

LiF12YC11Y [4 × 2 × 0,38 + 4 × 0,5]

Superfine strands of bare copper wires.
Polyester (TPE) core insulation.
Core colours 0,5 mm²: bk, bu, ye, rd. Core colours 0,38 mm²: ye/gn, og/rd, bn/bk, bu/vt. Cores and pairs twisted together, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF12YC11Y [9 × 0,5]

Construction as described under No. 1. Core colours: bu, wh, rd, pk, gn, ye, bn, bk, gy.

Part-No.	No. of cores + cross-section	Outer sheath colour	System	Copper weight	Outer diameter approx.	Weight
				kg/km	mm	kg/km
181 1001 205	LiF12YC11Y [10 × 0,14 + 2 × 0,5]	orange	Heidenhain	46,1	8,0	70
181 1001 405	LiF12YC11Y [10 × 0,14 + 4 × 0,5]	orange	Bosch	56,0	8,0	85
181 1501 405	LiF12YC11Y [15 × 0,14 + 4 × 0,5]	orange	Bosch	60,0	8,8	127
183 3201 205	LiF12YD12YC11Y [3 × (2 × 0,14) + 2 × (0,5)]	orange	Heidenhain	69,6	8,3	100
132 3201 205	LiF12YD12YC11Y [3 × (2 × 0,14) + 2 × (0,5)]	petrol	Sinumerik	82,0	9,7	100
182 3201 210	LiF12YD12YC11Y [3 × (2 × 0,14) + 2 × 1,0]	orange	Heidenhain	60,0	8,4	108
181 4201 405	LiF12YC11Y [4 × 2 × 0,14 + 4 × 0,5]	orange	HeidenhainIn	55,3	8,2	109
181 4202 205	LiF12YC11Y [4 × 2 × 0,25 + 2 × 0,5]	orange	Indramat	63,0	8,8	124
181 4202 210	LiF12YC11Y [4 × 2 × 0,25 + 2 × 1,0]	orange	Indramat	72,0	8,8	134
181 4203 405	LiF12YC11Y [4 × 2 × 0,38 + 4 × 0,5]	orange	Sinumerik	81,5	8,6	203
131 4203 405	LiF12YC11Y [4 × 2 × 0,38 + 4 × 0,5]	petrol	Sinumerik	81,5	8,6	134
181 905	LiF12YC11Y [9 × 0,5]	orange	Indramat	73,0	8,8	125
182 3201 401 205	LiF12YC11Y [3 × (2 × 0,14) + 4 × 0,14 + 2 × 0,5]	petrol	Sinumerik	71,5	9,0	126
142 3201 401	LiF12YC11Y [3 × (2 × 0,14) + 4 × 0,14 + 4 × 0,23 + 2 × 0,5]	petrol	Sinumerik	84,1	10,3	148
181 2201 8	LiF12YC11Y [2 × 2 × 0,18]	petrol	Sinumerik	23,5	5,6	44
181 4201 8	LiF12YC11Y [4 × 2 × 0,18]	petrol	Sinumerik	32,4	6,5	56
181 8201 8	LiF12YC11Y [8 × 2 × 0,18]	petrol	Sinumerik	71,3	8,6	125
181 1202 3	LiF12YC11Y [12 × 0,23]	petrol	Sinumerik	59,0	7,3	132
181 1220 25	LiF12YC11Y [12 × (2 × 0,25)]	petrol	Sinumerik	115,0	12,5	206
182 4201 4	LiF12YD12YC11Y [(4 × 2 × 0,14)]	black	Heidenhain	32,3	6,1	91
181 4201 402	LiF12YC11Y [4 × 2 × 0,14 + 4 × 0,25]	black	Heidenhain	38,5	6,1	95

Technical data

Rated voltage:

up to 0,38 mm²: 300 V
from 0,50 mm²: 500 V

Test voltage:

2000 V

Conductor stranding:

superfine bare copper strands,
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

flexible application: - 30°C to + 80°C

Bending radius:

10 × cable diameter

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Feedback and Sensor Cable PUR-C-181



Superflexible halogen-free, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 181 (3x2x0,14+2x0,5) E 172073 cAWM STYLE 20233 300V 80°C DESINA CE



CC-Feedback and Sensor Cable PUR-C-181 shielded UL/CSA and *DESINA*[®] conforming is used for exact data and signal transmission for machinery and control engineering in power supply chains, handling equipment and robots. It can be used in- and outdoors. Additional cores ensure the power supply of each component. The overall copper shield ensures exact signal transmission and protects the cable against electromagnetic disturbances and influences. The PUR-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 and EN 50265-2-1 resp. IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes, highly cut and notch resistant and non-abrasive.

Construction

LiF12YC11Y [10 × 0,14/AWG 26 + 2 × 0,5/AWG 20]

Superfine strands of bare copper wire. Polyester (TPE) core insulation, core colours acc. to DIN 47100, at 0,5 mm² colour repetition, cores twisted in layers, fleece, tinned drain wire, tinned copper shield, PUR outer sheath. Colour *DESINA*[®]-green.

LiF12YC11Y [10 × 0,14/AWG 26 + 4 × 0,5/AWG 20]

Construction as described under No. 1. Core colours 0,14 mm²: wh, bn, gn, ye, gy, pk, bu, rd, bk, vt. Core colours 0,5 mm²: wh, bn, bu, bk.

LiF12YC11Y [15 × 0,14/AWG 26 + 4 × 0,5/AWG 20]

Construction as described under No. 1. Core colours acc. to DIN 47100 starting at 0,5 mm².

LiF12YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]

Part No. 183 3201 205 10

Superfine strands of bare copper wire. Polyester (TPE) core insulation.

Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd, twisted in pairs, foil wrapping, tinned copper shield. Polyester (TPE) sheath.

Core colours: 0,5 mm²: wh, bn, each core shielded, polyester (TPE) sheath. Cores and pairs twisted together, fleece, tinned drain wire, overall tinned copper shield, PUR outer sheath.

Part No. 132 3201 205 10

Construction as Part No. 183 3201 205 10 except core colours 0,14 mm²: gn/ye, rd/og, bk/bn. Core colours 0,5 mm²: bk, rd.

LiF12YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × 1,0/AWG 18]

Superfine strands of tinned copper wires.

Polyester (TPE) core insulation.

Core colours 0,14 mm²: gn/ye, gy/pk, rd/bu, twisted in pairs, foil wrapping, tinned copper shield.

Polyester (TPE) sheath.

Core colours 1,0 mm²: wh, bn, cores and pairs twisted together in layers, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF12YC11Y [4 × 2 × 0,14/AWG 26 + 4 × 0,5/AWG 20]

Construction as described under No. 1.

Core colours 0,14 mm²: bn/gn, ye/vt, gy/pk, rd/bk.

Core colours 0,5 mm²: wh, bu, whgn, bngn.

Cores and pairs twisted together.

LiF12YC11Y [4 × 2 × 0,25/AWG 24 + 2 × 1,0/AWG 18]

Construction as described under No. 1.

Core colours 0,25mm²: rd/bk, bn/gn, gy/pk, bu/vt.

Cores and pairs twisted together.

LiF12YC11Y [4 × 2 × 0,38/AWG 22 + 4 × 0,5/AWG 20]

Superfine strands of bare copper wires.

Polyester (TPE) core insulation.

Core colours 0,5 mm²: bk, bu, ye, rd.

Core colours 0,38 mm²: ye/gn, og/rd, bn/bk, bu/vt.

Cores and pairs twisted together, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF12YC11Y [9 × 0,5/AWG 20]

Construction as described under No. 1.

Core colours: bu, wh, rd, pk, gn, ye, bn, bk, gy.

Part-No.	No. of cores + cross-section/AWG	System	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
181 1001 205 10	LiF12YC11Y [10 × 0,14/AWG 26 + 2 × 0,5/AWG 20]	Heidenhain	46,1	8,0	70
181 1001 405 10	LiF12YC11Y [10 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Heidenhain	56,0	8,0	85
181 1501 405 10	LiF12YC11Y [15 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Bosch	60,0	8,8	127
183 3201 205 10	LiF12YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]	Heidenhain	74,0	9,4	104
132 3201 205 10	LiF12YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]	Sinumerik	82,0	9,7	105
182 3201 210 10	LiF12YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × 1,0/AWG 18]	Heidenhain	60,0	8,8	108
181 4201 405 10	LiF12YC11Y [4 × 2 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Heidenhain	55,3	8,2	109
181 4202 205 10	LiF12YC11Y [4 × 2 × 0,25/AWG 24 + 2 × 0,5/AWG 20]	Indramat	63,0	8,8	124
181 4202 210 10	LiF12YC11Y [4 × 2 × 0,25/AWG 24 + 2 × 1,0/AWG 18]	Indramat	72,0	8,8	134
181 4203 405 10	LiF12YC11Y [4 × 2 × 0,38/AWG 21 + 4 × 0,5/AWG 20]	Sinumerik	81,5	8,6	203
181 905 10	LiF12YC11Y [9 × 0,5/AWG 20]	Indramat	73,0	8,8	125
182 3201 401 205 10	LiF12YD12YC11Y [3 × (2 × 0,14) + 4 × 0,14 + 2 × 0,5] [3 × (2 × AWG 26) + 4 × AWG 26 + 2 × AWG 20]	Sinumerik	71,5	9,0	126
142 3201 401 10	LiF12YD12YC11Y [3 × (2 × 0,14) + 4 × 0,14 + 4 × 0,23 + 2 × 0,5] [3 × (2 × AWG 26) + 4 × AWG 26 + 4 × AWG 24 + 2 × AWG 20]	Sinumerik	84,1	10,3	148
181 2201 8 10	LiF12YC11Y [2 × 2 × 0,18/AWG 25]	Sinumerik	23,5	5,6	44
181 4201 8 10	LiF12YC11Y [4 × 2 × 0,18/AWG 25]	Sinumerik	32,4	6,5	56
181 8201 8 10	LiF12YC11Y [8 × 2 × 0,18/AWG 25]	Sinumerik	71,3	8,6	125
181 1202 3 10	LiF12YC11Y [12 × 0,23/AWG 24]	Sinumerik	59,0	7,1	132
182 1220 25 10	LiF12YD12YC11Y [12 × (2 × 0,25/AWG 24)]	Sinumerik	115,0	12,5	206
182 4201 4 00	LiF12YD12YC11Y [(4 × 2 × 0,14/AWG 26)] black	Heidenhain	32,3	6,1	91
181 4201 402 00	LiF12YC11Y [4 × 2 × 0,14/AWG 26 + 4 × 0,25/AWG 24] black	Heidenhain	38,5	6,1	95

Technical data

Rated voltage:
VDE/IEC: up to 0,38 mm²: 300 V
from 0,50 mm²: 500 V
UL/CSA: 300 V

Test voltage:
2000 V

Conductor stranding:
superfine bare copper strands,
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
- 30°C to + 80°C

Bending radius:
10 × cable diameter

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

Outer sheath colour:
DESINA®-green (RAL 6018)

Approvals:
acc. to VDE 0245, 0281, 0812
UL: Style 10042/20233
Style 10263/20234
CSA: AWM



CC-Feedback and Sensor Cable PUR-C-281



Low capacitance superflexible halogen-free, shielded
Conforms to EU low-voltage guideline 73/23/EWG CE



ConCab kabel Mainhardt - 281 (4x2x0,14+4x0,5) E 172073 cAWM STYLE 20233 300V 80°C DESINA CE



CC-Feedback and Sensor Cable PUR-C-281 shielded UL/CSA and *DESINA*[®] conforming is used for exact data and signal transmission with low capacity for machinery and control engineering in power supply chains, handling equipment and robots. It can be used in- and outdoors. Additional cores ensure the power supply of each component. The overall copper shield ensures exact signal transmission and protects the cable against electromagnetic disturbances and influences. The PUR-based outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 and EN 50265-2-1 resp. IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes, highly cut and notch resistant and non-abrasive.

Construction

LiF9YC11Y [10 × 0,14/AWG 26 + 2 × 0,5/AWG 20]
Superfine strands of bare copper wire. Polypropylen (PP) core insulation, core colours acc. to DIN 47100, at 0,5 mm² colour repetition, cores twisted in layers, fleece, tinned drain wire, tinned copper shield, PUR outer sheath. Colour *DESINA*[®]-green.

LiF9YC11Y [10 × 0,14/AWG 26 + 4 × 0,5/AWG 20]
Construction as described under No. 1. Core colours 0,14 mm²: wh, bn, gn, ye, gy, pk, bu, rd, bk, vt.
Core colours 0,5 mm²: wh, bn, bu, bk.

LiF9YC11Y [15 × 0,14/AWG 26 + 4 × 0,5/AWG 20]
Construction as described under No. 1.
Core colours acc. to DIN 47100 starting at 0,5 mm².

LiF9YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]
Part No. 283 3201 205 10
Superfine strands of bare copper wire. Polypropylen core insulation. Core colours 0,14 mm²: gn/ye, gy/pk, bu/rd, twisted in pairs, foil wrapping, tinned copper shield. Polyester (TPE) sheath. Cores 0,5 mm²: wh, bn, each core shielded, polyester (TPE) sheath. Cores and pairs twisted together, fleece, tinned drain wire, overall tinned copper shield, PUR outer sheath.

Part No. 232 3201 205 10
Construction as Part No. 283 3201 205 10 except core colours 0,14 mm²: gn/ye, rd/og, bk/bn.
Core colours 0,5 mm²: bk, rd.

LiF9YD12YC11Y [3 × (2 × 0,14/AWG 26) + 2 × 1,0/AWG 18]
Superfine strands of tinned copper wires. Polypropylen core insulation. Core colours 0,14 mm²: gn/ye, gy/pk, rd/bu, twisted in pairs, foil wrapping, tinned copper shield, polyester (TPE) sheath. Core colours 1,0 mm²: wh, bn, cores and pairs twisted together in layers, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF9YC11Y [4 × 2 × 0,14/AWG 26 + 4 × 0,5/AWG 20]
Construction as described under No. 1. Core colours 0,14 mm²: bn/gn, ye/vt, gy/pk, rd/bk. Core colours 0,5 mm²: wh, bu, whgn, bngn. Cores and pairs twisted together.

LiF9YC11Y [4 × 2 × 0,25/AWG 24 + 2 × 1,0/AWG 18]
Construction as described under No. 1. Core colours 0,25mm²: rd/bk, bn/gn, gy/pk, bu/vt. Cores and pairs twisted together.

LiF9YC11Y [4 × 2 × 0,38/AWG 22 + 4 × 0,5/AWG 20]
Superfine strands of bare copper wires. Polypropylen core insulation. Core colours 0,5 mm²: bk, bu, ye, rd. Core colours 0,38 mm²: ye/gn, og/rd, bn/bk, bu/vt, cores and pairs twisted together, fleece, tinned drain wire, tinned copper shield, PUR outer sheath.

LiF9YC11Y [9 × 0,5/AWG 20]
Construction as described under No. 1. Core colours: bu, wh, rd, pk, gn, ye, bn, bk, gy.

ConCab kabel connects the world

Part-No.	No. of cores + cross-section/AWG		System	Copper weight	Outer diameter approx.	Weight
				kg/km	mm	kg/km
281 1001 205 10	LiF9YC11Y	[10 × 0,14/AWG 26 + 2 × 0,5/AWG 20]	Heidenhain	46,1	8,0	70
281 1001 405 10	LiF9YC11Y	[10 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Heidenhain	56,0	8,0	85
281 1501 405 10	LiF9YC11Y	[15 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Bosch	60,0	8,8	127
283 3201 205 10	LiF9YD12YC11Y	[3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]	Heidenhain	74,0	9,4	104
232 3201 205 10	LiF9YD12YC11Y	[3 × (2 × 0,14/AWG 26) + 2 × (0,5/AWG 20)]	Sinumerik	82,0	9,7	105
282 3201 210 10	LiF9YD12YC11Y	[3 × (2 × 0,14/AWG 26) + 2 × 1,0/AWG 18]	Heidenhain	60,0	8,8	108
281 4201 405 10	LiF9YC11Y	[4 × 2 × 0,14/AWG 26 + 4 × 0,5/AWG 20]	Heidenhain	55,3	8,2	109
281 4202 205 10	LiF9YC11Y	[4 × 2 × 0,25/AWG 24 + 2 × 0,5/AWG 20]	Indramat	63,0	8,8	124
281 4202 210 10	LiF9YC11Y	[4 × 2 × 0,25/AWG 24 + 2 × 1,0/AWG 18]	Indramat	72,0	8,8	134
281 4203 405 10	LiF9YC11Y	[4 × 2 × 0,38/AWG 21 + 4 × 0,5/AWG 20]	Sinumerik	81,5	8,6	203
281 905 10	LiF9YC11Y	[9 × 0,5/AWG 20]	Indramat	73,0	8,8	125
282 3201 401 205 10	LiF9YD12YC11Y	[3 × (2 × 0,14) + 4 × 0,14 + 2 × 0,5] [3 × (2 × AWG 26) + 4 × AWG 26 + 2 × AWG 20]	Sinumerik	71,5	9,0	126
242 3201 401 10	LiF9YD12YC11Y	[3 × (2 × 0,14) + 4 × 0,14 + 4 × 0,23 + 2 × 0,5] [3 × (2 × AWG 26) + 4 × AWG 26 + 4 × AWG 24 + 2 × AWG 20]	Sinumerik	84,1	10,3	148
281 2201 8 10	LiF9YC11Y	[2 × 2 × 0,18/AWG 25]	Sinumerik	23,5	5,6	44
281 4201 8 10	LiF9YC11Y	[4 × 2 × 0,18/AWG 25]	Sinumerik	32,4	6,5	56
281 8201 8 10	LiF9YC11Y	[8 × 2 × 0,18/AWG 25]	Sinumerik	71,3	8,6	125
281 1202 3 10	LiF9YC11Y	[12 × 0,23/AWG 24]	Sinumerik	59,0	7,1	132
281 1220 25 10	LiF9YD12YC11Y	[12 × (2 × 0,25/AWG 24)]	Sinumerik	115,0	12,5	206
282 4201 4 00	LiF9YD12YC11Y	[(4 × 2 × 0,14/AWG 26)] black	Heidenhain	32,3	6,1	91
281 4201 402 00	LiF9YC11Y	[4 × 2 × 0,14/AWG 26 + 4 × 0,25/AWG 24] black	Heidenhain	38,5	6,1	95

Technical data

Rated voltage:
VDE/IEC up to 0,38 mm²: 300 V
from 0,50 mm²: 500 V
UL/CSA: 300 V

Test voltage:
2000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Operating capacity at 800 Hz:
core/core approx. 70 nF/km
core/shield approx. 110 nF/km

Insulation resistance:
min. 100 MOhm u km

Temperature range:
flexible application: - 30°C to + 80°C

Bending radius:
10 × cable diameter

Outer sheath colour:
DESINA®-green (RAL 6018)

Approvals:
acc. to VDE 0245, 0281, 0812
UL: Style 20233, 20234
CSA: AWM



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servo PVC-586

Motor-supply cable 0.6/1 kV

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - SERVO 586 4 G 2,5 E 172073 cUL AWM STYLE 20886 1000V DESINA

Technical data

Rated voltage:

VDE/IEC: 600/1000 V

UL/CSA: 1000 V

Test voltage:

4000 V

Conductor stranding:

Fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation : -30°C to +80°C

flexible application : -5°C to +70°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0281

cUL: Style 20886

CC-Servo PVC-586 is used to connect servo- and DNC-motors. The cable is *DESINA*[®] conforming and can be used for occasional flexible applications.

Construction

Fine strands of bare copper wires, PVC core insulation, cores are black with consecutive white numbering and a green/yellow protective conductor in the outer layer, cores twisted in layers, PVC-based outer sheath, UV-resistant, resistant to oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Colour grey (RAL 7001) or *DESINA*[®]-black (RAL 9005).

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG UL®+CS®	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
586 0015 004	4 G 1,5		grey	58,0	9,2	126
586 0025 004	4 G 2,5		grey	96,0	11,8	217
586 0025 007	7 G 2,5		grey	168,0	15,0	315
586 0040 004	4 G 4		grey	154,0	13,0	329
586 0060 004	4 G 6		grey	230,0	16,0	445
586 0100 004	4 G 10		grey	384,0	20,0	660
586 0160 004	4 G 16		grey	614,0	24,0	1057
586 0250 004	4 G 25		grey	960,0	31,0	1805
586 0015 040	4 G 1,5		black	58,0	10,0	126
586 0015 050	5 G 1,5		black	72,0	10,9	160
586 0015 070	7 G 1,5		black	101,0	13,3	220
586 0025 040	4 G 2,5		black	96,0	11,8	217
586 0025 050	5 G 2,5		black	120,0	12,3	251
586 0025 070	7 G 2,5		black	168,0	15,0	315
586 0040 040	4 G 4		black	154,0	13,0	329
586 0040 050	5 G 4		black	192,0	15,4	415
586 0040 070	7 G 4		black	269,0	16,6	535
586 0060 040	4 G 6		black	230,0	16,0	445
586 0060 050	5 G 6		black	288,0	17,2	640
586 0060 070	7 G 6		black	403,0	19,3	850
586 0100 040	4 G 10		black	384,0	20,0	660
586 0100 050	5 G 10		black	480,0	21,1	920
586 0100 070	7 G 10		black	672,0	23,0	1270
586 0160 040	4 G 16		black	614,0	24,0	1057
586 0160 050	5 G 16		black	768,0	24,8	1540
586 0160 070	7 G 16		black	1075,0	29,9	1850
586 0250 040	4 G 25		black	960,0	31,0	1805
586 0250 050	5 G 25		black	1200,0	34,0	2150
586 0250 070	7 G 25		black	1680,0	49,8	2910
586 0350 040	4 G 35		black	1344,0	32,9	2385
586 0350 050	5 G 35		black	1680,0	36,8	2885
586 0500 040	4 G 50		black	1920,0	39,8	3410
586 160 408	4 G 1,5	4 × AWG 16	black	58,0	9,9	139
586 140 408	4 G 2,5	4 × AWG 14	black	96,0	11,1	203
586 120 408	4 G 4	4 × AWG 12	black	154,0	13,8	310
586 100 408	4 G 6	4 × AWG 10	black	230,0	15,6	430
586 080 408	4 G 10	4 × AWG 8	black	384,0	18,4	790
586 060 408	4 G 16	4 × AWG 6	black	614,0	21,7	1100
586 040 408	4 G 25	4 × AWG 4	black	960,0	26,9	1600
586 020 408	4 G 35	4 × AWG 2	black	1344,0	30,0	2096
586 010 408	4 G 50	4 × AWG 1	black	1920,0	34,5	2960



Special needs, different dimensions or different outer sheath colours upon request.

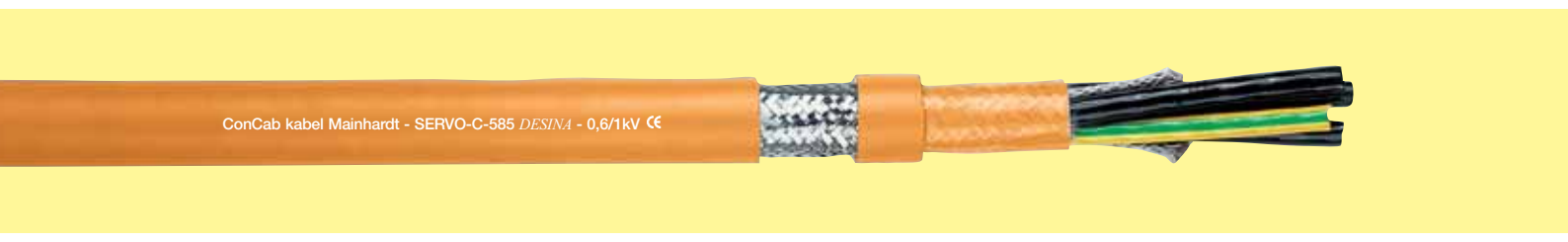
ConCab kabel connects the world



CC-Servo PVC-C-585

Motor supply cable 0.6/1 kV, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Servo PVC-585 shielded UL/CSA and *DESINA*[®] conforming is used for frequency converters and to connect servo and DNC-motors. The overall copper shield enables the cable to be used for applications in which high protection against electromagnetic disturbances are required. The cable can be used for occasional flexible applications.

Construction

Fine strands of bare copper wire, PVC core insulation, cores are black with consecutive white numbering and a green/yellow protective conductor, cores twisted together in layers. PVC inner sheath, tinned copper shield. PVC-based outer sheath, resistant to oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001) or *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

VDE/IEC: 600/1000 V

UL/CSA: 1000 V

Test voltage:

4000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C

flexible application: -5°C to +70°C

Bending radius:

10 × cable diameter

Approvals:

acc. to VDE 0281

cUL: Style 20886

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Part-No.	No. of cores + cross- section	No. of cores + AWG UL [®] +CS [®]	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
585 0015 004	4 G 1,5		grey	127,0	13,1	244
585 0025 004	4 G 2,5		grey	177,0	14,8	357
585 0040 004	4 G 4		grey	254,0	17,4	529
585 0060 004	4 G 6		grey	341,0	19,8	617
585 0100 004	4 G 10		grey	577,0	25,1	1042
585 0160 004	4 G 16		grey	838,0	27,3	1464
585 0250 004	4 G 25		grey	1214,0	34,0	1918
585 0350 004	4 G 35		grey	1618,0	37,2	2510
585 0015 048	4 G 1,5		orange	127,0	13,1	244
585 0025 048	4 G 2,5		orange	177,0	14,8	357
585 0040 048	4 G 4		orange	254,0	17,4	529
585 0060 048	4 G 6		orange	341,0	19,8	617
585 0100 048	4 G 10		orange	577,0	25,1	1042
585 0160 048	4 G 16		orange	838,0	27,3	1464
585 0250 048	4 G 25		orange	1214,0	34,0	1918
585 0350 048	4 G 35		orange	1618,0	37,2	2510
585 0500 048	4 G 50		orange	2397,0	43,4	3785
585 160 408	4 G 1,5	4 × AWG 16	orange	127,0	13,1	244
585 140 408	4 G 2,5	4 × AWG 14	orange	177,0	14,8	357
585 120 408	4 G 4	4 × AWG 12	orange	254,0	17,4	529
585 100 408	4 G 6	4 × AWG 10	orange	341,0	19,8	617
585 080 408	4 G 10	4 × AWG 8	orange	577,0	25,1	1042
585 060 408	4 G 16	4 × AWG 6	orange	838,0	27,3	1464
585 040 408	4 G 25	4 × AWG 4	orange	1214,0	34,0	1918
585 020 408	4 G 35	4 × AWG 2	orange	1618,0	37,2	2510
585 010 408	4 G 50	4 × AWG 1	orange	2397,0	43,4	3785



Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world



CC-Servo 2Y-(St)-CY-587 CC-Servo 2Y-(St)-CH-1587

Low capacitance cable for frequency converters 0.6/1kV, double shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Servo 2Y-(St)-CY-587 and CC-Servo 2Y-(St)-CH-1587 double shielded are designed for application with high EMC requirements to connect motors and frequency converters and can be used for medium strain application in dry and damp areas but not outdoors. The low capacitance PE core insulation allows a disturbance free application in frequency converters, servo and DNC-motors especially where longer cable lengths are needed. For optimized EMC-Design, cables with three core protective conductor should be used.

Construction

Fine strands of bare copper wires. PE (polyethylene) core insulation, core colours acc. to VDE 0293 308 with one (or three) green/yellow protective conductor(s). Cores twisted in layers, aluminium foil, tinned copper shield. PVC-based or halogen-free outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colours please see table next page.

Technical data

Rated voltage:
600/1000 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Coupling resistance:
max. 250 Ohm/km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
15 × cable diameter

Approvals:
acc. to VDE 0281


ConCab kabel connects the world





Part-No.	No. of cores + cross-section	Outer sheath colour	Operating capacity approx. nF/km	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
587 0015 004	Li2Y(St)CY 4 G 1,5	transparent	105	87,0	10,8	140
587 0025 004	Li2Y(St)CY 4 G 2,5	transparent	125	133,0	12,4	298
587 0040 004	Li2Y(St)CY 4 G 4	transparent	150	213,0	14,6	486
587 0060 004	Li2Y(St)CY 4 G 6	transparent	165	298,0	17,5	625
587 0100 004	Li2Y(St)CY 4 G 10	transparent	195	492,0	19,8	863
587 0160 004	Li2Y(St)CY 4 G 16	transparent	240	726,0	23,5	1285
587 0250 004	Li2Y(St)CY 4 G 25	transparent	260	1118,0	27,4	1871
587 0350 004	Li2Y(St)CY 4 G 35	transparent	280	1662,0	31,9	2616
587 0500 004	Li2Y(St)CY 4 G 50	transparent	320	2345,0	37,4	2935
587 0700 004	Li2Y(St)CY 4 G 70	transparent	360	3196,0	42,0	3941
587 0950 004	Li2Y(St)CY 4 G 95	transparent	410	4316,0	47,4	5286
CC-Servo 2Y-(St)-CY-587 for optimized EMC-Design						
587 30015 002 08	Li2Y(St)CY-JB 3 × 1,5 + 3 × 0,25	transparent-orange		86,0	10,2	140
587 30025 005 08	Li2Y(St)CY-JB 3 × 2,5 + 3 × 0,5	transparent-orange		144,0	11,9	220
587 30040 007 08	Li2Y(St)CY-JB 3 × 4 + 3 × 0,75	transparent-orange		224,0	14,1	323
587 30060 010 08	Li2Y(St)CY-JB 3 × 6 + 3 × 1	transparent-orange		298,0	15,8	420
587 30100 015 08	Li2Y(St)CY-JB 3 × 10 + 3 × 1,5	transparent-orange		511,0	19,0	615
587 30160 025 08	Li2Y(St)CY-JB 3 × 16 + 3 × 2,5	transparent-orange	215	751,0	22,5	898
587 30250 040 08	Li2Y(St)CY-JB 3 × 25 + 3 × 4	transparent-orange	235	1204,0	26,0	1325
587 30350 060 08	Li2Y(St)CY-JB 3 × 35 + 3 × 6	transparent-orange	250	1535,0	29,5	1718
587 30500 100 08	Li2Y(St)CY-JB 3 × 50 + 3 × 10	transparent-orange	270	2156,0	35,0	2402
587 30700 100 08	Li2Y(St)CY-JB 3 × 70 + 3 × 10	transparent-orange	290	2980,0	38,5	3056
587 30950 160 08	Li2Y(St)CY-JB 3 × 95 + 3 × 16	transparent-orange	305	3530,0	44,0	4165
587 31200 160 08	Li2Y(St)CY-JB 3 × 120 + 3 × 16	transparent-orange	315	4276,0	48,0	5074
587 31500 250 08	Li2Y(St)CY-JB 3 × 150 + 3 × 25	transparent-orange	325	5488,0	53,0	6128
587 31850 350 08	Li2Y(St)CY-JB 3 × 185 + 3 × 35	transparent-orange	335	6835,0	57,5	7475
587 32400 425 08	Li2Y(St)CY-JB 3 × 240 + 3 × 42,5	transparent-orange	345	8851,0	66,0	9491
587 33000 500 08	Li2Y(St)CY-JB 3 × 300 + 3 × 50	transparent-orange	360	10881,0	73,0	11521
CC-Servo 2Y-(St)-CH-1587 for optimized EMC-Design halogen-free						
1 587 30015 002 05	Li2Y(St)CH-JB 3 × 1,5 + 3 × 0,25	grey		86,0	10,2	140
1 587 30025 005 05	Li2Y(St)CH-JB 3 × 2,5 + 3 × 0,5	grey		144,0	11,9	220
1 587 30040 007 05	Li2Y(St)CH-JB 3 × 4 + 3 × 0,75	grey		224,0	14,1	323
1 587 30060 010 05	Li2Y(St)CH-JB 3 × 6 + 3 × 1	grey		298,0	15,8	420
1 587 30100 015 05	Li2Y(St)CH-JB 3 × 10 + 3 × 1,5	grey		511,0	19,0	615
1 587 30160 025 05	Li2Y(St)CH-JB 3 × 16 + 3 × 2,5	grey	215	751,0	22,5	898
1 587 30250 040 05	Li2Y(St)CH-JB 3 × 25 + 3 × 4	grey	235	1204,0	26,0	1325
1 587 30350 060 05	Li2Y(St)CH-JB 3 × 35 + 3 × 6	grey	250	1535,0	29,5	1718
1 587 30500 100 05	Li2Y(St)CH-JB 3 × 50 + 3 × 10	grey	270	2156,0	35,0	2402
1 587 30700 100 05	Li2Y(St)CH-JB 3 × 70 + 3 × 10	grey	290	2980,0	38,5	3056
1 587 30950 160 05	Li2Y(St)CH-JB 3 × 95 + 3 × 16	grey	305	3530,0	44,0	4165
1 587 31200 160 05	Li2Y(St)CH-JB 3 × 120 + 3 × 16	grey	315	4276,0	48,0	5074
1 587 31500 250 05	Li2Y(St)CH-JB 3 × 150 + 3 × 25	grey	325	5488,0	53,0	6128
1 587 31850 350 05	Li2Y(St)CH-JB 3 × 185 + 3 × 35	grey	335	6835,0	57,5	7475
1 587 32400 425 05	Li2Y(St)CH-JB 3 × 240 + 3 × 42,5	grey	345	8851,0	66,0	9491
1 587 33000 500 05	Li2Y(St)CH-JB 3 × 300 + 3 × 50	grey	360	10881,0	73,0	11521

Special needs, different dimensions or different outer sheath colours upon request.

CC-Tray Cable-TC-590

Flexible oil resistant control cable 600 V
for cable trays and open wiring at machines
Conforms to EU low-voltage guideline 73/23/EEC 

ConCab kabel Mainhardt 590 E 172073  TC OPEN WIRING OR MTW 600V 90°C 



Technical data

Rated voltage:

VDE/IEC: 300/500 V

UL: 600 V

Test voltage:

4000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -40°C to +90°C

flexible application: -5°C to +90°C

Bending radius:

fixed installation: 5 × cable diameter

flexible application: 15 × cable diameter

Approvals:

acc. to VDE 0281

UL: Type TC for open wiring, Style 2587

UL: AWM

flame resistant: VW-1

The oil resistant CC-Tray Cable-TC-590 is used for open wiring on cable trays and free laying on machines and industry plants acc. to article 340-4 NEC.

Construction

Fine strands of bare copper wires, special PVC-based core insulation with transparent polyamide (Nylon®) skin, cores are black with consecutive white numbering and green/yellow protective conductor, cores twisted together, foil. PVC outer sheath, UV-resistant, resistant against oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1, IEC 60332-1 and UL VW-1). Colour black.

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Part No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
590 1803	3 G 1,0	3 × AWG 18	29,0	7,5	87
590 1804	4 G 1,0	4 × AWG 18	38,4	8,1	101
590 1805	5 G 1,0	5 × AWG 18	48,0	8,9	117
590 1807	7 G 1,0	7 × AWG 18	67,0	9,5	151
590 1809	9 G 1,0	9 × AWG 18	87,0	11,1	170
590 1812	12 G 1,0	12 × AWG 18	115,0	12,1	254
590 1818	18 G 1,0	18 × AWG 18	173,0	14,8	363
590 1825	25 G 1,0	25 × AWG 18	240,0	17,0	481
590 1603	3 G 1,5	3 × AWG 16	43,0	8,1	105
590 1604	4 G 1,5	4 × AWG 16	58,0	8,7	126
590 1605	5 G 1,5	5 × AWG 16	72,0	9,5	145
590 1607	7 G 1,5	7 × AWG 16	101,0	10,2	191
590 1609	9 G 1,5	9 × AWG 16	130,0	11,8	254
590 1612	12 G 1,5	12 × AWG 16	173,0	13,3	326
590 1616	16 G 1,5	16 × AWG 16	231,0	15,4	399
590 1618	18 G 1,5	18 × AWG 16	259,0	16,2	432
590 1625	25 G 1,5	25 × AWG 16	360,0	18,7	594
590 1641	41 G 1,5	41 × AWG 16	591,0	24,5	933
590 1650	50 G 1,5	50 × AWG 16	720,0	25,7	1135
590 1661	61 G 1,5	61 × AWG 16	879,0	27,5	1151
590 1403	3 G 2,5	3 × AWG 14	72,0	8,8	131
590 1404	4 G 2,5	4 × AWG 14	96,0	9,6	161
590 1405	5 G 2,5	5 × AWG 14	120,0	10,4	193
590 1407	7 G 2,5	7 × AWG 14	168,0	11,3	249
590 1409	9 G 2,5	9 × AWG 14	216,0	13,1	333
590 1412	12 G 2,5	12 × AWG 14	288,0	15,5	456
590 1418	18 G 2,5	18 × AWG 14	432,0	17,8	651
590 1425	25 G 2,5	25 × AWG 14	600,0	20,5	869
590 1204	4 G 4	4 × AWG 12	154,0	11,4	228
590 1205	5 G 4	5 × AWG 12	192,0	12,5	281
590 1207	7 G 4	7 × AWG 12	269,0	14,5	386
590 1004	4 G 6	4 × AWG 10	230,0	15,1	397
590 1005	5 G 6	5 × AWG 10	288,0	16,5	469
590 1007	7 G 6	7 × AWG 10	405,0	17,9	659
590 0804	4 G 10	4 × AWG 8	384,0	19,5	617
590 0805	5 G 10	5 × AWG 8	480,0	22,6	773
590 0604	4 G 16	4 × AWG 6	614,0	22,8	867
590 0605	5 G 16	5 × AWG 6	768,0	24,9	1083
590 0404	4 G 25	4 × AWG 4	960,0	27,7	1425
590 0204	4 G 35	4 × AWG 2	1344,0	32,0	2069



Special needs, different dimensions or different outer sheath colours upon request.

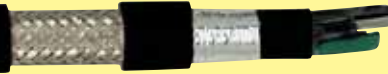
ConCab kabel connects the world



CC-Tray Cable-TC-C-591

Flexible oil resistant control cable 600 V, shielded
for cable trays and open wiring at machines
Conforms to EU low-voltage guideline 73/23/EEC 

ConCab kabel Mainhardt 591 E172073  TC OPEN OR MTW 600V 90°C 



The oil resistant CC-Tray Cable-TC-C-591 shielded is used for open wiring on cable trays and free laying on machines and industry plants acc. to article 340-4 NEC. The overall copper shield ensures exact data transmission and protects the cable against electromagnetic disturbances and influences.

Construction

Fine strands of bare copper wires, special PVC-based core insulation with transparent polyamide (Nylon) skin, cores are black with consecutive white numbering and green/yellow protective conductor, cores twisted together. Aluminium foil, tinned copper shield, foil. PVC outer sheath, UV-resistant, resistant against oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1, IEC 60332-1 and UL VW-1). Colour black.

Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL: 600 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +90°C
flexible installation: -5°C to +90°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281
UL: Type TC for open wiring
UL: AWM Style 2587
flame resistant: VW-1



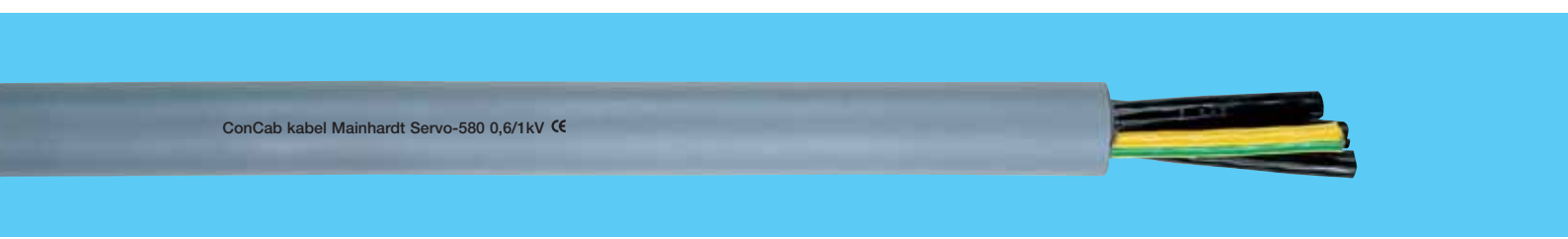
Part No.	No of cores + cross- section	No of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
591 1803	3 G 1,0	3 × AWG 18	62,0	8,2	121
591 1804	4 G 1,0	4 × AWG 18	74,0	8,8	136
591 1805	5 G 1,0	5 × AWG 18	88,0	9,4	147
591 1807	7 G 1,0	7 × AWG 18	112,0	10,1	195
591 1812	12 G 1,0	12 × AWG 18	185,0	12,9	328
591 1818	18 G 1,0	18 × AWG 18	268,0	15,6	436
591 1825	25 G 1,0	25 × AWG 18	354,0	17,9	576
591 1603	3 G 1,5	3 × AWG 16	82,0	8,8	145
591 1604	4 G 1,5	4 × AWG 16	100,0	9,5	176
591 1605	5 G 1,5	5 × AWG 16	119,0	10,2	187
591 1607	7 G 1,5	7 × AWG 16	154,0	11,1	243
591 1612	12 G 1,5	12 × AWG 16	268,0	14,1	427
591 1618	18 G 1,5	18 × AWG 16	373,0	17,0	518
591 1625	25 G 1,5	25 × AWG 16	530,0	19,5	710
591 1403	3 G 2,5	3 × AWG 14	118,0	9,5	179
591 1404	4 G 2,5	4 × AWG 14	147,0	10,4	225
591 1405	5 G 2,5	5 × AWG 14	176,0	11,2	270
591 1407	7 G 2,5	7 × AWG 14	253,0	12,1	325
591 1412	12 G 2,5	12 × AWG 14	389,1	16,3	597
591 1418	18 G 2,5	18 × AWG 14	512,7	18,6	786
591 1425	25 G 2,5	25 × AWG 14	685,4	21,4	1051
591 1204	4 G 4	4 × AWG 12	206,0	12,2	317
591 1205	5 G 4	5 × AWG 12	253,8	13,3	391
591 1207	7 G 4	7 × AWG 12	326,4	15,3	497
591 1004	4 G 6	4 × AWG 10	361,0	15,9	554
591 1005	5 G 6	5 × AWG 10	400,9	17,3	611
591 1007	7 G 6	7 × AWG 10	559,8	18,8	857
591 0804	4 G 10	4 × AWG 8	560,5	20,3	860
591 0604	4 G 16	4 × AWG 6	790,0	23,6	1204
591 0404	4 G 25	4 × AWG 4	1296,2	28,8	1978
591 0204	4 G 35	4 × AWG 2	1898,6	33,3	2898

Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world

CC-Servoflex PUR-580

Superflexible halogen-free motor-supply cable 0.6/1 kV
Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Servoflex PUR-580 is designed to connect servo and DNC-motors. It is used as a supply cable for power supply chains, automatic handling equipment and robots for in- and outdoors. It is used in areas where aggressive and mineral oils or high mechanical stress occur. A special cable structure and high quality materials ensure a long service life. The PUR outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering and green/yellow protective conductor, cores twisted in very short lay lengths, fleece. PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001) or petrol.

Technical data

Rated voltage:
600/1000 V

Test voltage:
4000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
580 0015 004	4 G 1,5	grey	58,0	8,5	121
580 0025 004	4 G 2,5	grey	96,0	10,2	209
580 0040 004	4 G 4	grey	154,0	11,6	306
580 0060 004	4 G 6	grey	230,0	13,2	451
580 0100 004	4 G 10	grey	384,0	16,5	744
580 0160 004	4 G 16	grey	614,0	19,2	1210
580 0250 004	4 G 25	grey	960,0	24,1	1505
580 0350 004	4 G 35	grey	1344,0	27,5	2086
580 0500 004	4 G 50	grey	1920,0	36,0	2923
580 0015 041	4 G 1,5	petrol	58,0	8,5	121
580 0025 041	4 G 2,5	petrol	96,0	10,2	209
580 0040 041	4 G 4	petrol	154,0	11,6	306
580 0060 041	4 G 6	petrol	230,0	13,2	451
580 0100 041	4 G 10	petrol	384,0	16,5	744
580 0160 041	4 G 16	petrol	614,0	19,2	1210
580 0250 041	4 G 25	petrol	960,0	24,1	1505
580 0350 041	4 G 35	petrol	1344,0	27,5	2086
580 0500 041	4 G 50	petrol	1920,0	36,0	2923

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servoflex PUR-580

Superflexible halogen-free motor-supply cable 0.6/1 kV

Conforms to EU low-voltage guideline 73/23/EEC CE

 and 

ConCab kabel Mainhardt -580- 4 G 4 E 172073 cUL AWM STYLE 20234 1000V 80°C DESINA CE



CC-Servoflex PUR-580 UL/CSA and *DESINA*[®] conforming is designed to connect servo and DNC-motors. It is used as a supply cable in power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and in areas where aggressive and mineral oils or high mechanical stress occur. A special cable structure and high quality materials ensure a long service life. The polyurethane outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering and green/yellow protective conductor. Cores twisted together in very short lay lengths, fleece. PUR-based outer sheath is UV-resistant, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, and resistant to hydrolysis and microbes. Colour *DESINA*[®]-black (RAL 9005).

Technical data

Rated voltage:

VDE/IEC: 600/1000 V

UL/CSA: 1000 V

Test voltage:

4000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

5 × cable diameter

Approvals:

acc. to VDE 0245, 0281

UL: Style 10264/20234

CSA: AWM I A/B, II A/B FT1

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
580 160 400	4 G 1,5	4 × AWG 16	58,0	8,5	121
580 140 400	4 G 2,5	4 × AWG 14	96,0	10,2	209
580 120 400	4 G 4	4 × AWG 12	154,0	11,6	306
580 100 400	4 G 6	4 × AWG 10	230,0	13,2	451
580 080 400	4 G 10	4 × AWG 8	384,0	16,5	744
580 060 400	4 G 16	4 × AWG 6	614,0	19,2	1210
580 040 400	4 G 25	4 × AWG 4	960,0	24,1	1505
580 020 400	4 G 35	4 × AWG 2	1344,0	27,5	2086
580 010 400	4 G 50	4 × AWG 1	1920,0	35,5	2923



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

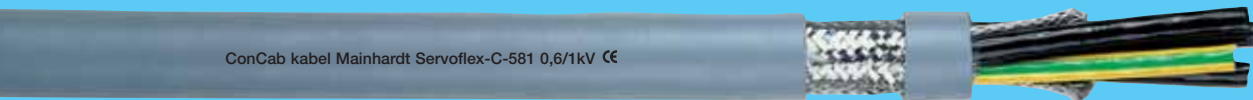
ConCab kabel connects the world

CC-Servoflex PUR-C-581

Superflexible halogen-free motor-supply cable 0.6/1 kV, shielded



Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Servoflex PUR-C-581 shielded is designed to connect electronically controlled servo and DNC-motors and frequency converters. It is used in power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and where aggressive and mineral oils occur. A special cable structure and high quality materials ensure a long service life of CC-Schleppflex PUR-C-581. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance-free operation of servo and DNC motors. The polyurethane outer sheath is highly cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wire, polyester (TPE) core insulation, cores are black with consecutive white numbering and green/yellow protective conductor, cores twisted in layers with very short lay lengths, special bandage, tinned copper shield, fleece. PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001), petrol or *DESINA*[®]- orange (RAL 2003).

Technical data

Rated voltage:
600/1000 V

Test voltage:
4000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 100 MOhm × km

Temperature range:
-30°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
581 0015 004	4 G 1,5	grey	104,0	9,0	173
581 0025 004	4 G 2,5	grey	164,0	10,7	239
581 0040 004	4 G 4	grey	245,0	12,2	321
581 0060 004	4 G 6	grey	337,0	14,0	457
581 0100 004	4 G 10	grey	528,0	17,3	695
581 0160 004	4 G 16	grey	790,0	20,2	1126
581 0250 004	4 G 25	grey	1249,0	24,9	1648
581 0350 004	4 G 35	grey	1653,0	28,7	2206
581 0500 004	4 G 50	grey	2286,0	36,2	3146
581 0015 041	4 G 1,5	petrol	104,0	9,0	173
581 0025 041	4 G 2,5	petrol	164,0	10,7	239
581 0040 041	4 G 4	petrol	245,0	12,2	321
581 0060 041	4 G 6	petrol	337,0	14,0	457
581 0100 041	4 G 10	petrol	528,0	17,3	695
581 0160 041	4 G 16	petrol	790,0	20,2	1126
581 0250 041	4 G 25	petrol	1249,0	24,9	1648
581 0350 041	4 G 35	petrol	1653,0	28,7	2206
581 0500 041	4 G 50	petrol	2286,0	36,2	3146
581 0015 048	4 G 1,5	orange	104,0	9,0	173
581 0025 048	4 G 2,5	orange	164,0	10,7	239
581 0040 048	4 G 4	orange	245,0	12,2	321
581 0060 048	4 G 6	orange	337,0	14,0	457
581 0100 048	4 G 10	orange	528,0	17,3	695
581 0160 048	4 G 16	orange	790,0	20,2	1126
581 0250 048	4 G 25	orange	1249,0	24,9	1648
581 0350 048	4 G 35	orange	1653,0	28,7	2206
581 0500 048	4 G 50	orange	2286,0	36,2	3146



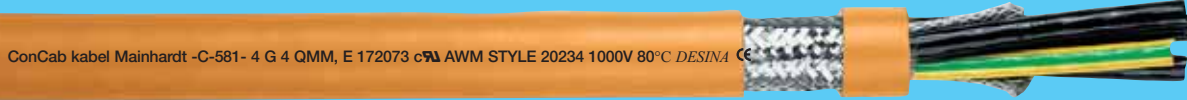
Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servoflex PUR-C-581

Superflexible halogen-free motor-supply cable 0.6/1 kV, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt -C-581- 4 G 4 QMM, E 172073 cUL AWM STYLE 20234 1000V 80°C DESINA CE

CC-Servoflex PUR-C-581 shielded, UL/CSA and *DESINA*[®] conforming is designed to connect electronically controlled servo and DNC-motors and frequency converters. It is used in power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and where aggressive and mineral oils occur. A special cable structure and high quality materials ensure a long service life of CC-Schleppflex PUR-C-581. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance free operation of servo and DNC-motors. The polyurethane outer sheath is highly cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering and green/yellow protective conductor, cores twisted in very short lay lengths, bandage, tinned copper shield, fleece. PUR-based outer sheath is UV-resistant, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive and resistant to hydrolysis and microbes. Colour *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

VDE/IEC: 600/1000 V

UL/CSA: 1000 V

Test voltage:

4000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281

UL: Style 10264, 20234

CSA: AMW IA/B, IIA/B FT1

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
581 160 408	4 G 1,5	4 × AWG 16	104,0	11,1	173
581 140 408	4 G 2,5	4 × AWG 14	164,0	11,6	239
581 120 408	4 G 4	4 × AWG 12	245,0	13,1	321
581 100 408	4 G 6	4 × AWG 10	337,0	15,4	457
581 080 408	4 G 10	4 × AWG 8	528,0	19,2	695
581 060 408	4 G 16	4 × AWG 6	790,0	24,5	1126
581 040 408	4 G 25	4 × AWG 4	1249,0	28,7	1648
581 020 408	4 G 35	4 × AWG 2	1653,0	34,0	2206
581 010 408	4 G 50	4 × AWG 1	2286,0	40,3	3146



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

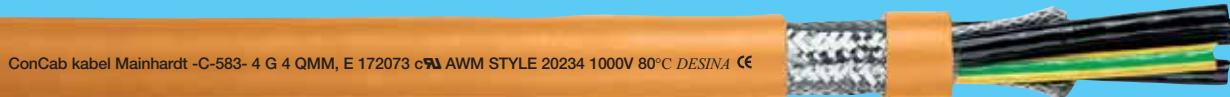
ConCab kabel connects the world

CC-Servoflex PUR-C-583

Low capacitance superflexible halogen-free cable 0.6/1kV, shielded

Conforms to EU low-voltage guideline 73/23/EWG CE

 and 



ConCab kabel Mainhardt -C-583- 4 G 4 QMM, E 172073 cUL AWM STYLE 20234 1000V 80°C DESINA CE

CC-Servoflex PUR-C-583 shielded, UL/CSA and *DESINA*[®] conforming with low capacitance is designed to connect electronically controlled servo and DNC-motors and frequency converters. It is used in power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and where aggressive and mineral oils occur. A special cable structure and high quality materials ensure a long service life of CC-Schleppflex PUR-C-583. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance free operation of servo and DNC-motors. The polyurethane outer sheath is highly cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wires, polypropylen (PP) core insulation, cores are black with consecutive white numbering and green/yellow protective conductor, cores twisted in very short lay lengths, bandage, tinned copper shield, fleece. PUR-based outer sheath is UV-resistant, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive and resistant to hydrolysis and microbes. Colour *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

VDE/IEC: 600/1000 V

UL/CSA: 1000 V

Test voltage:

4000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Operation capacity at 800 Hz:

core/core approx. 70 nF/km
core/shield approx. 110 nF/km

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281

UL: Style 20234

CSA: AMW IA/B, IIA/B FT1

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
583 160 408	4 G 1,5	4 × AWG 16	86,0	11,1	161
583 140 408	4 G 2,5	4 × AWG 14	129,0	11,6	232
583 120 408	4 G 4	4 × AWG 12	196,0	13,1	341
583 100 408	4 G 6	4 × AWG 10	270,0	15,4	457
583 080 408	4 G 10	4 × AWG 8	476,0	19,2	695
583 060 408	4 G 16	4 × AWG 6	708,0	24,5	1126
583 040 408	4 G 25	4 × AWG 4	1150,0	28,7	1648
583 020 408	4 G 35	4 × AWG 2	1508,0	34,0	2206
583 010 408	4 G 50	4 × AWG 1	2090,0	40,3	3146



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servo PVC-573

Motor-supply cable 0.6/1 kV

Conforms to EU low-voltage guideline 73/23/EEC CE



CC-Servo PVC-573 is used for electronically controlled servo-motors as a power and feedback cable. A special cable structure and high quality materials ensure a long service life. The CC-Servo PVC-573 combines power cores and shielded control cores and can be used for occasional flexible applications.

Construction

Power cores 0,75 mm² - 35 mm²:

Fine strands of bare copper wires, PVC core insulation, cores are black with consecutive white numbering and green/yellow protective conductor.

Control cores 0,34 mm² - 1,5 mm²:

Fine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering, twisted in pairs, pairs with aluminium foil, tinned drain wire, tinned copper shield, special foil wrapping, power and paired control cores twisted together in short lay lengths.

PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7001).

Technical data

Rated voltage:

power cores: 600/1000 V
control cores: 300/500 V

Test voltage:

power cores: core/core 4000 V
control cores: core/core 1000 V
core/shield 750 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

15 × cable diameter

Approvals:

acc. to VDE 0281

ConCab kabel connects the world

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
573 407 03 50	4 G 0,75 + 2 × (2 × 0,34)(St)C-Y	74,5	10,6	126
573 415 07 50	4 G 1,5 + 2 × (2 × 0,75)(St)C-Y	143,1	12,7	194
573 425 07 50	4 G 2,5 + 2 × (2 × 0,75)(St)C-Y	152,0	14,9	318
573 440 07 50	4 G 4 + (2 × 0,75) StC + (2 × 1,0)(St)C-Y	254,0	16,6	414
573 460 07 50	4 G 6 + (2 × 0,75) StC + (2 × 1,0)(St)C-Y	321,4	18,7	551
573 410 07 50	4 G 10 + (2 × 0,75) StC + (2 × 1,0)(St)C-Y	468,6	22,4	822
573 416 10 50	4 G 16 + 2 × (2 × 1,0)(St)C-Y	692,3	25,9	1127
573 425 15 50	4 G 25 + 2 × (2 × 1,5)(St)C-Y	1048,8	29,5	1632
573 435 15 50	4 G 35 + 2 × (2 × 1,5)(St)C-Y	1509,0	33,2	2058



Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world



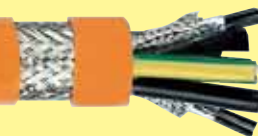
CC-Servo PVC-C-577

Motor-supply cable 0.6/1 kV, shielded

Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 577 4 G 2,5 E172073 cUL STYLE 20886 1000V 90°C CE



CC-Servo PVC-C-577 shielded is used for electronically controlled servo-motors as a power and feedback cable. A special cable structure and high quality materials ensure a long service life. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance-free operation of servo-motors. The CC-Servo PVC-C-577 combines power cores and shielded control cores and can be used for occasional flexible applications.

Construction

Power cores 0,75 mm² - 35 mm²

Fine strands of bare copper wires, PVC core insulation, cores are black with consecutive white numbering and green/yellow protective conductor.

Control cores 0,34 mm² - 1,5 mm²

Fine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering, twisted in pairs, pairs with aluminium foil, tinned drain wire, tinned copper shield, special foil wrapping. Power cores and paired control cores twisted together in short lay lengths, tinned copper shield, fleece. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Colour grey (RAL 7001) or *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

VDE/IEC: power cores 600/1000 V
control cores 300/500 V

UL/CSA: 1000 V

Test voltage:

power cores: core/core 4000 V
core/shield 750 V

control cores: core/core 1000 V
core/shield 750 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

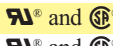
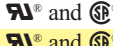
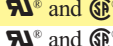
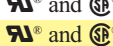
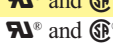
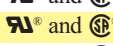
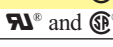

20 × cable diameter

Approvals:

acc. to VDE 0281
cUL: Style 20886

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
577 4007 2203 50	[4 G 0,75 + 2 × (2 × 0,34)(St)C]CY	grey	114,0	11,5	171
577 4015 2207 50	[4 G 1,5 + 2 × (2 × 0,75)(St)C]CY	grey	160,0	13,8	256
577 4025 2207 50	[4 G 2,5 + 2 × (2 × 0,75)(St)C]CY	grey	231,0	16,2	394
577 4040 207 210 50	[4 G 4 + (2 × 0,75)(St)C + (2 × 1,0) (St)C]CY	grey	312,0	18,9	492
577 4060 207 210 50	[4 G 6 + (2 × 0,75)(St)C + (2 × 1,0) (St)C]CY	grey	368,5	20,2	621
577 4100 207 210 50	[4 G 10 + (2 × 0,75)(St)C + (2 × 1,0) (St)C]CY	grey	603,8	24,3	842
577 4160 2210 50	[4 G 16 + 2 × (2 × 1,0)(St)C]CY	grey	856,3	27,5	1186
577 4250 2215 50	[4 G 25 + 2 × (2 × 1,5)(St)C]CY	grey	1232,0	30,0	1672
577 4350 2215 50	[4 G 35 + 2 × (2 × 1,5)(St)C]CY	grey	1677,0	34,2	2116
577 4015 215	[4 G 1,5 + (2 × 1,5)]CY	orange	154,0	12,3	242
577 4025 215	[4 G 2,5 + (2 × 1,5)]CY	orange	266,0	13,7	380
577 4040 215	[4 G 4 + (2 × 1,5)]CY	orange	339,0	15,9	478
577 4060 215	[4 G 6 + (2 × 1,5)]CY	orange	419,0	18,4	607
577 4100 215	[4 G 10 + (2 × 1,5)]CY	orange	595,0	22,9	828
577 4160 215	[4 G 16 + (2 × 1,5)]CY	orange	843,0	25,6	1116
577 4250 215	[4 G 25 + (2 × 1,5)]CY	orange	1203,0	29,7	1633
577 4350 215	[4 G 35 + (2 × 1,5)]CY	orange	1663,0	33,9	2087
577 4015 215 08	[4 G 1,5/AWG 16 + (2 × 1,5/AWG 16)]CY 	orange	154,0	12,3	242
577 4025 215 08	[4 G 2,5/AWG 14 + (2 × 1,5/AWG 16)]CY 	orange	266,0	13,7	380
577 4040 215 08	[4 G 4/AWG 12 + (2 × 1,5/AWG 16)]CY 	orange	339,0	15,9	478
577 4060 215 08	[4 G 6/AWG 10 + (2 × 1,5/AWG 16)]CY 	orange	419,0	18,4	607
577 4100 215 08	[4 G 10/AWG 8 + (2 × 1,5/AWG 16)]CY 	orange	595,0	22,9	828
577 4160 215 08	[4 G 16/AWG 6 + (2 × 1,5/AWG 16)]CY 	orange	843,0	25,6	1116
577 4250 215 08	[4 G 25/AWG 4 + (2 × 1,5/AWG 16)]CY 	orange	1203,0	29,7	1633
577 4350 215 08	[4 G 35/AWG 2 + (2 × 1,5/AWG 16)]CY 	orange	1663,0	33,9	2087



Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world

CC-Servoflex PUR-579

Superflexible motor-supply cable 0.6/1 kV
Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Servoflex-579 0,6/1kV CE



CC-Servoflex PUR-579 is designed for electronically controlled servo motors and as a power and feedback cable for power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and where aggressive and mineral oils occur. A special cable structure and high quality materials ensure a long service life. The PUR outer sheath is highly cut and notch resistant and non-abrasive. CC-Servoflex PUR-579 combines power cores and shielded control cores.

Construction

Power cores 0,75 mm² - 35 mm²

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering 1-3 and green/yellow protective conductor.

Control cores 0,34 mm² - 1,5 mm²

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering, cores twisted in pairs, pairs with aluminium foil, tinned drain wire, tinned copper shield, special foil wrapping. Power and paired control cores twisted in short lay lengths, fleece. PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour orange (RAL 2003).

Technical data

Rated voltage:

power cores: 600/1000 V
control cores: 300/500 V

Test voltage:

power cores: core/core 4000 V
control cores: core/core 1000 V
core/shield 750 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
579 4007 2203	4 G 0,75 + 2 × (2 × 0,34)	94,0	9,7	125
579 4015 2205	4 G 1,5 + 2 × (2 × 0,50)	104,0	11,0	320
579 4015 2207	4 G 1,5 + 2 × (2 × 0,75)	104,0	11,4	350
579 4025 2215	4 G 2,5 + 2 × (2 × 1,5)	226,0	17,3	416
579 4040 2215	4 G 4 + 2 × (2 × 1,5)	284,0	18,6	530
579 4060 2215	4 G 6 + 2 × (2 × 1,5)	341,0	18,8	616
579 4100 2215	4 G 10 + 2 × (2 × 1,5)	487,0	24,0	840
579 4160 2215	4 G 16 + 2 × (2 × 1,5)	718,0	26,5	1230
579 4250 2215	4 G 25 + 2 × (2 × 1,5)	1063,0	30,0	1740
579 4350 2215	4 G 35 + 2 × (2 × 1,5)	1645,0	32,2	2410
579 4015 215	4 G 1,5 + (2 × 1,5)	118,0	10,9	350
579 4025 215	4 G 2,5 + (2 × 1,5)	166,0	11,7	386
579 4040 215	4 G 4 + (2 × 1,5)	234,0	13,3	402
579 4060 215	4 G 6 + (2 × 1,5)	318,0	16,3	586
579 4100 215	4 G 10 + (2 × 1,5)	513,0	19,2	810
579 4160 215	4 G 16 + (2 × 1,5)	797,0	21,9	1198
579 4250 215	4 G 25 + (2 × 1,5)	1268,0	25,8	1705
579 4350 215	4 G 35 + (2 × 1,5)	1683,0	30,4	2374



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servoflex PUR-C-582



Halogen-free superflexible motor cable 0.6/1 kV, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Servoflex-C-582 0,6/1kV DESINA CE



CC-Servoflex PUR-C-582 shielded and *DESINA*[®] conforming is designed for electronically controlled servo motors and as a power and feedback cable for power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and in areas where aggressive and mineral oils occur.

A special cable structure and high quality materials ensure a long service life. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance-free operation of servo motors. The PUR outer sheath is highly cut, notch and abrasion resistant. The CC-Servoflex PUR-C-582 combines power cores and shielded paired control cores.

Construction

Power cores 0,75 mm² - 35 mm²

Superfine strands of bare copper wires, TPE core insulation, cores are black, numbered in white 1-3 and green/yellow protective conductor.

Control cores 0,34 mm² - 2,5 mm²

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering, twisted in pairs, pairs shielded with aluminium foil, tinned drain wire, tinned copper shield, special wrapping, fleece. Power and paired control cores twisted in very short lay lengths, fleece, tinned copper shield, fleece.

PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1),

non-adhesive, resistant to hydrolysis and microbes.
Colour *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

power cores: 600/1000 V
control cores: 300/500 V

Test voltage:

power cores: core/core 4000 V
core/shield 2000 V
control cores: core/core 2000 V
core/shield 1000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281

ConCab kabel connects the world

Part-No.	No. of cores + cross-section	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
582 4007 2203	[4 G 0,75 + 2 × (2 × 0,34)]	orange	114,0	11,0	171
582 4010 2207	[4 G 1,0 + 2 × (2 × 0,75)]	orange	156,0	12,0	284
582 4015 2205	[4 G 1,5 + 2 × (2 × 0,50)]	orange	178,0	12,1	340
582 4015 2207	[4 G 1,5 + 2 × (2 × 0,75)]	orange	184,0	12,1	370
582 4025 2215	[4 G 2,5 + 2 × (2 × 1,5)]	orange	296,0	15,1	441
582 4040 2215	[4 G 4 + 2 × (2 × 1,5)]	orange	366,0	17,8	565
582 4040 2207 210	[4 G 4 + (2 × 0,75) + (2 × 1,0)]	orange	331,0	17,8	545
582 4060 2215	[4 G 6 + 2 × (2 × 1,5)]	orange	449,0	18,0	652
582 4100 2215	[4 G 10 + 2 × (2 × 1,5)]	orange	625,0	21,5	885
582 4100 2207 210	[4 G 10 + (2 × 0,75) + (2 × 1,0)]	orange	595,0	23,8	865
582 4160 2210	[4 G 16 + 2 × (2 × 1,0)]	orange	863,0	23,2	1220
582 4160 2215	[4 G 16 + 2 × (2 × 1,5)]	orange	873,0	26,8	1284
582 4250 2215	[4 G 25 + 2 × (2 × 1,5)]	orange	1233,0	29,2	1782
582 4350 2215	[4 G 35 + 2 × (2 × 1,5)]	orange	1723,0	32,4	2570
582 4500 2225	[4 G 50 + 2 × (2 × 2,5)]	orange	2597,0	37,0	3316
582 4015 210	[4 G 1,5 + (2 × 1,0)]	petrol	154,0	12,0	231
582 4025 210	[4 G 2,5 + (2 × 1,0)]	petrol	266,0	12,8	287
582 4040 210	[4 G 4 + (2 × 1,0)]	petrol	336,0	14,4	375
582 4060 210	[4 G 6 + (2 × 1,0)]	petrol	419,0	17,6	459
582 4100 210	[4 G 10 + (2 × 1,0)]	petrol	595,0	20,4	735
582 4160 210	[4 G 16 + (2 × 1,0)]	petrol	843,0	23,4	1118
582 4250 215	[4 G 25 + (2 × 1,5)]	petrol	1203,0	28,0	1447
582 4350 215	[4 G 35 + (2 × 1,5)]	petrol	1663,0	32,3	1916
582 4500 215	[4 G 50 + (2 × 1,5)]	petrol	2530,0	35,3	2845
582 4015 210 8	[4 G 1,5 + (2 × 1,0)]	orange	154,0	12,0	231
582 4025 210 8	[4 G 2,5 + (2 × 1,0)]	orange	266,0	12,8	287
582 4040 210 8	[4 G 4 + (2 × 1,0)]	orange	336,0	14,4	375
582 4060 210 8	[4 G 6 + (2 × 1,0)]	orange	419,0	17,6	459
582 4100 210 8	[4 G 10 + (2 × 1,0)]	orange	595,0	20,4	735
582 4160 210 8	[4 G 16 + (2 × 1,0)]	orange	843,0	23,4	1118
582 4250 215 8	[4 G 25 + (2 × 1,5)]	orange	1203,0	28,0	1447
582 4350 215 8	[4 G 35 + (2 × 1,5)]	orange	1663,0	32,3	1916
582 4500 215 8	[4 G 50 + (2 × 1,5)]	orange	2530,0	35,3	2845



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servoflex PUR-C-582

Halogen-free superflexible cable 0.6/1 kV, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt - 582 4 x 2,5 + 2 x 2 x 1,5 E 172073 cUL AWM STYLE 20234 1000V 80°C DESINA CE



CC-Servoflex PUR-C-582 shielded UL/CSA and *DESINA*[®] conforming is designed for electronically controlled servo motors and as a supply and feedback cable for power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and in areas where aggressive and mineral oils occur.

A special cable structure and high quality materials ensure a long service life. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance-free operation of servo motors. The PUR outer sheath is highly cut, notch and abrasion resistant. The CC-Servoflex PUR-C-582 combines power cores and shielded paired control cores.

Construction

Power cores 0,75 mm² - 35 mm²

Superfine strands of bare copper wires, TPE core insulation, cores are black, numbered in white 1-3 and green/yellow protective conductor.

Control cores 0,34 mm² - 2,5 mm²

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering, twisted in pairs, pairs shielded with aluminium foil, tinned drain wire, tinned copper shield, special wrapping, fleece. Power and paired control cores twisted in very short lay lengths, fleece, tinned copper shield, fleece.

PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp.

EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

power cores:
VDE/IEC: 600/1000 V
UL/CSA: 1000 V
control cores:
VDE/IEC: 300/500 V
UL/CSA: 1000 V

Test voltage:

power cores: core/core 4000 V
core/shield 2000 V
control cores: core/core 2000 V
core/shield 1000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281
UL: Style 10264, 20234
CSA: AWM I A/B, II A/B FT1

ConCab kabel connects the world

Part-No.	No. of cores + cross-section/AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
582 4007 2203 08	[4 G 0,75/AWG 19 + 2 × (2 × 0,34/AWG 22)]	114,0	11,0	171
582 4010 2207 08	[4 G 1,0/AWG 18 + 2 × (2 × 0,75/AWG 19)]	156,0	11,5	284
582 4015 2205 08	[4 G 1,5/AWG 16 + 2 × (2 × 0,50/AWG 20)]	178,0	12,1	340
582 4015 2207 08	[4 G 1,5/AWG 16 + 2 × (2 × 0,75/AWG 19)]	184,0	12,1	370
582 4025 2215 08	[4 G 2,5/AWG 14 + 2 × (2 × 1,5/AWG 16)]	296,0	15,1	441
582 4040 2215 08	[4 G 4/AWG 12 + 2 × (2 × 1,5/AWG 16)]	366,0	16,0	565
582 4060 2215 08	[4 G 6/AWG 10 + 2 × (2 × 1,5/AWG 16)]	449,0	18,0	652
582 4100 2215 08	[4 G 10/AWG 8 + 2 × (2 × 1,5/AWG 16)]	625,0	22,6	885
582 4160 2215 08	[4 G 16/AWG 6 + 2 × (2 × 1,5/AWG 16)]	873,0	25,2	1284
582 4250 2215 08	[4 G 25/AWG 4 + 2 × (2 × 1,5/AWG 16)]	1233,0	28,0	1782
582 4350 2215 08	[4 G 35/AWG 2 + 2 × (2 × 1,5/AWG 16)]	1723,0	30,5	2570
582 4500 2225 08	[4 G 50/AWG 1 + 2 × (2 × 2,5/AWG 14)]	2597,0	37,0	3316
582 4015 210 08	[4 G 1,5/AWG 16 + (2 × 1,0/AWG 18)]	118,0	11,6	205
582 4015 215 08	[4 G 1,5/AWG 16 + (2 × 1,5/AWG 16)]	154,0	12,0	231
582 4025 215 08	[4 G 2,5/AWG 14 + (2 × 1,5/AWG 16)]	266,0	12,8	287
582 4040 215 08	[4 G 4/AWG 12 + (2 × 1,5/AWG 16)]	336,0	14,4	375
582 4060 215 08	[4 G 6/AWG 10 + (2 × 1,5/AWG 16)]	419,0	15,9	459
582 4100 215 08	[4 G 10/AWG 8 + (2 × 1,5/AWG 16)]	595,0	18,0	735
582 4160 215 08	[4 G 16/AWG 6 + (2 × 1,5/AWG 16)]	843,0	21,8	1118
582 4250 215 08	[4 G 25/AWG 4 + (2 × 1,5/AWG 16)]	1203,0	26,7	1447
582 4350 215 08	[4 G 35/AWG 2 + (2 × 1,5/AWG 16)]	1663,0	30,8	1916
582 4500 215 08	[4 G 50/AWG 1 + (2 × 1,5/AWG 16)]	2530,0	34,7	2845



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

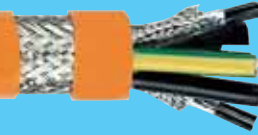
CC-Servoflex PUR-C-584

Low-capacitance halogen-free superflexible motor cable 0.6/1kV, shielded

Conforms to EU low-voltage guideline 73/23/EWG CE



ConCab kabel Mainhardt 584 - 4 x 2,5 + 2 x 2 x 1,5 QMM, E 172073 cUL AWM STYLE 20234 1000V 80°C DESINA CE



CC-Servoflex PUR-C-584 shielded UL/CSA and *DESINA*[®] conforming with low capacitance is designed for electronically controlled servo motors and as a power and feedback cable for power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and in areas where aggressive and mineral oils occur. A special cable structure and high quality materials ensure a long service life. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance-free operation of servo motors. The PUR outer sheath is highly cut, notch and abrasion resistant. The CC-Servoflex PUR-C-584 combines power cores and shielded paired control cores.

Construction

Power cores 0,75 mm² - 35 mm²

Superfine strands of bare copper wires, polyolefin core insulation, cores are black, numbered in white 1-3 and green/yellow protective conductor.

Control cores 0,34 mm² - 2,5 mm²

Superfine strands of bare copper wires, polyester (TPE) core insulation, cores are black with consecutive white numbering, twisted in pairs, pairs shielded with aluminium foil, tinned drain wire, tinned copper shield, foil wrapping. Power and paired control cores twisted in very short lay lengths, fleece, tinned copper shield, fleece.

PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

power cores:
VDE/IEC: 600/1000 V
UL/CSA: 1000 V
control cores:
VDE/IEC: 300/500 V
UL/CSA: 1000 V

Test voltage:

power cores: core/core 4000 V
core/shield 2000 V
control cores: core/core 2000 V
core/shield 1000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Operating capacity at 800 Hz:

core/core approx. 70 nF/km
core/shield approx. 110 nF/km

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Approvals:

acc. to VDE 0245, 0281
UL: Style 10264, 20234
CSA: AWM I A/B, II A/B FT1

ConCab kabel connects the world



Part-No.	No. of cores + cross-section/AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
584 4007 2203 08	[4 G 0,75/AWG 19 + 2 × (2 × 0,34/AWG 22)]	114,0	11,0	171
584 4010 2207 08	[4 G 1,0/AWG 18 + 2 × (2 × 0,75/AWG 19)]	156,0	11,5	284
584 4015 2205 08	[4 G 1,5/AWG 16 + 2 × (2 × 0,50/AWG 20)]	178,0	12,1	340
584 4015 2207 08	[4 G 1,5/AWG 16 + 2 × (2 × 0,75/AWG 19)]	184,0	12,1	370
584 4025 2215 08	[4 G 2,5/AWG 14 + 2 × (2 × 1,5/AWG 16)]	296,0	15,1	441
584 4040 2215 08	[4 G 4/AWG 12 + 2 × (2 × 1,5/AWG 16)]	366,0	16,0	565
584 4060 2215 08	[4 G 6/AWG 10 + 2 × (2 × 1,5/AWG 16)]	449,0	18,0	652
584 4100 2215 08	[4 G 10/AWG 8 + 2 × (2 × 1,5/AWG 16)]	625,0	22,6	885
584 4160 2215 08	[4 G 16/AWG 6 + 2 × (2 × 1,5/AWG 16)]	873,0	25,2	1284
584 4250 2215 08	[4 G 25/AWG 4 + 2 × (2 × 1,5/AWG 16)]	1233,0	28,0	1782
584 4350 2215 08	[4 G 35/AWG 2 + 2 × (2 × 1,5/AWG 16)]	1723,0	30,5	2570
584 4500 2225 08	[4 G 50/AWG 1 + 2 × (2 × 2,5/AWG 14)]	2597,0	37,0	3316
584 4015 215 08	[4 G 1,5/AWG 16 + (2 × 1,5/AWG 16)]	154,0	12,0	231
584 4025 215 08	[4 G 2,5/AWG 14 + (2 × 1,5/AWG 16)]	266,0	12,8	287
584 4040 215 08	[4 G 4/AWG 12 + (2 × 1,5/AWG 16)]	336,0	14,4	375
584 4060 215 08	[4 G 6/AWG 10 + (2 × 1,5/AWG 16)]	419,0	15,9	459
584 4100 215 08	[4 G 10/AWG 8 + (2 × 1,5/AWG 16)]	595,0	18,0	735
584 4160 215 08	[4 G 16/AWG 6 + (2 × 1,5/AWG 16)]	843,0	21,8	1118
584 4250 215 08	[4 G 25/AWG 4 + (2 × 1,5/AWG 16)]	1203,0	26,7	1447
584 4350 215 08	[4 G 35/AWG 2 + (2 × 1,5/AWG 16)]	1663,0	30,8	1916
584 4500 215 08	[4 G 50/AWG 1 + (2 × 1,5/AWG 16)]	2530,0	34,7	2845



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Servoflex-Linear PUR-C-592

Halogen-free superflexible motor-supply cable, shielded
Conforms to EU low-voltage guideline 73/23/EWG CE



ConCab kabel Mainhardt 592 - 4 x 2,5 + 4 x 0,5 QMM, E 172073 cUL AWM STYLE 20234 1000V 80°C DESINA CE



CC-Servoflex PUR-C-592 shielded UL/CSA and *DESINA*[®] conforming is designed for electronically controlled linear motors and as a power and feedback cable for power supply chains, automatic handling equipment and robots. It can be used in- and outdoors and in areas where aggressive and mineral oils occur. A special cable structure and high quality materials ensure a long service life. Due to the overall copper shield the cable meets the electromagnetic compatibility (EMC) requirements and ensures a disturbance-free operation of servo motors. The PUR outer sheath is highly cut, notch and abrasion resistant. The CC-Servoflex-Linear PUR-C-592 combines power cores and shielded paired control cores.

Construction

Power cores 1,5 mm² - 25 mm²

Superfine strands of bare copper wires, TPE core insulation, cores are black, numbered in white 1-3 and green/yellow protective conductor.

Control cores 0,5 mm²

Superfine strands of bare copper wires, TPE core insulation, cores are red, yellow, black and white. Cores twisted to quad. Tinned copper shield. Power and control cores twisted in very short lay lengths, fleece, tinned copper shield, fleece.

PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour *DESINA*[®]-orange (RAL 2003).

Technical data

Rated voltage:

power cores:
VDE/IEC: 600/1000 V
UL/CSA: 1000 V
control cores:
VDE/IEC: 300/500 V
UL/CSA: 1000 V

Test voltage:

power cores: core/core 4000 V
core/shield 2000 V
control cores: core/core 2000 V
core/shield 1000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

10 × cable diameter

Approvals:

acc. to VDE 0245, 0281
UL: Style 10264, 20234
CSA: AWM I A/B, II A/B FT1

ConCab kabel connects the world



Part-No.	No. of cores + cross-section/AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
592 4015 405 08	[4 G 1,5/AWG 16 + (4 × 0,5/AWG 20)]	150	13,7	315
592 4025 405 08	[4 G 2,5/AWG 14 + (4 × 0,5/AWG 20)]	190	14,8	394
592 4040 405 08	[4 G 4/AWG 12 + (4 × 0,5/AWG 20)]	250	16,2	526
592 4060 405 08	[4 G 6/AWG 10 + (4 × 0,5/AWG 20)]	350	18,4	614
592 4100 405 08	[4 G 10/AWG 8 + (4 × 0,5/AWG 20)]	550	22,9	837
592 4160 405 08	[4 G 16/AWG 6 + (4 × 0,5/AWG 20)]	770	26,0	1236
592 4250 405 08	[4 G 25/AWG 4 + (4 × 0,5/AWG 20)]	1120	30,5	1734



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Robotflex PUR-90

Halogen-free superflexible robotic cable
Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Robotflex-90 CE



CC-Robotflex PUR-90 is designed for robotic systems, automatic handling equipment and for machineries with no special movement schedule. It can be used in- and outdoors. A special cable construction and high quality components allow the cable to meet high bending radius and torsion cycles over a long service life. It can be used in areas where aggressive and mineral oils occur and where the cable is exposed to high mechanical stress. The PUR outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wires, polyester (TPE) core insulation, core colours acc. to DIN 47100. Cores from 0,5 mm² are black with consecutive white numbering, 3 cores or more contain green/yellow protective conductor in the outer layer. Cores twisted in bundles and laid in layers, special core wrapping over each layer. PUR-based outer sheath, UV-resistant, non-adhesive, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), resistant to hydrolysis and microbes. Colour black.

Technical data

Rated voltage:

up to 0,34 mm²: 300 V
from 0,50 mm²: 300/500 V

Test voltage:

up to 0,34 mm²: 1500 V
from 0,50 mm²: 3000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

7,5 × cable diameter

Torsion angle:

± 360° per meter

Approvals:

acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
90 0002 070	7 × 0,25	16,8	6,3	46
90 0002 250	25 × 0,25	60,0	9,8	144
90 0003 020	2 × 0,34	6,6	4,8	28
90 0005 180	18 G 0,50	86,4	10,9	186
90 0005 250	25 G 0,50	120,0	13,8	254
90 0007 040	4 G 0,75	28,8	6,7	68
90 0007 140	14 G 0,75	100,8	11,7	214
90 0010 020	2 × 1,0	19,2	6,2	47
90 0010 030	3 G 1,0	29,0	7,0	64
90 0010 040	4 G 1,0	38,4	7,5	78
90 0010 070	7 G 1,0	67,0	10,0	129
90 0010 120	12 G 1,0	115,0	12,0	208
90 0010 180	18 G 1,0	173,0	14,2	286
90 0010 250	25 G 1,0	240,0	16,9	384
90 0010 340	34 G 1,0	326,0	18,9	501
90 0010 410	41 G 1,0	394,0	22,0	600
90 1610 210 00	16 G 1,0 + (2 G 1,0)	196,0	16,6	375
90 2310 210 00	23 G 1,0 + (2 G 1,0)	262,0	17,5	471
90 0015 180	18 G 1,5	259,0	16,7	424
90 0015 250	25 G 1,5	360,0	20,8	574
90 0025 030	3 G 2,5	72,0	9,7	157
90 0025 040	4 G 2,5	96,0	10,6	189
90 0040 030	3 G 4	115,0	12,2	224
90 0100 030	3 G 10	288,0	17,3	508
90 0160 030	3 G 16	461,0	21,7	756
90 0250 030	3 G 25	720,0	27,2	1226
90 0350 030	3 G 35	1008,0	29,4	1614

Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world



CC-Robotflex PUR-C-91

Halogen-free superflexible robotic cable, shielded
Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Robotflex-C-91 CE



CC-Robotflex PUR-C-91 shielded is used in robotic systems, automatic handling equipment and in machinery with no special moving schedule.

A special cable construction and high quality components allow the cable to meet high bending radius and torsion cycles over a long service life. It can be used in areas where aggressive and mineral oil occur and where the cable is exposed to high mechanical stress. The PUR outer sheath is cut and notch resistant and non-abrasive.

Construction

Superfine strands of bare copper wires, polyester (TPE) core insulation, core colours acc. to DIN 47100. Cores from 0,5 mm² black with consecutive white numbering, 3 cores or more contain a green/yellow protective conductor in the outer layer. Cores twisted in bundles and laid in layers, special core wrapping over each layer. Spiral shield of tinned copper wires, PUR-based outer sheath, UV-resistant, non-adhesive, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), resistant to hydrolysis and microbes. Colour black.

Technical data

Rated voltage:

up to 0,34 mm²: 300 V
from 0,50 mm²: 500 V

Test voltage:

up to 0,34 mm²: 1500 V
from 0,50 mm²: 3000 V

Conductor stranding:

superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:

min. 100 MOhm × km

Temperature range:

-30°C to +80°C

Bending radius:

10 × cable diameter

Torsion angle:

± 360° per meter

Approvals:

acc. to VDE 0245, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
91 0001 120	[12 × 0,14]	42,0	7,9	92
91 0002 250	[25 × 0,25]	97,0	12,3	195
91 0003 040	[4 × 0,34]	22,0	5,6	46
91 0015 120	[12 G 1,5]	260,0	14,2	390
91 0015 1201	[12 × 1,5]	260,0	16,0	390
91 1015 018	[18 G 1,5]	380,0	17,0	595
92 0001 030	[3 × 2 × 0,14]	18,0	6,1	51
92 0003 050	[5 × 2 × 0,34]	66,0	8,9	125
93 6402 101	6 × (4 × 0,21) + 1 × (3 × 0,21)	98,0	11,3	233
93 1417 022 10	2 × 0,21 + 2 × 0,14 + 4 × (2 × 0,14) + 2 × (2 × 0,21) + 3 × 0,14	173,0	8,4	300



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Sensor-Actuator PVC-566

Data cable for decentralized machine installations
Conforms to EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt Sensor-Aktor-566 CE

Also available pre-assembled with sockets and connectors.

The Sensor-Actuator cable PVC-566 has been designed for special installation and control technology applications. Pre-assembled with sockets and connectors, it grants high flexibility to make adjustments, extensions or changes at automation lines.

Construction

Fine strands of bare copper wire, PVC core insulation, core colours as described in the table below, cores twisted in layers. PVC outer sheath, resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300 V

Test voltage:
1200 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +80°C

Bending radius:
15 × cable diameter



Approvals:
according to VDE 0245, 0281, 0812

Part-No.	No. of cores + cross-section	Core colours	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
566 0002 003	3 × 0,25	bn, bu, bk	7,2	4,4	23
566 0002 004	4 × 0,25	bn, bu, bk, wh	9,6	4,7	25
566 0002 005	5 × 0,25	bn, bu, bk, wh, gnye	12,0	4,8	32
566 0003 003	3 × 0,34	bn, bu, bk	9,8	4,9	29
566 0003 004	4 × 0,34	bn, bu, bk, wh	13,1	5,2	43
566 0003 005	5 × 0,34	bn, bu, bk, wh, gnye	16,3	5,9	55

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CC-Schleppflex[®] Sensor-Actuator PUR-567 [®] and Distribution Cable

Superflexible data cable for machine installations
Conforms to EU low-voltage guideline 73/23/EEC 

ConCab kabel Mainhardt 567 4 x 0,25 E172073  STYLE 20233 300V 80°C DESINA 

Also available pre-assembled with sockets and connectors.

The CC-Schleppflex Sensor-Actuator PUR-567 and distribution cable have been designed for special installation and control technology applications. Pre-assembled with sockets and connectors, it grants high flexibility to make adjustments, extensions or changes at automation lines.

Construction

Superfine strands of bare copper wire, PVC-based or Polypropylene core insulation, core colours as described in the table below, cores twisted in layers.

PUR outer sheath, extensively resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes.
Colour *DESINA*[®] -yellow (RAL 1021) or black (RAL 9005).



Technical data

Rated voltage:
300 V

Test voltage:
1200 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +80°C
flexible application halogen-free: -20°C to +80°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0245, 0281, 0812
DESINA[®]

Part-No.	No. of cores + cross-section	Core colours	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
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Sensor-Actuator Cable outer sheath yellow					
567 0002 003	3 × 0,25	bn, bu, bk	7,2	4,4	23
567 0002 004	4 × 0,25	bn, bu, bk, wh	9,6	4,7	25
567 0002 005	5 × 0,25	bn, bu, bk, wh, gnye	12,0	5,1	32
Distribution Cable outer sheath black					
104 26 001	8 × 0,34 + 3 × 1*	bk with No. 1 to 8 bn, bu, gnye,	55,2	9,7	139
145 94 001	16 × 0,5 + 3 × 1*	bk, whgy, whye, whgn, gypk, gn, rdbu, gy, rd, vt, gybn, pk, ye, wh, bngn, yebn + bu, bn, gnye	110,0	11,4	197
145 94 002	16 × 0,5 + 3 × 1* halogen-free	bk, whgy, whye, whgn, gypk, gn, rdbu, gy, rd, vt, gybn, pk, ye, wh, bngn, yebn + bu, bn, gnye	110,0	11,4	200

*without 

CERTIFICATE

WE HEREWITH CERTIFY THAT
THE FOLLOWING NAMED DEVICE TYPE
HAS PASSED THE RELEVANT TESTS,
IN ACCORDANCE WITH THE
INTERBUS
CONFORMANCE REQUIREMENTS.



Certified! No. 148

MANUFACTURER **ConCab Kabel GmbH**

Äußerer Eichwald

D- 74535 Mainhardt

DEVICE TYPE **Feldbusleitung CC - Bus**

PROTOCOL TYPE

CERTIFICATION NO. / DATE **148/ February 13th, 1998**

PLACE / DATE **Baden-Baden / February 19th, 1998**

INTERBUS Club

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CC-BUS-CABLES

Fieldbus	Norm	Part-No.	Type	Application	RV [®]	SP [®]	Page		
PROFIBUS [®] (SUCOnet P [®] , Modulink P [®] ,*) up to 500 kbit/s	DIN 19245 part 1+2 EN 50170	93 022 016	BUS-PVC-C (1 × 2 × 0,22)	fixed installation	✓	✓	124		
		93 022 026	BUS-PVC-C (2 × 2 × 0,22)	fixed installation	✓	✓	124		
		94 025 016	BUS-Schleppflex-PUR-C (1 × 2 × 0,25)	flexible	✓	✓	126		
		94 025 026	BUS-Schleppflex-PUR-C (2 × 2 × 0,25)	flexible	✓	✓	126		
PROFIBUS DP (SINEC [®] L2 SIMATIC NET F.I.P) up to 12 Mbit/s	DIN 19245 part 3 EN 50170	93 064 0161	BUS-PVC-C (1 × 2 × 0,64 Ø)	fixed installation	✓		124		
		93 064 0163	BUS-H-C (1 × 2 × 0,64 Ø) halogen-free	fixed installation	✓		124		
		93 064 0164	BUS-PVC-C (1 × 2 × 0,64 Ø) FAST CONNECT	fixed installation	✓		124		
		93 064 0102	BUS-PVC-C (1 × 2 × 0,64 Ø) black, buried in ground, UV-resistant	fixed installation	✓		124		
		93 064 01310	BUS-PVC-C (1 × 2 × 0,64 Ø) + 3 × 1	fixed installation	✓		124		
		94 024 016	BUS-Schleppflex-PUR-C (1 × 2 × 0,64 Ø)	flexible	✓		126		
		94 024 0164	BUS-Schleppflex-PUR-C (1 × 2 × 0,64 Ø) FAST CONNECT	flexible	✓		126		
		94 064 01310	BUS-Schleppflex-PUR-C (1 × 2 × 0,64 Ø) + 3 × 1	flexible	✓		126		
PROFIBUS PA for explosive areas	DIN 19245 EN 50170	95 18 111	BUS-PA 02Y(St)CY 1 × 2 × AWG 18/1 blue	fixed installation			138		
		95 18 110	BUS-PA 02Y(St)CY 1 × 2 × AWG 18/1 black	fixed installation			138		
		95 18 911	BUS-PA 02Y(St)CY 1 × 2 × AWG 18/19 blue	flexible			138		
		95 18 910	BUS-PA 02Y(St)CY 1 × 2 × AWG 18/19 black	flexible			138		
		95 18 914	BUS-PA 02Y(St)CY 1 × 2 × AWG 18/19 blue FAST CONNECT	flexible			138		
		95 18 9104	BUS-PA 02Y(St)CY 1 × 2 × AWG 18/19 black FAST CONNECT	flexible			138		
CAN up to 1 Mbit/s	ISO 11898	93 022 016	BUS PVC-C (1 × 2 × 0,22)	fixed installation	✓	✓	128		
		93 022 026	BUS PVC-C (2 × 2 × 0,22)	fixed installation	✓	✓	128		
		93 034 016	BUS PVC-C (1 × 2 × 0,34)	fixed installation	✓	✓	128		
		93 034 026	BUS PVC-C (2 × 2 × 0,34)	fixed installation	✓	✓	128		
		93 050 016	BUS PVC-C (1 × 2 × 0,50)	fixed installation	✓	✓	128		
		93 050 026	BUS PVC-C (2 × 2 × 0,50)	fixed installation	✓	✓	128		
		93 075 016	BUS PVC-C (1 × 2 × 0,75)	fixed installation	✓	✓	128		
		93 075 026	BUS PVC-C (2 × 2 × 0,75)	fixed installation	✓	✓	128		
		94 025 016	BUS-Schleppflex PUR-C (1 × 2 × 0,25)	flexible	✓	✓	129		
		94 025 026	BUS-Schleppflex PUR-C (2 × 2 × 0,25)	flexible	✓	✓	129		
		94 034 016	BUS-Schleppflex PUR-C (1 × 2 × 0,34)	flexible	✓	✓	129		
		94 034 026	BUS-Schleppflex PUR-C (2 × 2 × 0,34)	flexible	✓	✓	129		
		94 050 016	BUS-Schleppflex PUR-C (1 × 2 × 0,50)	flexible	✓	✓	129		
		94 050 026	BUS-Schleppflex PUR-C (2 × 2 × 0,50)	flexible	✓	✓	129		
		INTERBUS [®] SENSOR-/ ACTOR-BUS	DIN 19258 EN 50254	93 022 036	BUS PVC-C (3 × 2 × 0,22)	fixed installation	✓	✓	124
				93 022 03001	BUS PVC-C (3 × 2 × 0,22 + 3 × 1)	fixed installation	✓	✓	124
94 025 036	BUS-Schleppflex PUR-C (3 × 2 × 0,25)			flexible	✓	✓	126		
94 025 03601	BUS-Schleppflex PUR-C (3 × 2 × 0,25 + 3 × 1)			flexible	✓	✓	126		
BITBUS	IEEE 1118	93 022 036	BUS PVC-C (3 × 2 × 0,22)	fixed installation	✓	✓	124		
		94 025 036	BUS-Schleppflex PUR-C (3 × 2 × 0,25)	flexible	✓	✓	126		
DIN-Meß-Bus	DIN 66348 ISO 8482	93 022 036	BUS PVC-C (3 × 2 × 0,22)	fixed installation	✓	✓	124		
		94 025 036	BUS-Schleppflex PUR-C (3 × 2 × 0,25)	flexible	✓	✓	126		
AS-INTERFACE		93 021510	BUS AS-1 2 × 1,5 black PVC/TPE	flexible			130		
		93 021519	BUS AS-1 2 × 1,5 yellow PVC/TPE	flexible			130		
		93 02215 10	BUS AS-1 2 × 1,5 black PVC/PVC	flexible	✓	✓	130		
		93 02215 19	BUS AS-1 2 × 1,5 yellow PVC/PVC	flexible	✓	✓	130		
		93 07215 10	BUS AS-1 2 × 1,5 black EPDM	flexible			130		
		93 07215 19	BUS AS-1 2 × 1,5 yellow EPDM	flexible			130		
DeviceNet™	EN 50325 ISO 11898	910 11511805	Thick Cable 1 × 2 × AWG 15 + 1 × 2 × AWG 18 grey	fixed installation	✓	✓	134		
		910 11511806	Thick Cable 1 × 2 × AWG 15 + 1 × 2 × AWG 18 violet	fixed installation	✓	✓	134		
		910 12212405	Thin Cable 1 × 2 × AWG 22 + 1 × 2 × AWG 24 grey	fixed installation	✓	✓	134		
		910 12212406	Thin Cable 1 × 2 × AWG 22 + 1 × 2 × AWG 24 violet	fixed installation	✓	✓	134		
		912 12212406	Thin Cable 1 × 2 × AWG 22 + 1 × 2 × AWG 24 violet halogen-free	fixed installation	✓	✓	134		
		911 11511809	Schleppflex Thick Cable 1 × 2 × AWG 15 + 1 × 2 × AWG 18 yellow	flexible	✓	✓	135		
		911 11511806	Schleppflex Thick Cable 1 × 2 × AWG 15 + 1 × 2 × AWG 18 violet	flexible	✓	✓	135		
		911 12212409	Schleppflex Thin Cable 1 × 2 × AWG 22 + 1 × 2 × AWG 24 yellow	flexible	✓	✓	135		
EIB		425 0800210	BUS-EIB J-Y(St)Yv 2 × 2 × 0,8 mm	fixed installation			132		
		480 0800210	BUS-EIB J-H(St)Hv 2 × 2 × 0,8 mm halogen-free	fixed installation			132		
DESINA [®] Hybrid-Bus	DESINA [®]	93140152980	BUS-Schleppflex Hybrid-PUR 4 G 1,5 + 2 P980/1000	flexible			133		
		93150152980	BUS-Schleppflex Hybrid-PUR 5 G 1,5 + 2 P980/1000	flexible			133		
		93140252980	BUS-Schleppflex Hybrid-PUR 4 G 2,5 + 2 P980/1000	flexible			133		
		93150252980	BUS-Schleppflex Hybrid-PUR 5 G 2,5 + 2 P980/1000	flexible			133		
ETHERBUS TCP/IP up to 100 Mbit/s CAT 5	EN 50173	471 2402 15310	Ether-BUS-C (2 × 2 × AWG 24/1)	fixed installation			136		
		471 2402 25310	Ether-BUS-C (2 × 2 × AWG 24/1)	fixed installation			136		
		471 2402 35310	Ether-BUS-C (2 × 2 × AWG 24/1)	fixed installation			136		
		471 2404 15310	Ether-BUS-C (4 × 2 × AWG 24/1)	fixed installation			136		
		471 2404 25310	Ether-BUS-C (4 × 2 × AWG 24/1)	fixed installation			136		
		471 2404 35310	Ether-BUS-C (4 × 2 × AWG 24/1)	fixed installation			136		
		471 2602 15310	Ether-BUS-C (2 × 2 × AWG 26/7)	fixed installation			136		
		471 2604 15310	Ether-BUS-C (4 × 2 × AWG 26/7)	fixed installation			136		
		471 2402 45310	Schleppflex-Ether-BUS-C (2 × 2 × AWG 24/19)	flexible			137		
		471 2404 45310	Schleppflex-Ether-BUS-C (4 × 2 × AWG 24/19)	flexible			137		
		471 2604 45310	Schleppflex-Ether-BUS-C (4 × 2 × AWG 26/19)	flexible	✓	✓	137		
		PROFINet [®]		471 2202 45310	Schleppflex-Ether-BUS-C (2 × 2 × AWG 22/7)	flexible	✓	✓	137

Trademark of:

INTERBUS[®]
VariNet-P[®]
DESINA[®]
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DeviceNet™ O
Modulink P[®]
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Klöckner Moeller GmbH
DVA (Open DeviceNet Vendors Association)
Weidmüller GmbH & Co.
PNO (PROFIBUS Nutzerorganisation)

CC-BUS PVC-C-93

CC-BUS H-C-93



Fieldbus cable, shielded  and 

ConCab kabel Mainhardt BUS-C-93 DESINA

CC-BUS PVC-C-93 is used for linking industrial fieldbus systems in automation and communication technology. CC-Bus cables meet high industrial standards, such as INTERBUS-S®, CAN, PROFIBUS and SINEC® L2.

The cables between bus-users are an important intermediary link and set high standards for exact data transmission.

Construction

(1 × 2 × 0,22 mm²) to (3 × 2 × 0,22 mm²)

Bare, 7-strands of copper wire, PP core insulation.

Core colours acc. to DIN 47100, cores twisted in pairs and laid in layers, 2 pair version twisted to star quad, special foil wrapping, tinned copper shield. PVC-based outer sheath, resistant to oil and cooling liquids, flame retardant and self-extinguishing acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

(3 × 2 × 0,22 mm² + 3 × 1 mm²)Yv

0,22 mm²: bare, 7-strands of copper wires, PP core insulation, core colours acc. to DIN 47100, cores twisted in pairs.

1 mm²: bare strands of copper wires, TPE core insulation, core colours rd, bu, gnye. Pairs and cores twisted together in layers, fleece, tinned copper shield. PVC outer sheath, resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), UV-resistant, for in- and outdoor use and for direct burial.

(1 × 2 × 0,64 mm²)

Bare solid copper wire, cellular-PE core insulation, core colours green and red, cores twisted in pairs, aluminium foil, overall tinned copper shield. PVC-based outer sheath, resistant to oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

(1 × 2 × 0,64 mm²) FAST CONNECT:

Construction as standard 1x2x0,64 but with additional PVC-based inner sheath for easy strip.

(1 × 2 × 0,64 mm²) Halogen-free

Bare solid copper wire, cellular-PE core insulation, core colours green and red, cores twisted in pairs, aluminium foil, overall tinned copper shield. Halogen-free outer sheath, resistant to oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-3).

(1 × 2 × 0,64 mm²) Yv

Bare solid copper wire, cellular-PE core insulation, core colours green and red, cores twisted in pairs, aluminium foil, overall tinned copper shield. PVC-based outer sheath, resistant to oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-3).














UV-resistant, for in- and outdoor use and for direct burial.

(1 × 2 × 0,64 mm²) + 3 × 1 mm²

0,64 mm²: bare solid copper wire, cellular-PE core insulation, core colours green and red, cores twisted together in pairs, aluminium foil, overall tinned copper shield.

1 mm²: bare, fine strands of copper wire, PVC core insulation, core colours bk, bu, gnye, cores and pairs twisted together, fleece. PVC-based outer sheath resistant to oil and cooling liquid, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

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Part-No.	No. of cores + cross-section/ diameter	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
93 022 016	(1 × 2 × 0,22)  and 	violet*	18,0	5,3	35
93 022 026	(2 × 2 × 0,22)  and 	violet*	24,0	5,6	42
93 022 036	(3 × 2 × 0,22)  and 	violet*	37,0	7,5	78
93 022 03001	(3 × 2 × 0,22 + 3 × 1) Yv  and 	black	67,5	9,5	92
93 064 0161	SINEC® L2 (1 × 2 × 0,64Ø) 	violet*	25,0	7,6	62
93 064 0163	SINEC® L2 (1 × 2 × 0,64Ø) halogen-free 	violet*	25,0	7,8	62
93 064 0164	SINEC® L2 (1 × 2 × 0,64Ø) FAST CONNECT 	violet*	25,0	8,0	62
93 064 0102	SINEC® L2 (1 × 2 × 0,64Ø) Yv 	black	25,0	10,0	120
93 064 01310	SINEC® L2 (1 × 2 × 0,64Ø) + 3 × 1 	violet*	49,0	9,9	88

* Colour acc. to *DESINA*® standard

Technical data

Rated voltage:
300 V, not for power applications at 0,22 mm², 0,64 mmØ

Test voltage:
0,22 mm², 0,64 mmØ: 1000 V
1 mm²: 2500 V

Loop resistant:
0,22 mm²: max. 120 Ohm/km
1 mm²: max. 40 Ohm/km
0,64 mmØ: max. 110 Ohm/km

Operating capacity at 800 Hz:
0,22 mm²: core/core max. 60 nF/km
0,64 mmØ: core/core max. 30 nF/km

Impedance:
0,22 mm²: 100 -120 Ohm
0,64 mmØ: 150 Ohm

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
15 × cable diameter

Approvals:
cUL: Style 2464, 2919, 2571, 20963



Special needs, different dimensions or different outer sheath colours upon request.

ConCab kabel connects the world



CC-BUS-Schleppflex® PUR-C-94

Superflexible halogen-free fieldbus cable, shielded



ConCab kabel Mainhardt BUS-Schleppflex PUR-C-94 DESINA

CC-BUS PUR-C-94 is used for linking industrial fieldbus systems in automation and communication technology. CC-Bus Cables meet high industrial standards, such as INTERBUS-S®, CAN, PROFIBUS and SINEC® L2. The cables between bus-users are an important intermediary link and set high standards for exact data transmission. The special construction also allows the BUS-cable to be used for power supply chains and automatic handling equipment.

Construction

(1 × 2 × 0,25 mm²) to (3 × 2 × 0,25 mm²)

Superfine strands of bare copper wires, PP core insulation, core colours acc. to DIN 47100, cores twisted in pairs and layed in layers, bandage, tinned copper shield. PUR-based outer sheath, non-adhesive and resistant to hydrolysis and microbes, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2- and IEC 60332-1).

(3 × 2 × 0,25 mm² + 3 × 1 mm²)

Superfine strands of bare copper wires.

0,25 mm²: PP core insulation.

1 mm²: Polyester (TPE) core insulation.

Core colours 0,25 mm²: acc. to DIN 47100.

Core colours 1 mm²: rd, bu, gnye. Cores and pairs twisted in layers, fleece, tinned copper shield, fleece, PUR-outer sheath, non-adhesive, resistant to hydrolysis and microbes, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

(1 × 2 × 0,64 mm²)

Superfine strands of bare copper wires, cellular-PE core insulation, core colours gn and rd, cores twisted to pairs, aluminium foil, overall tinned copper shield.

PUR-based outer sheath, non-adhesive, resistant to hydrolysis and microbes (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).












(1 × 2 × 0,64 mm²) FAST CONNECT

Construction as standard 1x2x0,64 but with additional PVC-based inner sheath for easy strip.

(1 × 2 × 0,64 mm²) + 3 × 1 mm²

0,64 mm²: superfine strands of bare copper wires, cellular-PE core insulation, core colours green and red. Cores and pairs twisted together, aluminium foil, tinned copper shield.

1 mm²: bare, superfine strands of copper wires, polyester (TPE) core insulation, core colours bk, bu, gnye. Cores and pairs twisted together in layers, fleece. PUR-based outer sheath, non-adhesive, resistant to hydrolysis and microbes, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Part-No.	No. of cores + cross-section/ diameter	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
94 025 016	(1 × 2 × 0,25)  and 	violet	18,0	5,6	41
94 025 026	(2 × 2 × 0,25)  and 	violet	34,8	8,0	72
94 025 036	(3 × 2 × 0,25)  and 	violet	39,0	8,2	81
94 025 03601	(3 × 2 × 0,25 + 3 × 1)  and 	violet	69,5	9,3	92
94 024 016	SINEC® L2 (1 × 2 × 0,64Ø) 	violet	28,0	8,3	78
94 024 0164	SINEC® L2 (1 × 2 × 0,64Ø) FAST CONNECT 	violet	28,0	8,3	78
94 064 01310	SINEC® L2 (1 × 2 × 0,64Ø) + 3 × 1 	violet	55,0	11,0	98

Technical data

Rated voltage:
300 V, not for power applications at 0,25 mm², 0,64 mmØ

Test voltage:
0,25 mm², 0,64 mmØ: 1000 V
1 mm²: 2500 V

Conductor stranding:
superfine copper strands acc. to VDE 0295, class 6

Loop resistance:
0,25 mm²: max. 185 Ohm/km
0,64 mmØ: max. 133 Ohm/km

Operating capacity at 800 Hz:
0,25 mm²: core/core max. 60 nF/km
0,64 mmØ: core/core max. 30 nF/km

Impedance:
0,25 mm²: 100 -120 Ohm
0,64 mmØ: 150 Ohm

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -30°C to +70°C

Bending radius:
fixed installation: 8 × cable diameter
flexible application: 15 × cable diameter

Approvals:
cUL: Style 20549, 20910



Special needs, different dimensions or different outer sheath colours upon request.
For installation instructions please see page 498.

CC-BUS CAN-PVC-C-93



CAN-Bus, shielded



ConCab kabel Mainhardt CAN-BUS C-93 DESINA

CC-BUS CAN-PVC-C-93 shielded is used for linking industrial fieldbus systems in automation and communication technology. CC-Bus cables meet high industrial standards, such as INTERBUS-S®, CAN and PROFIBUS. The cables between bus-users are an important intermediary link and set the high standards for exact data transmission. CC-BUS-CAN-PVC-C-93 (Controller Area Network) is extensively used for industrial applications for connecting indoor networks. The max. bitrate is up to 1MBit/s. With increasing segment lengths a larger cross-sections should be used.

Construction

(1 × 2 × 0,22 mm²) to (2 × 2 × 0,75 mm²)

Bare, fine of copper wires, PP resp. cellular PE core insulation, core colours acc. to DIN 47100, cores twisted in pairs, 2 pairs laid in a star quad, foil wrapping, tinned copper shield, PVC-based outer sheath, resistant to oil and coolants, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour *DESINA*® violet.

Technical data

Rated voltage:
300 V, not for power applications

Test voltage:
1000 V

Impedance:
100 - 120 Ohm

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
15 × cable diameter

ISO 11898 recommends the following:

Segment length	cross-section	Max. bitrate
up to 40 m	0,22 mm ² up to 0,34 mm ²	1 MBit/s at 40 m
40 - 300 m	0,34 mm ² up to 0,6 mm ²	> 500 kBit/s at 100 m
300 - 600 m	0,50 mm ² up to 0,6 mm ²	> 100 kBit/s at 500 m
600 - 1000 m	0,75 mm ² up to 0,8 mm ²	> 50 kBit/s at 1000 m

Approvals:
ISO 11898
cUL: Style 2464

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
93 022 016	(1 × 2 × 0,22)	18,0	5,3	35
93 022 026	(2 × 2 × 0,22)	24,0	5,6	42
93 034 016	(1 × 2 × 0,34)	21,8	6,2	53
93 034 026	(2 × 2 × 0,34)	26,5	6,4	68
93 050 016	(1 × 2 × 0,50)	27,0	7,0	73
93 050 026	(2 × 2 × 0,50)	38,0	7,2	80
93 075 016	(1 × 2 × 0,75)	35,0	8,5	103
93 075 026	(2 × 2 × 0,75)	55,0	8,6	115



CC-BUS-Schleppflex® CAN-PUR-C-94



Superflexible halogen-free CAN-Bus cable, shielded



ConCab kabel Mainhardt Schleppflex CAN-BUS PUR-C-94 DESINA

CC-BUS Schleppflex CAN-PUR-C-94 shielded is used for linking industrial fieldbus systems in automation and communication technology. CC-Bus cables meet high industrial standards, such as INTERBUS-S®, CAN and PROFIBUS. The cables between bus-users are an important intermediary link and set-high standards for exact data transmission. CC-BUS Schleppflex **CAN-PUR-C-94** (Controller Area Network) is used industrially in power supply chains. The max. bitrate is up to 1MBit/s. With increasing segment length larger cross sections should be used.

Construction

(1 × 2 × 0,25 mm²) to (2 × 2 × 0,5 mm²)
 Superfine strands of bare copper wire, PP resp. cellular PE core insulation, core colours acc. to DIN 47100, cores twisted in pairs, two pairs laid in star quad, bandage, overall tinned copper shield, PUR-based outer sheath, non-adhesive, resistant to hydrolysis and microbes, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour *DESINA*® -violet.

Technical data

Rated voltage:
300 V, not for power applications

Test voltage:
1000 V

Impedance:
100 - 120 Ohm









Temperature range:
 fixed installation: -40°C up to +80°C
 flexible application: -30°C up to +70°C

Bending radius:
15 × cable diameter

ISO 11898 recommends the following:

Segment length	Cross-section	Max. bitrate
up to 40 m	0,22 mm ² up to 0,34 mm ²	1 MBit/s at 40 m
40 - 300 m	0,34 mm ² up to 0,6 mm ²	> 500 kBit/s at 100 m
300 - 600 m	0,50 mm ² up to 0,6 mm ²	> 100 kBit/s at 500 m
600 - 1000 m	0,75 mm ² up to 0,8 mm ²	> 50 kBit/s at 1000 m

Approvals:
 ISO 11898
 cUL: Style 20963, 20549

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
94 025 016	(1 × 2 × 0,25)  and 	18,0	5,6	41
94 025 026	(2 × 2 × 0,25)  and 	34,8	8,0	60
94 034 016	(1 × 2 × 0,34) 	20,0	6,2	53
94 034 026	(2 × 2 × 0,34) 	26,0	5,9	60
94 050 016	(1 × 2 × 0,50) 	27,0	7,0	67
94 050 026	(2 × 2 × 0,50) 	40,0	7,0	75



Special needs, different dimensions or different outer sheath colours upon request.
 For installation instructions please see page 498.

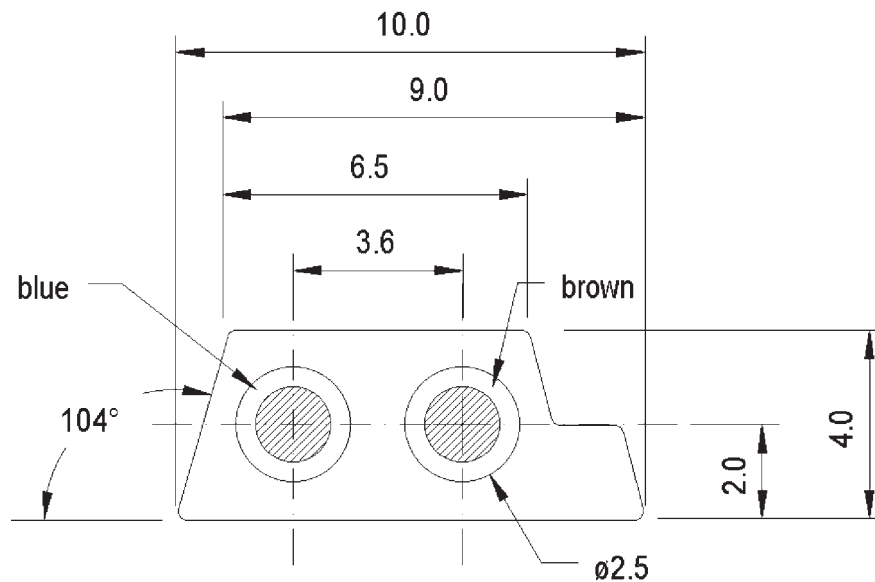
ConCab kabel connects the world

CC-BUS AS-Interface

AS-I Fieldbus cable

ConCab kabel Mainhardt 930

ConCab kabel Mainhardt 930



The Sensor-Actuator-Interface-Cable (AS-I) is used in network systems for the lowest field level of automation and communication technology. This flat cable consists of two unshielded cores which transmit the data and energy. The contact is made by special technology by piercing through the outer sheath and core insulation within the AS-I modules.

Construction

PVC/TPE

Fine strands of tinned copper wires, PVC core insulation, core colours blue and brown.
Polyester (TPE) outer sheath.

PP/PUR Halogen free

Fine strands of bare copper wires, PP core insulation, core colours blue and brown,
PUR outer sheath.

PVC/PVC

Fine strands of tinned copper wires, PVC core insulation, core colours blue and brown.
PVC outer sheath.

Rubber EPDM

Fine strands of bare copper wires, rubber based core insulation, core colours blue and brown.
EPDM outer sheath.

Technical data

Rated voltage:
300 V


Test voltage:
2000 V

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation : -40°C to +80°C
flexible application : -20°C to +80°C

Bending radius:
10 × cable thickness

ConCab kabel connects the world

Part-No.	No. of cores + cross-section	Outer sheath colour	Copper weight kg/km	Weight kg/km
PVC/TPE for power supply chains				
930 21510	CC-Bus AS-I 2 × 1,5	black	28,8	55
930 21519	CC-Bus AS-I 2 × 1,5	yellow	28,8	55
PP/PUR Halogen-free, for power supply chains				
930 5215 10	CC-Bus AS-I 2 × 1,5	black	28,8	67
930 5215 19	CC-Bus AS-I 2 × 1,5	yellow	28,8	67
PVC/PVC 				
930 2215 10	CC-Bus AS-I 2 × 1,5	black	28,8	55
930 2215 19	CC-Bus AS-I 2 × 1,5	yellow	28,8	55
Rubber EPDM				
930 7215 10	CC-Bus AS-I 2 × 1,5	black	28,8	55
930 7215 19	CC-Bus AS-I 2 × 1,5	yellow	28,8	55



For installation instructions please see page 498.

ConCab kabel connects the world

CC-BUS-EIB J-Y(St)Yv Bd-425

Halogen-free CC-BUS-EIB J-H(St)Hv Bd-480



European Installation-Bus cable



ConCab kabel Mainhardt BUS-EIB

CC-BUS-EIB-425 and -480 cable meet the requirements of the “European Installation-Bus”-standard (EIB). These Bus-cables are used for data transmission in building management control systems for power and low voltage applications. They can be used in dry, wet or damp areas either inside or outside, but not laid in the ground.

Construction

Solid bare copper conductor. For core insulation, please see table. Core colours:
 group 1: a-core red, b-core black,
 group 2: a-core white, b-core yellow.
 4 cores laid in star quad,
 copper drain wire, aluminium foil.
 Outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 332-1, resp. IEC 60332-3).
 Colour green.

Technical data

Rated voltage:
250 V, not for power applications

Test voltage:
core against water bath: 4000 V

Conductor stranding:
bare solid conductor acc. to VDE 0295, class 1

Loop resistance:
≤ 130 Ohm/km

Core insulation and outer sheath:
 J-Y(St)Hv: PVC
 J-H(St)Hv: Halogen-free polymere mixture

Insulation resistance:
min. 100 MOhm × km

Capacity at 800 Hz:
max. 100 nF/km

Attenuation at 800 Hz:
approx. 1,2 dB/km

Temperature range:
fixed installation: -30°C to + 70°C

Bending radius:
one-time bending without tensile force:
3,5 × cable diameter
multiple bending under tensile force or during transport: 10 × cable diameter

Approvals:
acc. to VDE 0815 and EIB

Part-No.	No. of cores + diameter	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
425 08 002 10	J-Y(St)Yv 2 × 2 × 0,8	21	6,8	64
480 08 002 10	J-H(St)Hv 2 × 2 × 0,8 halogen-free	21	6,8	70

ConCab kabel connects the world



CC-BUS-Schleppflex® Hybrid-PUR 931

High flexible fieldbus composite cable with POF CE

ConCab kabel Mainhardt BUS-PUR-931 DESINA 4 G 1,5 + 2 P 980/1000 CE

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm \times km

Fibre type:
POF-step index fibre
core diameter: 980 μm
sheath diameter: 1000 μm

Attenuation:
max. 200 dB/km at 650 nm

Temperature range:
fixed installation: -30°C to +70°C
flexible application: -5°C to +70°C

Bending radius:
8 \times cable diameter

Approvals:
acc. to DESINA® specification



CC-Bus-Schleppflex Hybrid cable is used for the connection of DESINA®-conform automatic equipments and machines. 4 respectively 5 copper cores are used for the power supply. The plastic optical fibre (POF) cores secure the exact transmission of digital control signals without any electromagnetic disturbances. The special construction of CC-Bus-Schleppflex Hybrid enables the cable to be used in mobile power supply chains and automatic handling equipment.

Construction

Superfine strands of bare copper wires, PVC-based core insulation, cores are black with consecutive white numbering and a green/yellow protective conductor. Cores and POF-Fibres are laid around a central filling core, fleece, aramid strength members. PUR-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour DESINA®-violet (RAL 4001).

Part-No.	No. of cores + cross-section/fibre type	Max. tensile strength N	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
931 4015 2980*	4 G 1,5 + 2P980/1000	3000	58,0	10,2	136
931 5015 2980	5 G 1,5 + 2P980/1000	3000	72,0	11,0	170
931 4025 2980*	4 G 2,5 + 2P980/1000	3000	96,0	12,3	206
931 5025 2980	5 G 2,5 + 2P980/1000	3000	129,0	13,2	256

*DESINA® conforming

Special needs, different dimensions or different outer sheath colours upon request.
For installation instruction please see page 498.

ConCab kabel connects the world

CC-BUS PVC-C-910



Fieldbus cable for DeviceNet™, shielded
(UL) and 



Technical Data

Rated voltage:
300 V

Test voltage:
1500 V

Conductor stranding:

power cores:
Thick cable: AWG 15 (1,5 mm²)
Thin cable: AWG 22 (0,34 mm²)
data cores:
Thick cable: AWG 18 (1,0 mm²)
Thin cable: AWG 24 (0,25 mm²)

Loop resistance:
data pair: 100-120 Ohm

Temperature range:
fixed installation: -20°C to +70°C
flexible application: 0°C to +70°C

Bending radius:
fixed installation: 7,5 × core diameter
flexible application: 15 × core diameter

Approvals:
*(UL) CM or Style 2570, CSA: AWM I/II A/B
**(UL) CM or Style 2571, CSA: AWM I/II A/B
***cUL: CMX

The CC-BUS PVC-C-910 shielded, used for DeviceNet™ installations, is especially known in Anglo-American markets. This bus-system consists of one pair of power cores and one pair of data transmission cores on a CAN basis. The trunk cable is used as the backbone cable. The Thin cable connects sensors and actors to the backbone Thick cable.

Construction

Fine strands of tinned copper wires.
Data transmission cores: Cellular-PE core insulation, core colours are blue and white.
Power cores: Polyester (TPE) core insulation, core colours are red and black.
Data and power cores are each twisted into a pair, tinned drain wire, each pair shielded in aluminium foil, overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1/ EN 50265-2-1 and IEC 60332-1).

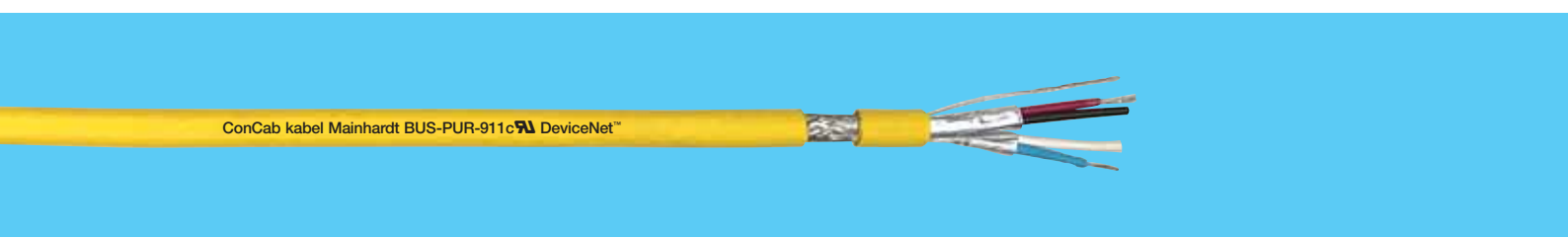
Part-No.	Type	No. of cores + AWG	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Gewicht kg/km
910 115 118 05	Thick Cable	1×2×AWG15 + 1×2×AWG18*	grey	71,0	12,2	21
910 122 124 05	Thin Cable	1×2×AWG22 + 1×2×AWG24**	grey	27,8	7,0	65
910 115 118 06	Thick Cable	1×2×AWG15 + 1×2×AWG18*	violet	71,0	12,2	210
910 122 124 06	Thin Cable	1×2×AWG22 + 1×2×AWG24**	violet	27,8	7,0	65
912 122 124 06	Thin Cable halogen-free****	1 × 2 × AWG22 + 1 × 2 × AGW24***	violet	27,1	8,0	64

****halogen-free PUR-outer sheath

ConCab kabel connects the world

CC-BUS-Schleppflex® PUR-C-911

High flexible halogen-free fieldbus cable for DeviceNet™, shielded



ConCab kabel Mainhardt BUS-PUR-911c UL DeviceNet™

Technical data

Rated voltage:
300 V

Test voltage:
1500 V

Conductor stranding:

power cores:

Thick cable: AWG 15 (1,5 mm²)

Thin cable: AWG 22 (0,34 mm²)

data cores:

Thick cable: AWG 18 (1,0 mm²)

Thin cable: AWG 24 (0,25 mm²)

Loop resistance:

data pair: 100-120 Ohm

Temperature range:

fixed installation: -20°C to +70°C

flexible application: 0°C to +70°C

Bending radius:

fixed installation: 7,5 × core diameter

flexible application: 15 × core diameter

Approvals:

*cUL: Style 20910

**cUL: Style 20233

The CC-BUS-Schleppflex-PUR-C-911 shielded UL/CSA is used for DeviceNet™ installations, especially known in Anglo-American markets. This bus-system consists of one pair of power cores and one pair of data transmission cores on a CAN basis. The Thick cable is used as the backbone cable. The Thin cable connects sensors and actors to the backbone Thick cable. The PUR outer sheath enables the cable to be used in mobile power supply chains and automatic handling equipment.

Construction

Superfine strands of tinned copper wires.

Data transmission cores: Core insulation cellular PE, core colours are blue and white.

Power cores: Core insulation polyester (TPE), core colours are red and black.

Data and power cores are each twisted into a pair, tinned drain wire, each pair shielded in aluminium foil, overall tinned copper shield.

PUR outer sheath, flame retardant and self-extinguishing

(acc. to VDE 0482, part 265-2-1/ EN 50265-2-1 and IEC 60332-1).

Part-No.	Type	No. of cores + AWG	Outer sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
911 115 118 09	Schleppflex-Thick Cable	1×2×AWG 15 + 1×2×AWG 18*	yellow	69,5	12,2	209
911 122 124 09	Schleppflex-Thin Cable	1×2×AWG 22 + 1×2×AWG 24**	yellow	27,1	7,0	64
911 115 118 06	Schleppflex-Thick Cable	1×2×AWG 15 + 1×2×AWG 18*	violet	69,5	12,2	209
911 122 124 06	Schleppflex-Thin Cable	1×2×AWG 22 + 1×2×AWG 24**	violet	27,1	7,0	64

Special needs, different dimensions or different outer sheath upon request.
For installation instructions please see page 498.

ConCab kabel connects the world

CC-Ether-BUS-C-(TP)-471

Halogen-free ETHERNET-fieldbus cable, shielded CAT 5/100 MHz



ConCab kabel Mainhardt 471 4 x 2 x AWG 24 DESINA CE



CC-Ether-BUS-C-(TP)-471 is used for wiring industrial fieldbus systems in automation and communication technology and meets high industrial standards, such as INTERBUS-S®, CAN, PROFIBUS and SINECL2®.

The cables between bus-users are an important intermediary link and set high standards for exact data transmission.

CC-Ether-Bus-C-(TP)-471 shielded is designed as a TCP/IP-Fieldbus cable for ETHERNET-Networks applications in rough industrial environments and for transmission rates of up to CAT 5/100 MHz. Solid conductor is used for permanent installation whereas 7-wire conductor is used for flexible installation.

Construction

Bare solid conductor or 7-wires copper conductor. Cellular-PE core insulation, core colours whbu/bu, whog/og.

Added colours for 4-paired types: whgn/gn, whbn/bn. Cores twisted in pairs or quads and pairs laid in layers, aluminium foil shield, overall tinned copper shield. Outer sheath as stated below. Colour green (RAL 6018).

Technical data

Rated voltage:
150 V, not for power applications

Test voltage:
Core/core: 500 V
Core/shield: 800 V

Conductor stranding:
AWG 24: solid wire, 0,52 mmØ
AWG 26: 7 wires, 0,15 mmØ

Loop resistance:
AWG 24: max. 190 Ohm/km
AWG 26: max. 265 Ohm/km

Impedance:
100 Ohm ± 15 Ohm

Temperature range:
fixed installation: -30°C to +70°C
flexible application: -5°C to +50°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 10 × cable diameter



Approvals:
acc. to EN 50173

Part-No.	Type	No. of cores + AWG	Outer sheath material	Outer diameter approx. mm	Weight kg/km
471 2402 15310	SF/UTP	(2 × 2 × AWG 24/1)	H	5,8	43
471 2402 25310	SF/UTP	(2 × 2 × AWG 24/1)	PUR	5,8	49
471 2402 35310	SF/UTP	(2 × 2 × AWG 24/1)	H+PUR	7,7	64
471 2404 15310	SF/UTP	(4 × 2 × AWG 24/1)	H	6,5	56
471 2404 25310	SF/UTP	(4 × 2 × AWG 24/1)	PUR	6,5	57
471 2404 35310	SF/UTP	(4 × 2 × AWG 24/1)	H+PUR	8,0	82
471 2602 15310	Patchcable SF/UTP	(2 × 2 × AWG 26/7)	H	5,6	42
471 2604 15310	Patchcable SF/UTP	(4 × 2 × AWG 26/7)	H	5,7	44



CC-Schleppflex®-Ether-BUS-C-(TP)-471

High flexible halogen-free ETHERNET-fieldbus cable, shielded
CAT 5/100 MHz



ConCab kabel Mainhardt - 471 4 x 2 x AWG 24 DESINA CE



CC-Ether-BUS-C-(TP)-471 shielded is used for wiring industrial fieldbus systems in automation and communication technology and meets high industrial standards, such as INTERBUS-S®, CAN, PROFIBUS and SINECL2®. The cables between bus-users are an important intermediary link and set high standards for exact data transmission.

Technical data

CC-Schleppflex-Ether-Bus-C-(TP)-471 highly flexible can be used in mobile power supply chain and as a TCP/IP-Fieldbus cable for ETHERNET-Networks for applications in rough industrial environments and for transmission rates of up to CAT 5/100 MHz.

Rated voltage:
150 V, not for power applications

Test voltage:
core/core: 500 V
core/shield: 800 V

Conductor stranding:

AWG 22: 7-wires 0,25 mm \varnothing
AWG 24: 19-wires 0,14 mm \varnothing
AWG 26: 19-wires 0,10 mm \varnothing

Loop resistance:

AWG 22: max. 120 Ohm/km
AWG 24: max. 200 Ohm/km
AWG 26: max. 250 Ohm/km

Impedance:

100 Ohm \pm 15 Ohm

Temperature range:

fixed installation: -30°C to +70°C
flexible application: -5°C to +50°C

Bending radius:

fixed installation: 5 \times cable diameter
flexible application: 10 \times cable diameter

Construction

Bare 7- or 19-wires copper conductor, PP core insulation, core colours whbu/bu, whog/og. Added colours for 4 paired types: whgn/gn, whbn/bn. Cores twisted in pairs or quads and pairs laid in layers, aluminium foil shield, overall tinned copper shield. PUR outer sheath. Colour green (RAL 6018).



Approvals:
acc. to EN 50173

Part-No.	Type	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
471 2402 45310	Schleppflex SF/UTP	(2 \times 2 \times AWG 24/19)	25,0	6,2	65
471 2404 45310	Schleppflex SF/UTP	(4 \times 2 \times AWG 24/19)	45,0	8,0	82
471 2604 45310	Schleppflex Patchcable SF/UTP	(4 \times 2 \times AWG 26/19)	29,7	6,9	60
471 2202 45310	Schleppflex SF/UTP PROFInet®	(2 \times 2 \times AWG 22/19)	31,3	6,5	61
		FAST CONNECT			

Special needs, different dimensions or different outer sheath upon request.
For installation instructions please see page 498.

ConCab kabel connects the world



CC-BUS PA-C-95 PROFIBUS PA

Fieldbus cable for application in explosive areas

ConCab kabel Mainhardt BUS-PA-95

CC-BUS PA-C-95 PROFIBUS PA is used for linking industrial fieldbus systems in automation and communication technology. The CC-Bus cable meets high industrial standards, such as INTERBUS-S®, CAN, PROFIBUS and SINECL2®. The cables between bus-users are an important intermediary link and set high standards for exact data transmission. CC-Bus PA-C-95 has been developed specifically for process-automation (PA) in explosive areas.



Construction

Solid conductor or 19-wires of bare copper wire, cellular-PE core insulation, core colours red and green, cores twisted into a pair, foil, aluminium foil shield, overall tinned copper shield. PVC-based outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332.1). Colour blue (for intrinsically safe power circuits) or colour black.

Technical data

Rated voltage:
250 V, not for power applications

Test voltage:
1500 V

Loop resistance:
max. 44 Ohm/km

Impedance:
at 31,25 kHz: 80-120 Ohm

Temperature range:
-30°C to +60°C

Bending radius:
10 × cable diameter

Approvals:
DIN 19245, EN 50170

Part-No.	No. of cores + AWG	Sheath colour	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
95 181 11	1 × 2 × AWG 18/1	blue	34,0	7,8	65
95 189 11	1 × 2 × AWG 18/19	blue	34,0	7,8	65
95 189 114	1 × 2 × AWG 18/19 FAST CONNECT	blue	34,0	7,8	74
95 181 10	1 × 2 × AWG 18/1	black	34,0	7,8	65
95 189 10	1 × 2 × AWG 18/19	black	34,0	7,8	65
95 189 104	1 × 2 × AWG 18/19 FAST CONNECT	black	34,0	7,8	74



PVC-control-cable



CC-control cable-JZ-110

Numbered black cores

Conforms to the EC low voltage guideline 73/23/EEC CE



The flexible CC-control cable PVC-JZ-110 is suitable as a guiding, controlling and measuring cable especially when free unrestricted movement is required. It can be used in the construction of machine tools, plant and appliances, as well as in heating, air conditioning and ventilation technology and other spheres of application in electrical units. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation, cores black with consecutive white numbering. 3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $4 \times$ cable diameter
flexible application: $15 \times$ cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
110 0005 002	2 X 0,5	9,6	5,0	35	110 0007 010	10 G 0,75	72,0	9,9	155
110 0005 003	3 G 0,5	14,4	5,3	42	110 0007 011	11 G 0,75	79,2	10,2	165
112 0005 003	3 X 0,5	witho. gnye	5,3	42	110 0007 012	12 G 0,75	86,0	10,2	172
110 0005 004	4 G 0,5	19,2	5,8	50	112 0007 012	12 X 0,75	witho. gnye	10,2	172
112 0005 004	4 X 0,5	witho. gnye	5,8	50	110 0007 015	15 G 0,75	108,0	11,2	206
110 0005 005	5 G 0,5	24,0	6,5	64	110 0007 018	18 G 0,75	130,0	12,0	246
112 0005 005	5 X 0,5	witho. gnye	6,5	64	110 0007 021	21 G 0,75	151,0	13,3	291
110 0005 006	6 G 0,5	28,8	7,0	79	110 0007 025	25 G 0,75	180,0	14,0	332
110 0005 007	7 G 0,5	34,0	7,0	82	110 0007 034	34 G 0,75	245,0	16,2	448
112 0005 007	7 X 0,5	witho. gnye	7,0	82	110 0007 041	41 G 0,75	295,0	18,0	554
110 0005 008	8 G 0,5	38,4	8,1	101	110 0007 042	42 G 0,75	302,0	18,0	559
110 0005 010	10 G 0,5	47,6	9,2	126	110 0007 050	50 G 0,75	360,0	19,6	655
110 0005 012	12 G 0,5	58,0	9,4	136	110 0007 061	61 G 0,75	439,0	22,1	804
112 0005 012	12 X 0,5	witho. gnye	9,4	136	110 0007 065	65 G 0,75	468,0	23,0	837
110 0005 014	14 G 0,5	67,0	9,7	164	110 0007 080	80 G 0,75	576,0	24,3	1018
110 0005 016	16 G 0,5	77,0	10,4	185	110 0007 100	100 G 0,75	720,0	27,8	1300
110 0005 018	18 G 0,5	86,0	11,5	201					
110 0005 021	21 G 0,5	101,0	12,3	246	110 0010 002	2 X 1,0	19,2	5,9	53
110 0005 025	25 G 0,5	120,0	13,3	263	110 0010 003	3 G 1,0	29,0	6,2	63
110 0005 030	30 G 0,5	144,0	14,0	334	112 0010 003	3 X 1,0	witho. gnye	6,2	63
110 0005 034	34 G 0,5	163,0	14,8	366	110 0010 004	4 G 1,0	38,0	6,7	76
110 0005 035	35 G 0,5	168,0	15,4	380	112 0010 004	4 X 1,0	witho. gnye	6,7	76
110 0005 040	40 G 0,5	192,0	16,5	441	110 0010 005	5 G 1,0	48,0	7,3	94
110 0005 050	50 G 0,5	240,0	18,2	566	112 0010 005	5 X 1,0	witho. gnye	7,3	94
110 0005 052	52 G 0,5	250,0	18,2	590	110 0010 006	6 G 1,0	58,0	8,2	124
110 0005 061	61 G 0,5	293,0	20,3	608	110 0010 007	7 G 1,0	67,0	8,2	133
110 0005 065	65 G 0,5	312,0	20,9	673	112 0010 007	7 X 1,0	witho. gnye	8,2	133
110 0005 080	80 G 0,5	384,0	22,6	790	110 0010 008	8 G 1,0	77,0	9,7	158
110 0005 100	100 G 0,5	480,0	25,2	960	110 0010 009	9 G 1,0	86,4	10,4	181
					110 0010 010	10 G 1,0	96,0	10,5	187
110 0007 002	2 X 0,75	14,4	5,6	46	110 0010 012	12 G 1,0	115,0	10,6	202
110 0007 003	3 G 0,75	21,6	5,8	54	112 0010 012	12 X 1,0	witho. gnye	10,6	202
112 0007 003	3 X 0,75	witho. gnye	5,8	54	110 0010 014	14 G 1,0	134,0	11,5	236
110 0007 004	4 G 0,75	29,0	6,4	66	110 0010 018	18 G 1,0	173,0	13,0	302
112 0007 004	4 X 0,75	witho. gnye	6,4	66	112 0010 018	18 X 1,0	witho. gnye	13,0	302
110 0007 005	5 G 0,75	36,0	6,9	79	110 0010 020	20 G 1,0	192,0	13,8	339
112 0007 005	5 X 0,75	witho. gnye	6,9	79	110 0010 021	21 G 1,0	202,0	14,4	362
110 0007 006	6 G 0,75	43,2	7,5	98	110 0010 025	25 G 1,0	240,0	14,9	402
110 0007 007	7 G 0,75	50,0	7,5	105	110 0010 034	34 G 1,0	326,0	17,5	549
112 0007 007	7 X 0,75	witho. gnye	7,5	105	110 0010 036	36 G 1,0	346,0	18,0	620
110 0007 008	8 G 0,75	58,0	9,0	131	110 0010 041	41 G 1,0	394,0	19,1	658
112 0007 008	8 X 0,75	witho. gnye	9,0	131	110 0010 042	42 G 1,0	403,0	19,1	664
110 0007 009	9 G 0,75	65,0	9,8	155	110 0010 050	50 G 1,0	480,0	21,0	794
					110 0010 056	56 G 1,0	538,0	23,7	980
					110 0010 061	61 G 1,0	586,0	24,6	954
					110 0010 065	65 G 1,0	624,0	25,9	1006
					110 0010 080	80 G 1,0	768,0	27,6	1245
					110 0010 100	100 G 1,0	960,0	30,1	1600

CC-control cable-JZ-110

Numbered black cores

Conforms to the EC low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
110 0015 002	2 X 1,5	29,0	6,5	67	110 0040 002	2 X 4	76,8	8,9	186
110 0015 003	3 G 1,5	43,0	6,9	82	110 0040 003	3 G 4	115,2	10,1	196
112 0015 003	3 X 1,5	witho. gnye	6,9	82	110 0040 004	4 G 4	154,0	11,0	241
110 0015 004	4 G 1,5	58,0	7,4	100	112 0040 004	4 X 4	witho. gnye	11,0	241
112 0015 004	4 X 1,5	witho. gnye	7,4	100	110 0040 005	5 G 4	192,0	12,3	301
110 0015 005	5 G 1,5	72,0	8,3	122	110 0040 007	7 G 4	269,0	13,6	389
112 0015 005	5 X 1,5	witho. gnye	8,3	122	110 0040 011	11 G 4	422,0	17,6	634
110 0015 006	6 G 1,5	86,0	9,1	150	110 0040 012	12 G 4	461,0	20,2	800
110 0015 007	7 G 1,5	101,0	9,1	159					
112 0015 007	7 X 1,5	witho. gnye	9,1	159	110 0060 003	3 G 6	172,8	11,9	281
110 0015 008	8 G 1,5	115,0	9,1	208	110 0060 004	4 G 6	230,0	13,1	354
110 0015 009	9 G 1,5	130,0	11,3	248	110 0060 005	5 G 6	288,0	14,6	440
110 0015 010	10 G 1,5	144,0	11,7	247	110 0060 007	7 G 6	403,0	16,1	570
110 0015 011	11 G 1,5	158,5	11,7	290					
110 0015 012	12 G 1,5	173,0	12,0	277	110 0100 003	3 G 10	288,0	14,7	451
112 0015 012	12 X 1,5	witho. gnye	12,0	277	110 0100 004	4 G 10	384,0	16,3	573
110 0015 014	14 G 1,5	202,0	12,9	312	110 0100 005	5 G 10	480,0	18,2	711
110 0015 016	16 G 1,5	230,4	13,7	361	110 0100 007	7 G 10	672,0	20,2	930
110 0015 018	18 G 1,5	259,0	14,7	400					
110 0015 021	21 G 1,5	302,0	16,4	487	110 0160 003	3 G 16	461,0	18,3	872
110 0015 025	25 G 1,5	360,0	17,2	539	110 0160 004	4 G 16	614,0	23,0	1066
110 0015 032	32 G 1,5	461,0	17,5	704	112 0160 004	4 X 16	witho. gnye	23,0	1066
110 0015 034	34 G 1,5	490,0	19,7	727	110 0160 005	5 G 16	768,0	25,6	1316
110 0015 041	41 G 1,5	591,0	21,3	895	110 0160 007	7 G 16	1075,0	28,3	1691
110 0015 042	42 G 1,5	605,0	21,5	889					
110 0015 050	50 G 1,5	720,0	23,9	1069	110 0250 003	3 G 25	720,0	23,0	1280
110 0015 061	61 G 1,5	878,0	25,6	1282	110 0250 004	4 G 25	960,0	27,3	1538
110 0015 065	65 G 1,5	936,0	27,0	1372	110 0250 005	5 G 25	1200,0	30,5	1911
110 0015 080	80 G 1,5	1152,0	29,8	1677	110 0250 007	7 G 25	1680,0	34,0	2477
110 0015 100	100 G 1,5	1440,0	36,9	2300					
					110 0350 003	3 G 35	1008,0	27,0	1680
110 0025 002	2 X 2.5	48,0	7,7	98	110 0350 004	4 G 35	1344,0	31,5	2086
110 0025 003	3 G 2.5	72,0	8,3	124	110 0350 005	5 G 35	1680,0	34,7	2542
112 0025 003	3 X 2.5	witho. gnye	8,3	124					
110 0025 004	4 G 2.5	96,0	9,1	154	110 0500 003	3 G 50	1440,0	31,3	2550
110 0025 005	5 G 2.5	120,0	10,2	192	110 0500 004	4 G 50	1920,0	36,7	2960
112 0025 005	5 X 2.5	witho. gnye	10,2	192					
110 0025 007	7 G 2.5	168,0	12,6	247	110 0700 003	3 G 70	2016,0	39,4	3181
110 0025 009	9 G 2.5	216,0	13,6	400	110 0700 004	4 G 70	2688,0	44,3	4204
110 0025 012	12 G 2.5	286,0	15,0	423					
110 0025 014	14 G 2.5	336,0	16,1	490	110 0950 003	3 G 95	2736,0	43,7	4678
110 0025 018	18 G 2.5	432,0	18,1	622	110 0950 004	4 G 95	3648,0	51,5	5618
110 0025 025	25 G 2.5	600,0	21,1	829					
110 0025 034	34 G 2.5	816,0	24,7	1150	110 1200 003	3 G 120	3456,0	47,6	5620
110 0025 050	50 G 2.5	1200,0	30,1	1698	110 1200 004	4 G 120	4608,0	55,5	6824


ConCab kabel connects the world



CC-control cable-JB-111

Coloured cores

Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 111 5x1,5 JB

Die flexible CC-control cable PVC-JB-111 is suitable as a guiding, controlling and measuring cable especially when free unrestricted movement is required. It can be used in the construction of machine tools, plant and appliances, as well as in heating, air conditioning, ventilation technology and other spheres of application in electrical equipment. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone and cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation, up to 5 cores, colours acc. to VDE 0293 308. 6 cores or more acc. to CC-colour code (see technical appendix).
3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $4 \times$ cable diameter
flexible application: $15 \times$ cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

ConCab kabel connects the world

CC-control cable-JB-111

Coloured cores

Conforms to the EC low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
111 0005 002	2 X 0,5	9,6	5,0	35	111 0010 002	2 X 1,0	19,2	5,9	50
111 0005 003	3 G 0,5	14,4	5,3	42	111 0010 003	3 G 1,0	29,0	6,2	70
113 0005 003	3 X 0,5	witho. gnye	5,3	42	113 0010 003	3 X 1,0	witho. gnye	6,2	70
111 0005 004	4 G 0,5	19,2	5,8	50	111 0010 004	4 G 1,0	38,4	6,7	78
113 0005 004	4 X 0,5	witho. gnye	5,8	50	113 0010 004	4 X 1,0	witho. gnye	6,7	78
111 0005 005	5 G 0,5	24,0	6,5	64	111 0010 005	5 G 1,0	48,0	7,3	100
113 0005 005	5 X 0,5	witho. gnye	6,5	64	113 0010 005	5 X 1,0	witho. gnye	7,3	100
111 0005 006	6 G 0,5	28,8	6,8	79	111 0010 006	6 G 1,0	58,0	8,0	113
111 0005 007	7 G 0,5	34,0	7,0	73	111 0010 007	7 G 1,0	67,0	8,2	129
111 0005 008	8 G 0,5	38,4	8,1	101	111 0010 008	8 G 1,0	77,0	9,7	160
111 0005 010	10 G 0,5	47,6	9,2	126	111 0010 009	9 G 1,0	86,4	10,4	180
111 0005 012	12 G 0,5	58,0	9,4	136	111 0010 010	10 G 1,0	96,0	10,5	190
111 0005 014	14 G 0,5	67,0	9,7	164	111 0010 012	12 G 1,0	115,0	10,6	220
111 0005 016	16 G 0,5	77,0	10,4	185	111 0010 014	14 G 1,0	134,0	11,5	250
111 0005 018	18 G 0,5	86,0	11,5	201	111 0010 016	16 G 1,0	153,6	11,8	266
111 0005 021	21 G 0,5	101,0	12,3	246	111 0010 018	18 G 1,0	173,0	13,0	310
111 0005 025	25 G 0,5	120,0	13,3	263	111 0010 020	20 G 1,0	192,0	13,8	340
111 0005 030	30 G 0,5	144,0	14,0	334	111 0010 025	25 G 1,0	240,0	14,9	425
111 0005 034	34 G 0,5	163,0	16,8	366					
111 0005 040	40 G 0,5	192,0	18,4	441	111 0015 002	2 X 1,5	29,0	6,5	67
111 0005 050	50 G 0,5	240,0	18,2	566	111 0015 003	3 G 1,5	43,0	6,9	83
111 0005 052	52 G 0,5	250,0	18,2	590	113 0015 003	3 X 1,5	witho. gnye	6,9	83
111 0005 061	61 G 0,5	293,0	20,3	608	111 0015 004	4 G 1,5	58,0	7,4	106
					113 0015 004	4 X 1,5	witho. gnye	7,4	106
111 0007 002	2 X 0,75	14,4	5,6	46	111 0015 005	5 G 1,5	72,0	8,3	134
111 0007 003	3 G 0,75	21,6	5,8	54	113 0015 005	5 X 1,5	witho. gnye	8,3	134
113 0007 003	3 X 0,75	witho. gnye	5,8	54	111 0015 007	7 G 1,5	101,0	9,1	173
111 0007 004	4 G 0,75	29,0	6,4	66	111 0015 008	8 G 1,5	115,0	10,9	205
113 0007 004	4 X 0,75	witho. gnye	6,4	66	111 0015 009	9 G 1,5	130,0	12,0	235
111 0007 005	5 G 0,75	36,0	6,9	79	111 0015 010	10 G 1,5	144,0	12,9	270
113 0007 005	5 X 0,75	witho. gnye	6,9	79	111 0015 011	11 G 1,5	158,0	13,2	290
111 0007 006	6 G 0,75	43,2	7,5	98	111 0015 012	12 G 1,5	173,0	13,5	313
111 0007 007	7 G 0,75	50,0	7,5	105	111 0015 014	14 G 1,5	202,0	13,9	350
111 0007 008	8 G 0,75	58,0	9,0	131	111 0015 018	18 G 1,5	259,0	14,7	430
111 0007 009	9 G 0,75	65,0	9,8	155	111 0015 021	21 G 1,5	302,0	16,4	517
111 0007 010	10 G 0,75	72,0	9,9	155	111 0015 025	25 G 1,5	360,0	17,2	637
111 0007 012	12 G 0,75	86,0	10,1	172	111 0015 032	32 G 1,5	461,0	20,9	763
111 0007 015	15 G 0,75	108,0	11,2	206					
111 0007 018	18 G 0,75	130,0	12,0	246					
111 0007 021	21 G 0,75	151,0	13,3	291					
111 0007 025	25 G 0,75	180,0	14,0	332					
111 0007 040	40 G 0,75	277,0	18,8	571					
111 0007 050	50 G 0,75	360,0	19,8	655					

ConCab kabel connects the world

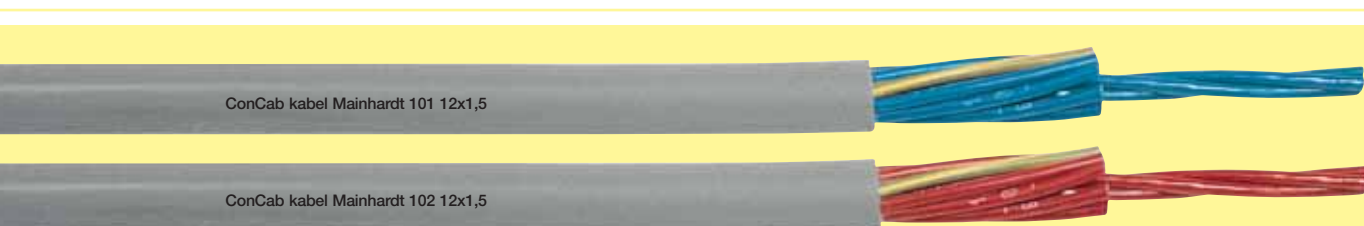


Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer dia- meter approx. mm	Weight kg/km
111 0025 002	2 X 2.5	48,0	7,7	98
111 0025 003	3 G 2.5	72,0	8,3	124
111 0025 004	4 G 2.5	96,0	9,1	154
111 0025 005	5 G 2.5	120,0	10,2	192
111 0025 007	7 G 2.5	168,0	11,3	247
111 0025 008	8 G 2.5	192,0	14,7	380
111 0040 002	2 X 4	76,8	10,7	166
111 0040 004	4 G 4	154,0	11,0	241
111 0040 005	5 G 4	192,0	12,3	301
111 0040 007	7 G 4	296,0	13,6	389
111 0060 003	3 G 6	172,8	11,9	281
111 0060 004	4 G 6	230,0	13,1	354
111 0060 005	5 G 6	288,0	14,6	440
111 0060 007	7 G 6	403,0	16,1	470
111 0100 003	3 G 10	288,0	14,7	451
111 0100 004	4 G 10	384,0	16,3	573
111 0100 005	5 G 10	480,0	18,2	711
111 0100 007	7 G 10	672,0	20,2	930
111 0160 003	3 G 16	461,0	18,3	872
111 0160 004	4 G 16	614,0	23,0	1066
111 0160 005	5 G 16	768,0	25,6	1316
111 0250 003	3 G 25	720,0	23,0	1388
111 0250 004	4 G 25	960,0	27,3	1538
111 0250 005	5 G 25	1200,0	30,5	1911
111 0350 003	3 G 35	1000,0	27,4	1760
111 0350 004	4 G 35	1344,0	31,5	2086
111 0350 005	5 G 35	1680,0	34,7	2542
111 0500 003	3 G 50	1440,0	31,3	2550
111 0500 004	4 G 50	1920,0	36,7	2960
111 0700 003	3 G 70	2016,0	37,1	3181
111 0700 004	4 G 70	2688,0	44,3	4204
111 0950 003	3 G 95	2736,0	42,8	4673
111 0950 004	4 G 95	3648,0	51,5	5618
111 1200 003	3 G 120	3456,0	50,4	5620
111 1200 004	4 G 120	4608,0	55,5	6824
111 1500 004	4 G 150	5760,0	60,2	8475
111 1850 004	4 G 185	7104,0	62,4	9680

CC-control cable-101 (blue cores)

CC-control cable-102 (red cores)

Conforms to the EC low voltage guideline 73/23/EEC CE



The flexible CC-control cable PVC-101 (blue cores) resp. -102 (red cores) are highly suitable as guiding, controlling and measuring cables especially when free unrestricted movement is required.

It can be used in the construction of machine tools, plant and appliances, as well as in heating, air conditioning, ventilation technology and other spheres of application in electrical equipment. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation, red or resp. blue core colours with consecutive white numbering. Control cables with 3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $4 \times$ cable diameter
flexible application: $15 \times$ cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
blue cores				
101 0010 004	4 G 1,0	38,0	6,7	86
101 0010 005	5 G 1,0	48,0	7,8	100
101 0010 007	7 G 1,0	67,0	8,7	129
101 0010 012	12 G 1,0	115,0	11,8	225
101 0010 018	18 G 1,0	173,0	14,0	334
101 0010 025	25 G 1,0	240,0	17,5	485
101 0015 002	2 X 1,5	29,0	6,6	67
101 0015 003	3 G 1,5	43,0	7,0	83
101 0015 004	4 G 1,5	58,0	7,9	106
101 0015 005	5 G 1,5	72,0	9,0	134
101 0015 007	7 G 1,5	101,0	9,8	173
101 0015 012	12 G 1,5	173,0	13,6	313
101 0015 018	18 G 1,5	259,0	16,4	460
101 0015 025	25 G 1,5	360,0	19,4	637
red cores				
102 0010 004	4 G 1,0	38,0	6,7	86
102 0010 005	5 G 1,0	48,0	7,8	100
102 0010 007	7 G 1,0	67,0	8,7	129
102 0010 008	8 G 1,0	77,0	9,7	175
102 0010 012	12 G 1,0	115,0	11,8	225
102 0010 018	18 G 1,0	173,0	14,0	334
102 0010 020	20 G 1,0	192,0	14,8	375
102 0010 025	25 G 1,0	240,0	17,5	485
102 0015 002	2 X 1,5	29,0	6,6	67
102 0015 003	3 G 1,5	43,0	7,0	83
102 0015 004	4 G 1,5	58,0	7,9	106
102 0015 005	5 G 1,5	72,0	9,0	134
102 0015 007	7 G 1,5	102,0	9,8	173
102 0015 012	12 G 1,5	173,0	13,6	313
102 0015 018	18 G 1,5	259,0	16,4	460
102 0015 025	25 G 1,5	360,0	19,4	637

Different dimensions available on request

CC-control cable blue-JZ-107 and OZ-117

For intrinsically safe circuits

Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-control cable blue PVC-JZ-107 resp. OZ-117 conform to VDE 0165, section 6.1.3.2.3 and are highly suitable as guiding, controlling and measuring cables. These cables for intrinsically safe circuits are assembled with the ignition protection "i" acc. to VDE. For the individual stipulations of special applications, refer to VDE 0165. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. Control cables with or without green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour blue (RAL 5015).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $4 \times$ cable diameter
flexible application: $15 \times$ cable diameter

Approvals:
acc. to VDE 245, 0250, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
107 0007 003	3 G 0,75	21,6	6,3	51	117 0007 002	2 X 0,75	14,4	6,1	43
107 0007 004	4 G 0,75	29,0	6,9	78	117 0007 003	3 X 0,75	21,6	6,3	66
107 0007 005	5 G 0,75	36,0	7,5	100	117 0007 004	4 X 0,75	29,0	6,9	78
107 0007 007	7 G 0,75	50,0	8,2	125	117 0007 005	5 X 0,75	36,0	7,5	84
107 0007 012	12 G 0,75	86,0	11,0	210	117 0007 007	7 X 0,75	50,0	8,2	118
107 0007 018	18 G 0,75	130,0	12,8	270	117 0007 008	8 X 0,75	58,0	9,6	138
107 0007 025	25 G 0,75	180,0	14,9	410	117 0007 012	12 X 0,75	86,0	11,0	189
					117 0007 018	18 X 0,75	130,0	12,8	282
107 0010 003	3 G 1,0	29,0	6,8	64	117 0007 025	25 X 0,75	180,0	14,9	400
107 0010 004	4 G 1,0	38,4	7,3	106					
107 0010 005	5 G 1,0	48,0	8,0	123	117 0010 002	2 X 1,0	19,2	6,4	50
107 0010 007	7 G 1,0	67,0	8,7	149	117 0010 003	3 X 1,0	29,0	6,8	60
107 0010 012	12 G 1,0	115,0	11,6	260	117 0010 004	4 X 1,0	38,4	7,3	106
107 0010 018	18 G 1,0	173,0	14,0	350	117 0010 005	5 X 1,0	48,0	8,0	115
107 0010 025	25 G 1,0	240,0	16,6	470	117 0010 007	7 X 1,0	67,0	8,7	140
					117 0010 012	12 X 1,0	115,0	11,6	225
107 0015 003	3 G 1,5	43,0	7,6	83	117 0010 018	18 X 1,0	173,0	14,0	334
107 0015 004	4 G 1,5	58,0	8,3	116	117 0010 025	25 X 1,0	240,0	16,6	485
107 0015 005	5 G 1,5	72,0	9,3	145					
107 0015 007	7 G 1,5	101,0	10,1	195	117 0015 002	2 X 1,5	29,9	7,3	67
107 0015 012	12 G 1,5	173,0	13,7	314	117 0015 003	3 X 1,5	43,0	7,6	110
107 0015 018	18 G 1,5	258,0	16,6	460	117 0015 004	4 X 1,5	58,0	8,3	125
107 0015 025	25 G 1,5	360,0	18,7	637	117 0015 005	5 X 1,5	72,0	9,3	145
					117 0015 007	7 X 1,5	101,0	10,1	195
					117 0015 012	12 X 1,5	173,0	13,7	314
					117 0015 018	18 X 1,5	258,0	16,6	460
					117 0015 025	25 X 1,5	360,0	18,7	637

CC-control cable orange-JZ-08

For closing and locking units

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 08 5x1,5 JZ

The CC-control cable orange PVC-JZ-08 as per VDE 0113 resp. EN 60204, part 1 is used for closing and locking units. Our safety regulations stipulate that power supply cables are of orange colour. The electric circuit is always supplied from outside to ensure that when the main switch is off, the closing and locking mechanism still functions. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation.

Cores orange with consecutive black numbers. 3 cores or more with green/yellow protective conductor in the outer layer.

Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp.

EN 50265-2-1 and IEC 60332-1).

Colour orange (RAL 2003).

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $4 \times$ cable diameter
flexible application: $15 \times$ cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
08 0010 002 2	2 X 1,0	19,2	5,9	53
08 0010 003 1	3 G 1,0	29,0	6,2	63
08 0010 003 2	3 X 1,0	witho. gnye	6,2	63
08 0010 004 1	4 G 1,0	38,4	6,7	76
08 0010 004 2	4 X 1,0	witho. gnye	6,7	76
08 0010 005 1	5 G 1,0	48,0	7,3	94
08 0015 002 2	2 X 1,5	29,0	6,5	67
08 0015 003 1	3 G 1,5	43,0	6,9	82
08 0015 004 1	4 G 1,5	58,0	7,4	100
08 0015 005 1	5 G 1,5	72,0	8,3	122

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CC-control cable yellow-JB-09

For warning systems

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 09 5x1,5 JB



The CC-control cable yellow PVC-JB-09 is used for warning systems. After the main switch has been switched off, the system is still voltage-carrying as it has to fulfil its warning function. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire, PVC core insulation. Core colours acc. to VDE 0293, cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour yellow (RAL 1016).

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
09 0015 003 3	3 G 1,5	43,0	7,8	95
09 0015 004 3	4 G 1,5	58,0	8,5	117
09 0015 005 3	5 G 1,5	72,0	9,7	144
09 0025 003 3	3 G 2.5	72,0	9,7	152
09 0025 004 3	4 G 2.5	96,0	10,4	205
09 0025 005 3	5 G 2.5	120,0	11,7	225

Technical data

Rated voltage:
450/750 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Insulation resistance:
min. 20 MOhm \times km

Bending radius:
fixed installation: 4 \times cable diameter
flexible application: 15 \times cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

ConCab kabel connects the world

CC-control cable black-JZ-586

Numbered black cores 0.6/1kV

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 586 25x1,5 JZ 0,6/1 kV



The flexible CC-control cable black PVC-JZ-586 0,6/1 kV is suitable for control, regulating and measuring cables especially when free and unrestricted movement is required. It is applied in machine tools, plant and appliance construction, heating, air conditioning and ventilation technology as well as for other applications in electrical equipment. These cables are applied for greater rated voltage and when a black sheath is stipulated. The cable is mainly sold in non-European countries. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire, PVC core insulation, black cores with consecutive white numbering. Control cables with 3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black (RAL 9005).

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
3500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $4 \times$ cable diameter
flexible application: $15 \times$ cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
586 0010 002 01	2 X 1,0	19,2	8,2	80	586 0040 002 01	2 X 4	77,0	11,1	180
586 0010 003 01	3 G 1,0	29,0	8,7	90	586 0040 003 01	3 G 4	115,0	12,6	230
586 0010 003 02	3 X 1,0	witho. gnye	8,7	90	586 0040 004 01	4 G 4	154,0	14,0	310
586 0010 004 01	4 G 1,0	38,4	9,4	100	586 0040 005 01	5 G 4	192,0	15,4	410
586 0010 004 02	4 X 1,0	witho. gnye	9,4	100	586 0040 007 01	7 G 4	269,0	16,7	540
586 0010 005 01	5 G 1,0	48,8	10,4	130					
586 0010 005 02	5 X 1,0	witho. gnye	10,4	130	586 0060 003 01	3 G 6	173,0	14,2	370
586 0010 007 01	7 G 1,0	67,0	12,1	170	586 0060 004 01	4 G 6	230,0	15,7	430
586 0010 007 02	7 X 1,0	witho. gnye	12,1	170	586 0060 005 01	5 G 6	288,0	17,9	650
586 0010 012 01	12 G 1,0	115,0	14,5	290	586 0060 007 01	7 G 6	403,0	19,7	860
586 0010 012 02	12 X 1,0	witho. gnye	14,5	290					
586 0010 018 01	18 G 1,0	173,0	17,3	405	586 0100 003 01	3 G 10	288,0	18,7	660
586 0010 018 02	18 X 1,0	witho. gnye	17,3	405	586 0100 004 01	4 G 10	384,0	19,6	790
586 0010 025 01	25 G 1,0	240,0	20,8	570	586 0100 005 01	5 G 10	480,0	23,0	960
586 0010 034 01	34 G 1,0	326,0	23,7	750	586 0100 007 01	7 G 10	672,0	25,1	1300
586 0010 041 01	41 G 1,0	394,0	25,6	890					
586 0010 042 01	42 G 1,0	403,0	25,6	900	586 0160 003 01	3 G 16	461,0	19,7	700
586 0010 050 01	50 G 1,0	480,0	26,8	1100	586 0160 004 01	4 G 16	614,0	21,9	1100
					586 0160 005 01	5 G 16	768,0	26,8	1600
586 0015 002 01	2 X 1,5	29,0	9,0	95	586 0160 007 01	7 G 16	1075,0	31,0	1890
586 0015 003 01	3 G 1,5	43,0	9,7	110					
586 0015 003 02	3 X 1,5	witho. gnye	9,7	110	586 0250 003 01	3 G 25	720,0	26,8	1450
586 0015 004 01	4 G 1,5	58,0	9,9	141	586 0250 004 01	4 G 25	960,0	29,8	1600
586 0015 004 02	4 X 1,5	witho. gnye	9,9	141	586 0250 005 01	5 G 25	1200,0	34,0	2050
586 0015 005 01	5 G 1,5	72,0	11,6	170	586 0250 007 01	7 G 25	1680,0	50,0	2900
586 0015 005 02	5 X 1,5	witho. gnye	11,6	170					
586 0015 007 01	7 G 1,5	101,0	13,6	225	586 0350 003 01	3 G 35	1008,0	31,0	1900
586 0015 007 02	7 X 1,5	witho. gnye	13,6	225	586 0350 004 01	4 G 35	1344,0	33,0	2400
586 0015 012 01	12 G 1,5	173,0	16,6	370	586 0350 005 01	5 G 35	1680,0	37,0	2900
586 0015 012 02	12 X 1,5	witho. gnye	16,6	370					
586 0015 018 01	18 G 1,5	259,0	19,5	520	586 0500 003 01	3 G 50	1440,0	36,0	2700
586 0015 025 01	25 G 1,5	360,0	23,5	730	586 0500 004 01	4 G 50	1920,0	40,0	3400
586 0015 034 01	34 G 1,5	490,0	26,7	950					
586 0015 042 01	42 G 1,5	605,0	29,5	1120	586 0700 003 01	3 G 70	2016,0	42,0	3300
586 0015 050 01	50 G 1,5	720,0	30,5	1400	586 0700 004 01	4 G 70	2736,0	46,0	5050
586 0025 002 01	2 X 2,5	48,0	9,8	160	586 0950 003 01	3 G 95	2688,0	46,0	4400
586 0025 003 01	3 G 2,5	72,0	10,5	175	586 0950 004 01	4 G 95	3648,0	60,0	6010
586 0025 003 02	3 X 2,5	witho. gnye	10,5	175					
586 0025 004 01	4 G 2,5	96,0	11,6	203	586 1200 004 01	4 G 120	4608,0	65,0	7500
586 0025 004 02	4 X 2,5	witho. gnye	11,6	203					
586 0025 005 01	5 G 2,5	120,0	12,8	251					
586 0025 005 02	5 X 2,5	witho. gnye	12,8	251					
586 0025 007 01	7 G 2,5	168,0	15,2	330					
586 0025 007 02	7 X 2,5	witho. gnye	15,2	330					
586 0025 012 01	12 G 2,5	288,0	18,2	553					
586 0025 018 01	18 G 2,5	432,0	21,8	795					
586 0025 025 01	25 G 2,5	600,0	26,0	1110					



PVC-control cable shielded





CC-control cable-JZ-CY-130

Numbered black cores, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE



The flexible shielded CC-control cable PVC-JZ-CY-130 is suitable as control and connection cable. It is applied in machine tools, plant and appliance construction, heating, air conditioning and ventilation technology as well as for other applications in electrical equipment especially where a greater electromagnetic compatibility is required. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire, PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC inner sheath (colour grey). Overall, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour transparent.

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter
flexible application: 20 × cable diameter

Approvals:
acc. to VDE 0245, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
130 0005 002	2 X 0,5	32,0	6,8	92	130 0015 002	2 X 1,5	65,0	8,5	141
130 0005 003	3 G 0,5	39,0	7,3	102	130 0015 003	3 G 1,5	76,0	9,0	164
132 0005 003	3 X 0,5	witho. gnye	7,3	102	132 0015 003	3 X 1,5	witho. gnye	9,0	164
130 0005 004	4 G 0,5	51,0	7,8	113	130 0015 004	4 G 1,5	118,0	10,0	188
132 0005 004	4 X 0,5	witho. gnye	7,8	113	132 0015 004	4 X 1,5	witho. gnye	10,0	188
130 0005 005	5 G 0,5	52,0	8,5	127	130 0015 005	5 G 1,5	125,0	10,5	221
130 0005 007	7 G 0,5	84,0	9,1	157	130 0015 007	7 G 1,5	157,0	11,4	266
130 0005 012	12 G 0,5	118,0	11,5	215	130 0015 012	12 G 1,5	254,0	15,0	438
130 0005 014	14 G 0,5	122,0	12,0	223	130 0015 018	18 G 1,5	389,0	17,3	625
130 0005 018	18 G 0,5	186,0	13,3	335	130 0015 025	25 G 1,5	530,0	20,1	889
130 0005 021	21 G 0,5	211,0	14,2	340	130 0015 034	34 G 1,5	702,0	23,0	1114
130 0005 025	25 G 0,5	250,0	15,4	403	130 0015 050	50 G 1,5	1006,0	27,1	1648
130 0005 030	30 G 0,5	297,0	16,1	468	130 0015 061	61 G 1,5	1176,0	30,0	1710
130 0005 040	40 G 0,5	343,0	18,4	572					
130 0005 050	50 G 0,5	407,0	21,6	726	130 0025 003	3 G 2,5	146,0	10,3	213
					130 0025 004	4 G 2,5	176,0	11,2	256
130 0007 002	2 X 0,75	39,0	7,4	101	130 0025 005	5 G 2,5	211,0	12,7	304
130 0007 003	3 G 0,75	58,0	7,8	116	130 0025 007	7 G 2,5	288,0	13,8	420
132 0007 003	3 X 0,75	witho. gnye	7,8	116	130 0025 012	12 G 2,5	437,0	17,8	660
130 0007 004	4 G 0,75	64,0	8,4	132	130 0025 018	18 G 2,5	521,0	21,5	945
132 0007 004	4 X 0,75	witho. gnye	8,4	132					
130 0007 005	5 G 0,75	77,0	9,0	156	130 0040 004	4 G 4	290,0	13,4	410
130 0007 007	7 G 0,75	92,0	9,8	182	130 0040 005	5 G 4	318,0	14,7	480
130 0007 012	12 G 0,75	177,0	12,3	265					
130 0007 018	18 G 0,75	217,0	14,4	391	130 0060 004	4 G 6	360,0	15,9	532
130 0007 025	25 G 0,75	288,0	16,9	541	130 0060 005	5 G 6	430,0	17,3	656
130 0007 034	34 G 0,75	368,0	19,1	699	130 0060 007	7 G 6	480,0	18,3	798
130 0007 040	40 G 0,75	418,0	21,0	770					
130 0007 042	42 G 0,75	488,0	22,0	580	130 0100 004	4 G 10	558,0	19,0	930
130 0007 050	50 G 0,75	543,0	23,3	950	130 0100 005	5 G 10	714,0	22,5	1080
130 0010 003	3 G 1,0	65,3	8,2	135	130 0160 004	4 G 16	804,0	22,2	1190
132 0010 003	3 X 1,0	witho. gnye	8,2	135	130 0160 005	5 G 16	1050,0	24,9	1385
130 0010 004	4 G 1,0	78,0	8,7	155					
132 0010 004	4 X 1,0	witho. gnye	8,7	155	130 0250 004	4 G 25	1289,0	32,4	1910
130 0010 005	5 G 1,0	85,0	9,6	181					
130 0010 007	7 G 1,0	107,0	10,4	203	130 0350 004	4 G 35	1618,0	35,4	2510
130 0010 012	12 G 1,0	194,0	13,3	347					
130 0010 018	18 G 1,0	257,0	15,5	478	130 0500 004	4 G 50	2250,0	38,5	3370
130 0010 025	25 G 1,0	342,0	17,9	645					
130 0010 034	34 G 1,0	444,0	20,6	865	130 0700 004	4 G 70	3090,0	43,7	3815
130 0010 041	41 G 1,0	578,0	22,0	1010					
130 0010 050	50 G 1,0	683,0	24,0	1172	130 0950 004	4 G 95	4050,0	49,8	5856
					130 1200 004	4 G 120	5234,0	58,1	7245



CC-control cable-JB-CY-131

Coloured cores, shielded

Conforms to the EC low voltage guideline 73/23/EEC CE



The flexible shielded CC-control cable PVC-JB-CY-131, is suitable as a control and connection cable.

It is applied in machine tools, plant and appliance construction, heating, air conditioning and ventilation technology as well as for other applications in electrical equipment especially where a greater electromagnetic compatibility is required.

The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation.

Core colours acc. to VDE 0293 308.

3 cores or more with green/yellow protective conductor in the outer layer.

Cores twisted in layers. PVC inner sheath (colour grey), overall tinned copper shield.

PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Colour transparent.

Technical data

Rated voltage:

300/500 V

protected, fixed installation:
from 1,5mm²: 0,6/1 kV

Test voltage:

4000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295 class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 6 × cable diameter
flexible application: 20 × cable diameter

Approvals:

acc. to VDE 0245, 0281


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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
131 0005 002	2 X 0,5	32,0	6,8	92	131 0250 004	4 G 25	1289,0	32,4	1910
131 0005 003	3 G 0,5	39,0	7,3	102	131 0250 005	5 G 25	1476,0	33,0	2295
131 0005 004	4 G 0,5	51,0	7,8	113					
131 0005 005	5 G 0,5	52,0	8,5	127	131 0350 004	4 G 35	1618,0	35,4	2510
					131 0350 005	5 G 35	1984,0	36,5	2805
131 0007 002	2 X 0,75	39,0	7,4	101					
131 0007 003	3 G 0,75	58,0	7,8	116	131 0500 004	4 G 50	2250,0	38,5	3370
131 0007 004	4 G 0,75	64,0	8,4	132					
131 0007 005	5 G 0,75	77,0	9,0	156	131 0700 004	4 G 70	3090,0	43,7	3815
131 0010 002	2 X 1,0	55,0	7,8	119	131 0950 004	4 G 95	4050,0	47,8	5856
131 0010 003	3 G 1,0	65,3	8,2	135					
131 0010 004	4 G 1,0	78,0	8,7	155	131 1200 004	4 G 120	5234,0	58,1	7245
131 0010 005	5 G 1,0	85,0	9,6	181					
					131 1500 004	4 G 150	6246,0	63,7	8440
131 0015 002	2 X 1,5	65,0	8,5	141					
131 0015 003	3 G 1,5	76,0	9,0	164	131 1850 004	4 G 185	7615,0	66,8	10880
131 0015 004	4 G 1,5	119,0	10,0	188					
131 0015 005	5 G 1,5	125,0	10,5	221					
131 0025 003	3 G 2.5	146,0	10,3	213					
131 0025 004	4 G 2.5	176,0	11,2	256					
131 0025 005	5 G 2.5	198,0	12,7	304					
131 0040 004	4 G 4	290,0	13,4	410					
131 0040 005	5 G 4	328,0	14,7	480					
131 0060 004	4 G 6	360,0	15,9	532					
131 0060 005	5 G 6	430,0	17,3	656					
131 0100 004	4 G 10	539,0	19,0	930					
131 0100 005	5 G 10	714,0	22,5	1080					
131 0160 004	4 G 16	804,0	22,2	1190					
131 0160 005	5 G 16	1050,0	24,9	1385					

CC-control cable blue-OZ-CY-127

For intrinsically safe electric circuits, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 127 3x1,5 OZ-CY



The CC-control cable blue-OZ-CY-127 shielded, conforms to VDE 0165, section 6.1.3.2.3 and is suitable as a control, regulating and measuring cable. These cables for intrinsically safe circuits are assembled with the ignition protection "i" acc. to VDE. For individual special application stipulations refer to VDE 0165. The overall shield protects data transfer. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation.

Black cores with consecutive white numbering. Cores twisted in layers, foil wrapping, overall tinned copper shield, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour blue (RAL 5015).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 M Ω × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter
flexible application: 20 × cable diameter

Approvals:
acc. to VDE 0245, 250, 0281

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
127 0007 002	2 X 0,75	38,0	5,7	56
127 0007 003	3 X 0,75	49,0	6,3	70
127 0007 004	4 X 0,75	58,0	6,7	95
127 0007 005	5 X 0,75	70,0	7,3	130
127 0007 007	7 X 0,75	100,0	8,6	168
127 0007 008	8 X 0,75	123,0	9,5	220
127 0007 012	12 X 0,75	154,0	10,3	232
127 0007 020	20 X 0,75	220,0	12,9	364
127 0007 025	25 X 0,75	260,0	15,1	454
127 0010 002	2 X 1,0	55,0	6,0	84
127 0010 003	3 X 1,0	70,0	6,4	110
127 0010 004	4 X 1,0	80,0	7,2	130
127 0010 005	5 X 1,0	95,0	7,6	156
127 0010 007	7 X 1,0	120,0	9,0	192
127 0010 012	12 X 1,0	185,0	11,2	265
127 0010 018	18 X 1,0	286,0	13,3	480
127 0010 025	25 X 1,0	340,0	16,2	517
127 0015 002	2 X 1,5	65,0	6,8	97
127 0015 003	3 X 1,5	90,0	7,4	125
127 0015 004	4 X 1,5	110,0	8,1	165
127 0015 005	5 X 1,5	125,0	8,9	193
127 0015 007	7 X 1,5	159,0	10,6	245
127 0015 012	12 X 1,5	245,0	12,7	365
127 0015 018	18 X 1,5	373,0	15,2	625
127 0015 025	25 X 1,5	485,0	18,5	730

CC-control cable black-JZ-CY-136

Numbered black cores 0,6/1kV, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 136 12x1,5 JZ-CY 0,6/1 kV

The flexible CC-control cable black-JZ-CY-136 shielded is suitable as a control, regulating and measuring cable especially for free, unrestricted movement. It can be used in machine tools, plant and apparatus construction, heating, air conditioning and ventilation technology as well as in other applications in electrical equipment.

The cable is used when a greater electromagnetic compatibility and black outer sheath are required.

The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation.

Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC inner sheath, overall tinned copper shield, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black (RAL 9005).

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
3500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Insulation resistance:
min. 20 MOhm × km

Bending radius:
fixed installation: 10 × cable diameter
flexible application: 20 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
136 0010 002	2 X 1,0	60,5	9,4	126	136 0100 002	2 X 10	322,0	18,4	650
136 0010 003	3 G 1,0	71,8	9,8	137	136 0100 003	3 G 10	486,6	19,6	866
136 0010 004	4 G 1,0	85,7	10,8	165	136 0100 004	4 G 10	613,8	21,9	1023
136 0010 005	5 G 1,0	93,5	12,1	192	136 0100 005	5 G 10	785,4	24,8	1298
136 0010 007	7 G 1,0	117,7	14,5	220	136 0100 007	7 G 10	1028,4	26,8	1723
136 0010 012	12 G 1,0	213,4	17,4	451					
136 0010 018	18 G 1,0	283,8	20,7	523	136 0160 002	2 X 16	543,0	22,0	690
136 0010 025	25 G 1,0	376,2	24,8	660	136 0160 003	3 G 16	684,2	23,5	837
					136 0160 004	4 G 16	929,5	26,4	1143
136 0015 002	2 X 1,5	69,3	10,2	159	136 0160 005	5 G 16	1155,0	28,8	1524
136 0015 003	3 G 1,5	83,6	10,9	181	136 0160 007	7 G 16	1596,1	31,9	1927
136 0015 004	4 G 1,5	130,9	12,2	211					
136 0015 005	5 G 1,5	137,5	13,3	258	136 0250 003	3 G 25	972,0	28,0	1848
136 0015 007	7 G 1,5	172,7	16,0	308	136 0250 004	4 G 25	1417,9	32,5	2101
136 0015 012	12 G 1,5	189,2	19,6	352	136 0250 005	5 G 25	1620,0	35,7	2687
136 0015 018	18 G 1,5	404,0	23,4	698	136 0250 007	7 G 25	2268,8	39,8	3835
136 0015 025	25 G 1,5	583,0	28,2	979					
					136 0350 003	3 G 35	1008,0	35,2	2261
136 0025 002	2 X 2,5	101,4	11,5	204	136 0350 004	4 G 35	1178,9	39,1	2761
136 0025 003	3 G 2,5	160,4	12,2	234	136 0350 005	5 G 35	1680,0	42,7	3465
136 0025 004	4 G 2,5	191,4	13,4	281					
136 0025 005	5 G 2,5	203,6	14,9	359	136 0500 003	3 G 50	1800,0	39,2	3213
136 0025 007	7 G 2,5	316,8	17,9	548	136 0500 004	4 G 50	2475,0	42,9	3630
136 0025 012	12 G 2,5	480,7	21,9	857	136 0500 005	5 G 50	3000,0	46,7	5047
136 0025 018	18 G 2,5	573,1	26,1	1177					
136 0025 025	25 G 2,5	683,0	31,9	1547	136 0700 003	3 G 70	2268,0	44,8	3927
					136 0700 004	4 G 70	3410,0	49,3	5115
136 0040 002	2 X 4	124,8	14,3	260	136 0700 005	5 G 70	4285,0	54,5	6573
136 0040 003	3 G 4	195,8	15,1	322					
136 0040 004	4 G 4	260,7	16,7	504	136 0950 003	3 G 95	3625,0	50,0	5580
136 0040 005	5 G 4	308,0	18,6	585	136 0950 004	4 G 95	4455,0	57,1	6490
136 0040 007	7 G 4	407,0	20,0	811	136 0950 005	5 G 95	6042,0	62,5	8970
136 0040 012	12 G 4	742,1	26,9	1283					
					136 1200 003	3 G 120	4653,0	54,8	7773
136 0060 002	2 X 6	176,5	16,0	315	136 1200 004	4 G 120	5596,0	61,3	8930
136 0060 003	3 G 6	264,0	17,0	503					
136 0060 004	4 G 6	349,8	18,7	672					
136 0060 005	5 G 6	473,0	20,7	721					
136 0060 007	7 G 6	601,0	23,0	1005					

CC-control cable-JZ-SY-120

Numbered black cores with steel wire braiding
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 120 12x1,5 JZ-SY

The flexible CC-control cable-JZ-SY-120 with steel wire braiding, is suitable as a control, regulating and measuring cable especially for free, unrestricted movement.

It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology as well as for other applications in electrical equipment. On account of its triple protection with an inside sheath, steel wire braiding and outer sheath, it is particularly suitable for heavy mechanical work applications. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire, PVC core insulation, cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC inner sheath, overall steel wire braiding, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour transparent.

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^{\circ}\text{C}$
flexible application: -5°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $6 \times$ cable diameter
flexible application: $20 \times$ cable diameter

Approvals:
acc. to VDE 0245, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
120 0005 002	2 X 0,5	9,6	7,6	95	120 0015 002	2 X 1,5	29,0	9,3	130
120 0005 003	3 G 0,5	14,4	8,0	105	120 0015 003	3 G 1,5	43,0	9,8	150
120 0005 004	4 G 0,5	19,2	8,5	115	120 0015 004	4 G 1,5	58,0	10,2	180
120 0005 005	5 G 0,5	24,0	9,2	140	120 0015 005	5 G 1,5	72,0	11,3	230
120 0005 007	7 G 0,5	34,0	10,0	170	120 0015 007	7 G 1,5	101,0	12,0	270
120 0005 010	10 G 0,5	48,0	11,7	190	120 0015 008	8 G 1,5	115,0	14,2	290
120 0005 012	12 G 0,5	58,0	11,9	210	120 0015 012	12 G 1,5	173,0	15,5	400
120 0005 014	14 G 0,5	68,0	12,6	230	120 0015 014	14 G 1,5	202,0	15,8	460
120 0005 018	18 G 0,5	86,4	13,9	280	120 0015 018	18 G 1,5	259,0	17,7	530
120 0005 021	21 G 0,5	101,0	14,9	310	120 0015 021	21 G 1,5	302,0	19,5	600
120 0005 025	25 G 0,5	120,0	15,7	370	120 0015 025	25 G 1,5	360,0	20,4	700
120 0005 040	40 G 0,5	192,0	18,9	500	120 0015 034	34 G 1,5	490,0	23,1	940
120 0005 052	52 G 0,5	250,0	20,9	640	120 0015 042	42 G 1,5	605,0	24,4	1120
120 0005 061	61 G 0,5	293,0	21,9	730	120 0015 050	50 G 1,5	720,0	27,2	1300
					120 0015 061	61 G 1,5	878,0	29,5	1550
120 0007 002	2 X 0,75	14,4	8,1	100	120 0015 080	80 G 1,5	1152,0	33,0	1950
120 0007 003	3 G 0,75	21,6	8,5	120	120 0015 100	100 G 1,5	1440,0	35,7	2350
120 0007 004	4 G 0,75	29,0	9,4	140					
120 0007 005	5 G 0,75	36,0	10,0	150	120 0025 002	2 X 2,5	48,0	10,4	200
120 0007 007	7 G 0,75	50,0	11,3	180	120 0025 003	3 G 2,5	72,0	11,2	230
120 0007 009	9 G 0,75	65,0	12,4	215	120 0025 004	4 G 2,5	96,0	12,0	290
120 0007 012	12 G 0,75	86,0	12,9	250	120 0025 005	5 G 2,5	120,0	13,2	310
120 0007 018	18 G 0,75	130,0	15,0	350	120 0025 007	7 G 2,5	168,0	14,2	380
120 0007 021	21 G 0,75	151,0	16,2	390	120 0025 012	12 G 2,5	288,0	18,4	550
120 0007 025	25 G 0,75	180,0	17,2	440	120 0025 018	18 G 2,5	432,0	21,5	810
120 0007 034	34 G 0,75	245,0	19,3	550	120 0025 025	25 G 2,5	600,0	24,4	1100
120 0007 042	42 G 0,75	303,0	20,8	635	120 0025 034	34 G 2,5	816,0	28,1	1450
120 0007 050	50 G 0,75	360,0	23,0	780					
120 0007 061	61 G 0,75	439,0	23,9	920	120 0040 003	3 G 4	115,2	12,1	270
120 0007 065	65 G 0,75	468,0	29,7	976	120 0040 004	4 G 4	154,0	14,2	340
					120 0040 005	5 G 4	192,0	15,0	420
120 0010 002	2 X 1,0	19,2	8,7	110	120 0040 007	7 G 4	269,0	16,4	540
120 0010 003	3 G 1,0	29,0	8,8	130					
120 0010 004	4 G 1,0	38,4	9,5	150	120 0060 004	4 G 6	230,0	16,3	520
120 0010 005	5 G 1,0	48,0	10,1	170	120 0060 005	5 G 6	288,0	17,7	600
120 0010 007	7 G 1,0	67,2	11,1	210	120 0060 007	7 G 6	403,0	19,3	780
120 0010 008	8 G 1,0	77,0	12,5	240					
120 0010 012	12 G 1,0	115,0	13,9	290	120 0100 004	4 G 10	384,0	19,5	800
120 0010 014	14 G 1,0	134,0	14,5	350	120 0100 005	5 G 10	480,0	21,6	930
120 0010 018	18 G 1,0	173,0	15,9	410	120 0100 007	7 G 10	672,0	23,4	1146
120 0010 020	20 G 1,0	192,0	16,7	440					
120 0010 025	25 G 1,0	240,0	18,0	540	120 0160 004	4 G 16	614,0	22,5	1230
120 0010 034	34 G 1,0	326,0	20,5	690	120 0160 005	5 G 16	768,0	24,7	1450
120 0010 036	36 G 1,0	346,0	20,7	735	120 0160 007	7 G 16	1075,0	27,3	1670
120 0010 041	41 G 1,0	394,0	22,3	790					
120 0010 042	42 G 1,0	404,0	23,0	805	120 0250 004	4 G 25	960,0	28,9	1600
120 0010 050	50 G 1,0	480,0	24,3	950	120 0250 005	5 G 25	1200,0	32,2	1950
120 0010 061	61 G 1,0	586,0	25,9	1150					
120 0010 065	65 G 1,0	624,0	27,4	1245	120 0350 004	4 G 35	1344,0	33,7	2250
120 0010 100	100 G 1,0	960,0	32,4	1870	120 0350 005	5 G 35	1680,0	37,8	2700

ConCab kabel connects the world

CC-control cable-JB-SY-121

Coloured cores with steel wire braiding
Conforms to the EC low voltage guideline 73/23/EEC CE



The flexible CC-control cable-JB-SY-121 with steel wire braiding, is suitable as a control, regulating and measuring cable especially for free, unrestricted movement. It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology as well as for other applications in electrical equipment. On account of its triple protection with an inside sheath, steel wire braiding and an outer sheath, it is particularly suitable for heavy mechanical work. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire, PVC core insulation.
Cores coloured acc. to VDE 0293 308.
3 cores or more with protective green/yellow conductor in the outer layer.
Cores twisted in layers. PVC inner sheath, overall steel wire braiding, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour transparent.

Technical data

Rated voltage:
300/500 V
protected, fixed installation:
from 2,5mm²: 0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter
flexible application: 20 × cable diameter

Approvals:
acc. to VDE 0245, 0281

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
121 0005 002	2 X 0,5	9,6	7,7	114	121 0025 002	2 X 2.5	48,0	12,1	185
121 0005 003	3 G 0,5	14,4	8,1	123	121 0025 003	3 G 2.5	72,0	12,6	280
121 0005 004	4 G 0,5	19,2	8,6	138	121 0025 004	4 G 2.5	96,0	13,9	335
121 0005 005	5 G 0,5	24,0	9,2	154	121 0025 005	5 G 2.5	120,0	15,2	430
121 0007 002	2 X 0,75	14,4	8,1	126	121 0040 003	3 G 4	115,2	14,6	349
121 0007 003	3 G 0,75	21,6	8,5	143	121 0040 004	4 G 4	154,0	15,7	460
121 0007 004	4 G 0,75	29,0	9,4	155	121 0040 005	5 G 4	192,0	17,3	550
121 0007 005	5 G 0,75	36,0	9,9	185	121 0060 003	3 G 6	173,0	15,8	452
121 0010 002	2 X 1,0	19,2	8,7	145	121 0060 004	4 G 6	230,0	17,3	595
121 0010 003	3 G 1,0	29,0	8,8	163	121 0060 005	5 G 6	288,0	18,8	673
121 0010 004	4 G 1,0	38,4	9,6	184	121 0100 004	4 G 10	384,0	21,1	982
121 0010 005	5 G 1,0	48,0	10,2	212	121 0100 005	5 G 10	480,0	23,1	1136
121 0015 002	2 X 1,5	29,0	9,3	170	121 0160 004	4 G 16	614,0	23,8	1350
121 0015 003	3 G 1,5	43,0	9,8	190	121 0160 005	5 G 16	768,0	26,7	1650
121 0015 004	4 G 1,5	58,0	10,2	221	121 0250 004	4 G 25	960,0	29,2	2000
121 0015 005	5 G 1,5	72,0	11,2	265	121 0250 005	5 G 25	1200,0	32,4	2400
					121 0350 004	4 G 35	1344,0	32,5	2060
					121 0350 005	5 G 35	1680,0	36,3	3000
					121 0500 004	4 G 50	1920,0	38,5	2943
					121 0700 004	4 G 70	2688,0	43,5	4092
					121 0950 004	4 G 95	3648,0	49,7	6300
					121 1200 004	4 G 120	4608,0	56,9	7250



PVC-control cable
with approvals



CC-control cable H05VV5-F-115

Oil resistant PVC-control cable according to HD 21.13 S1
Conforms to the EC low voltage guideline 73/23/EEC

 and HAR

ConCab kabel Mainhardt 115 4x1,5 H05VV5-F HAR



The flexible CC-control cable H05VV5-F-115, is suitable as a control, regulating and measuring cable for free unrestricted movement. It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology as well as in other oil resistant stipulated applications acc. to VDE 0281, part 13 resp. HD 21.13 S1. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. Oil resistant PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
VDE 0281, part 13
HD 21.13 S1

ConCab kabel connects the world



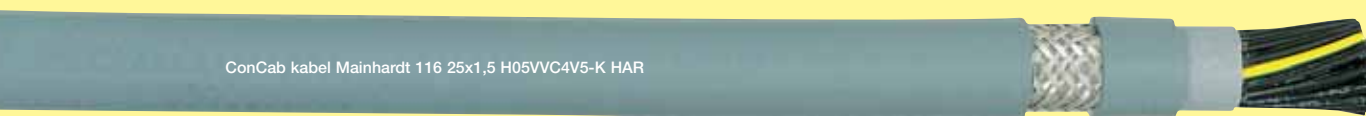
Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
115 0005 002	2 X 0,5	9,7	6,0	46	115 0010 014	14 G 1,0	134,0	14,5	361
115 0005 003	3 G 0,5	14,4	6,3	54	115 0010 018	18 G 1,0	173,0	15,5	400
115 0005 004	4 G 0,5	20,5	7,1	65	115 0010 025	25 G 1,0	240,0	18,4	569
115 0005 005	5 G 0,5	24,0	7,4	80	115 0010 027	27 G 1,0	259,0	18,4	582
115 0005 007	7 G 0,5	34,0	9,3	119	115 0010 034	34 G 1,0	326,0	20,9	742
115 0005 009	9 G 0,5	43,0	11,0	150	115 0010 041	41 G 1,0	392,0	22,7	822
115 0005 012	12 G 0,5	58,0	11,6	186	115 0010 042	42 G 1,0	402,0	22,7	837
115 0005 014	14 G 0,5	67,0	12,5	215	115 0010 050	50 G 1,0	480,0	23,8	1052
115 0005 018	18 G 0,5	86,6	13,6	260	115 0010 061	61 G 1,0	586,0	25,9	1265
115 0005 025	25 G 0,5	120,0	16,7	349	115 0010 065	65 G 1,0	624,0	27,7	1315
115 0005 027	27 G 0,5	129,6	16,7	373					
115 0005 034	34 G 0,5	163,2	19,5	480	115 0015 002	2 X 1,5	29,0	7,7	90
115 0005 041	41 G 0,5	196,0	21,0	570	115 0015 003	3 G 1,5	43,0	8,6	97
115 0005 050	50 G 0,5	240,0	22,5	658	115 0015 004	4 G 1,5	58,0	9,3	128
115 0005 061	61 G 0,5	293,0	24,0	780	115 0015 005	5 G 1,5	72,0	10,3	168
115 0005 065	65 G 0,5	313,0	26,3	810	115 0015 007	7 G 1,5	101,0	12,2	243
					115 0015 009	9 G 1,5	130,0	14,6	282
115 0007 002	2 X 0,75	14,4	6,3	52	115 0015 012	12 G 1,5	173,0	14,9	324
115 0007 003	3 G 0,75	21,6	7,0	75	115 0015 014	14 G 1,5	202,0	16,0	372
115 0007 004	4 G 0,75	29,0	7,5	82	115 0015 018	18 G 1,5	259,0	17,1	485
115 0007 005	5 G 0,75	36,0	8,3	113	115 0015 025	25 G 1,5	360,0	21,8	671
115 0007 007	7 G 0,75	50,0	10,1	145	115 0015 027	27 G 1,5	389,0	21,8	695
115 0007 009	9 G 0,75	65,0	11,5	194	115 0015 034	34 G 1,5	490,0	26,0	881
115 0007 012	12 G 0,75	86,0	12,2	231	115 0015 041	41 G 1,5	590,0	27,0	1085
115 0007 014	14 G 0,75	101,0	13,2	274	115 0015 042	42 G 1,5	605,0	27,0	1110
115 0007 018	18 G 0,75	130,0	14,3	338	115 0015 050	50 G 1,5	720,0	28,5	1381
115 0007 025	25 G 0,75	180,0	17,6	461	115 0015 061	61 G 1,5	878,0	30,7	1640
115 0007 034	34 G 0,75	245,0	19,8	614	115 0015 065	65 G 1,5	936,0	32,8	1730
115 0007 041	41 G 0,75	296,0	21,5	730					
115 0007 050	50 G 0,75	360,0	22,6	850	115 0025 002	2 X 2,5	48,0	9,1	110
115 0007 061	61 G 0,75	439,0	24,8	1030	115 0025 003	3 G 2,5	72,0	9,7	154
115 0007 065	65 G 0,75	468,1	26,1	1071	115 0025 004	4 G 2,5	96,0	10,8	212
					115 0025 005	5 G 2,5	120,0	12,0	242
115 0010 002	2 X 1,0	19,2	6,8	66	115 0025 007	7 G 2,5	168,0	14,7	350
115 0010 003	3 G 1,0	29,0	7,2	78	115 0025 012	12 G 2,5	288,0	17,8	543
115 0010 004	4 G 1,0	38,4	7,8	104	115 0025 014	14 G 2,5	336,0	19,6	611
115 0010 005	5 G 1,0	48,0	8,8	132	115 0025 018	18 G 2,5	432,0	21,4	787
115 0010 007	7 G 1,0	67,0	10,4	183	115 0025 025	25 G 2,5	600,0	26,1	1175
115 0010 009	9 G 1,0	86,4	12,0	230	115 0025 034	34 G 2,5	816,0	29,5	1529
115 0010 012	12 G 1,0	115,0	13,5	286	115 0025 041	41 G 2,5	984,0	32,6	1905
					115 0025 050	50 G 2,5	1200,0	35,0	2290

CC-control cable H05VVC4V5-K-116

Oil resistant PVC-control cable according to HD 21.13 S1, shielded
Conforms to the EC low voltage guideline 73/23/EEC



 and HAR



The flexible CC-control cable shielded H05VVC4V5-K-116 is suitable as a control, regulating and measuring cable especially when free unrestricted movement is required. It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology and where a greater electromagnetic compatibility (EMC) as well as stipulations for oil resistance under VDE 0281, part 13 resp. HD 21.13 S1 are required. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation, cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC inner sheath, overall tinned copper shield, oil resistant PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MΩ × km

Temperature range:
fixed installation: -40°C to +70°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
VDE 0281, part 13
HD 21.13 S1

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
116 0005 002	2 X 0,5	30,0	8,6	92	116 0010 018	18 G 1,0	304,0	18,9	580
116 0005 003	3 G 0,5	36,0	9,0	109	116 0010 025	25 G 1,0	370,0	22,4	766
116 0005 004	4 G 0,5	42,0	9,6	126	116 0010 034	34 G 1,0	420,0	25,1	996
116 0005 005	5 G 0,5	48,0	10,4	156	116 0010 041	41 G 1,0	578,0	26,1	1155
116 0005 007	7 G 0,5	64,0	12,1	192	116 0010 042	42 G 1,0	588,0	26,1	1175
116 0005 009	9 G 0,5	80,0	12,5	230	116 0010 050	50 G 1,0	728,0	28,5	1300
116 0005 012	12 G 0,5	105,0	13,5	280	116 0010 061	61 G 1,0	883,0	30,1	1500
116 0005 014	14 G 0,5	114,0	14,2	302	116 0010 065	65 G 1,0	914,0	32,4	1510
116 0005 018	18 G 0,5	147,0	15,8	384					
116 0005 025	25 G 0,5	210,0	20,0	556	116 0015 002	2 X 1,5	69,0	9,9	146
116 0005 034	34 G 0,5	298,0	22,4	634	116 0015 003	3 G 1,5	83,0	10,9	176
116 0005 041	41 G 0,5	349,0	23,0	770	116 0015 004	4 G 1,5	95,0	11,9	235
116 0005 050	50 G 0,5	470,0	25,0	970	116 0015 005	5 G 1,5	118,0	13,2	245
116 0005 061	61 G 0,5	530,0	26,8	1072	116 0015 007	7 G 1,5	170,0	15,7	314
116 0005 065	65 G 0,5	563,0	28,4	1198	116 0015 009	9 G 1,5	214,0	17,0	380
					116 0015 012	12 G 1,5	240,0	18,7	500
116 0007 002	2 X 0,75	41,0	9,0	102	116 0015 014	14 G 1,5	283,0	18,3	560
116 0007 003	3 G 0,75	55,0	9,3	115	116 0015 018	18 G 1,5	355,0	21,8	657
116 0007 004	4 G 0,75	67,0	10,2	150	116 0015 025	25 G 1,5	498,0	26,8	950
116 0007 005	5 G 0,75	78,0	10,9	189	116 0015 034	34 G 1,5	754,0	29,5	1204
116 0007 007	7 G 0,75	90,0	12,9	235	116 0015 041	41 G 1,5	805,0	30,7	1453
116 0007 009	9 G 0,75	112,0	13,8	285	116 0015 042	42 G 1,5	820,0	30,7	1468
116 0007 012	12 G 0,75	166,0	14,3	355	116 0015 050	50 G 1,5	1033,0	34,0	1663
116 0007 014	14 G 0,75	175,0	15,1	362	116 0015 061	61 G 1,5	1238,0	36,5	1852
116 0007 018	18 G 0,75	190,0	16,9	488	116 0015 065	65 G 1,5	1296,0	38,1	1971
116 0007 025	25 G 0,75	275,0	21,5	654					
116 0007 034	34 G 0,75	400,0	23,7	861	116 0025 002	2 X 2,5	81,0	12,0	190
116 0007 041	41 G 0,75	470,0	24,5	970	116 0025 003	3 G 2,5	110,0	12,6	243
116 0007 050	50 G 0,75	582,0	26,8	1160	116 0025 004	4 G 2,5	143,0	14,0	280
116 0007 061	61 G 0,75	679,0	29,4	1402	116 0025 005	5 G 2,5	182,0	15,5	342
116 0007 065	65 G 0,75	708,0	31,2	1504	116 0025 007	7 G 2,5	267,0	18,4	439
					116 0025 012	12 G 2,5	409,0	20,6	670
116 0010 002	2 X 1,0	48,0	9,2	114	116 0025 014	14 G 2,5	425,0	22,5	890
116 0010 003	3 G 1,0	62,0	9,9	142	116 0025 018	18 G 2,5	608,0	24,3	1052
116 0010 004	4 G 1,0	78,0	10,5	175	116 0025 025	25 G 2,5	897,0	31,3	1375
116 0010 005	5 G 1,0	91,0	11,5	205	116 0025 034	34 G 2,5	1179,0	35,0	1892
116 0010 007	7 G 1,0	118,0	13,6	264	116 0025 041	41 G 2,5	1473,0	36,0	2286
116 0010 009	9 G 1,0	147,0	14,8	335	116 0025 050	50 G 2,5	1660,0	38,5	2673
116 0010 012	12 G 1,0	185,0	16,2	420	116 0025 061	61 G 2,5	1992,0	42,0	3085
116 0010 014	14 G 1,0	198,0	17,0	433					

CC-Zweinorm-167

PVC-control cable with approvals

Conforms to the EC low voltage guideline 73/23/EEC



ConCab kabel Mainhardt 167 4x1,5 QMM E172073 cUL AWM STYLE 2587 600V 90°C



Technical data

Rated voltage:
UL/CSA 600 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands acc. to VDE 0295,
class 5 resp. UL-Style 1012

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to 90°C
flexible application: -5°C to 90°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
UL: AWM-Style 1012,
UL- Style 2587 VW1
CSA: AWM I A/B, II A/B FT1

The CC-Zweinorm-167 with UL/CSA approval is especially designed for the North American market. It is suitable as a control, regulating and measuring cable especially when free unrestricted movement is required. It is used in machine tool, plant and apparatus construction, heating, air conditioning, ventilation technology and for other electrical equipment applications. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. Oil resistant PVC outer sheath, flame retardant and self-extinguishing (acc. to CSA FT1 and IEC 60332-1). Colour grey (RAL 7001).

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
167 20 02	2 X 0,5	2 × AWG 20	9,7	6,0	46
167 20 03	3 G 0,5	3 × AWG 20	14,4	6,3	54
167 20 04	4 G 0,5	4 × AWG 20	20,5	7,1	65
167 20 05	5 G 0,5	5 × AWG 20	24,9	7,4	80
167 20 07	7 G 0,5	7 × AWG 20	34,0	9,3	119
167 20 09	9 G 0,5	9 × AWG 20	43,0	11,0	150
167 20 12	12 G 0,5	12 × AWG 20	58,0	11,6	186
167 20 18	18 G 0,5	18 × AWG 20	86,4	13,6	260
167 20 25	25 G 0,5	25 × AWG 20	120,0	16,4	349
167 20 34	34 G 0,5	34 × AWG 20	163,2	19,5	480
167 20 41	41 G 0,5	41 × AWG 20	196,0	21,0	570
167 19 02	2 X 0,75	2 × AWG 19	14,4	6,4	52
167 19 03	3 G 0,75	3 × AWG 19	21,6	6,8	75
167 19 04	4 G 0,75	4 × AWG 19	29,0	7,4	82
167 19 05	5 G 0,75	5 × AWG 19	36,0	8,3	113
167 19 07	7 G 0,75	7 × AWG 19	50,0	9,7	145
167 19 09	9 G 0,75	9 × AWG 19	65,0	12,3	231
167 19 12	12 G 0,75	12 × AWG 19	86,0	14,8	338
167 19 18	18 G 0,75	18 × AWG 19	130,0	17,0	461
167 19 25	25 G 0,75	25 × AWG 19	180,0	19,1	614
167 19 34	34 G 0,75	34 × AWG 19	245,0	21,3	730
167 19 41	41 G 0,75	41 × AWG 19	296,0	23,2	850
167 18 02	2 X 1,0	2 × AWG 18	19,2	6,8	66
167 18 03	3 G 1,0	3 × AWG 18	29,0	7,2	78
167 18 04	4 G 1,0	4 × AWG 18	38,4	7,8	104
167 18 05	5 G 1,0	5 × AWG 18	48,0	8,8	132
167 18 07	7 G 1,0	7 × AWG 18	67,0	10,4	183
167 18 09	9 G 1,0	9 × AWG 18	86,4	12,0	230
167 18 12	12 G 1,0	12 × AWG 18	115,0	13,5	286
167 18 18	18 G 1,0	18 × AWG 18	173,0	15,5	400
167 18 25	25 G 1,0	25 × AWG 18	240,0	18,4	569
167 18 34	34 G 1,0	34 × AWG 18	326,0	20,9	742
167 18 41	41 G 1,0	41 × AWG 18	394,0	22,7	822
167 16 02	2 X 1,5	2 × AWG 16	29,0	7,7	84
167 16 03	3 G 1,5	3 × AWG 16	43,0	8,6	97
167 16 04	4 G 1,5	4 × AWG 16	58,0	9,3	118
167 16 05	5 G 1,5	5 × AWG 16	72,0	10,3	135
167 16 07	7 G 1,5	7 × AWG 16	101,0	12,2	187
167 16 09	9 G 1,5	9 × AWG 16	130,0	14,6	254
167 16 12	12 G 1,5	12 × AWG 16	173,0	14,9	316
167 16 18	18 G 1,5	18 × AWG 16	259,0	17,8	448
167 16 25	25 G 1,5	25 × AWG 16	360,0	21,8	625
167 16 34	34 G 1,5	34 × AWG 16	490,0	26,0	865
167 16 41	41 G 1,5	41 × AWG 16	590,0	27,0	1095
167 16 50	50 G 1,5	50 × AWG 16	720,0	29,5	1342

CC-Zweinorm-167

PVC-control cable with approvals

Conforms to the EC low voltage guideline 73/23/EEC



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
167 14 02	2 X 2.5	2 × AWG 14	48,0	9,1	97
167 14 03	3 G 2.5	3 × AWG 14	72,0	9,7	138
167 14 04	4 G 2.5	4 × AWG 14	96,0	10,8	177
167 14 05	5 G 2.5	5 × AWG 14	120,0	12,0	210
167 14 07	7 G 2.5	7 × AWG 14	168,0	14,7	289
167 14 09	9 G 2.5	9 × AWG 14	216,0	17,0	433
167 14 12	12 G 2.5	12 × AWG 14	288,0	17,8	566
167 14 18	18 G 2.5	18 × AWG 14	432,0	21,4	860
167 14 25	25 G 2.5	25 × AWG 14	600,0	26,1	1173
167 12 03	3 G 4	3 × AWG 12	115,0	10,4	226
167 12 04	4 G 4	4 × AWG 12	154,0	11,1	274
167 12 05	5 G 4	5 × AWG 12	192,0	12,4	355
167 12 07	7 G 4	7 × AWG 12	369,0	13,7	462
167 10 03	3 G 6	3 × AWG 10	173,0	12,3	349
167 10 04	4 G 6	4 × AWG 10	231,0	13,5	402
167 10 05	5 G 6	5 × AWG 10	288,0	15,2	487
167 10 07	7 G 6	7 × AWG 10	403,0	18,9	633
167 08 03	3 G 10	3 × AWG 8	288,0	15,4	533
167 08 04	4 G 10	4 × AWG 8	384,0	17,4	634
167 08 05	5 G 10	5 × AWG 8	480,0	20,0	781
167 08 07	7 G 10	7 × AWG 8	672,0	23,4	1128
167 06 03	3 G 16	3 × AWG 6	461,0	18,6	844
167 06 04	4 G 16	4 × AWG 6	614,0	19,8	1063
167 06 05	5 G 16	5 × AWG 6	768,0	23,0	1241
167 06 07	7 G 16	7 × AWG 6	1075,0	24,5	1754
167 04 03	3 G 25	3 × AWG 4	720,0	23,4	1200
167 04 04	4 G 25	4 × AWG 4	960,0	26,8	1593
167 04 05	5 G 25	5 × AWG 4	1200,0	28,6	1991
167 04 07	7 G 25	7 × AWG 4	1680,0	34,6	2846
167 02 03	3 G 35	3 × AWG 2	1008,0	26,3	1612
167 02 04	4 G 35	4 × AWG 2	1344,0	30,0	2118
167 02 05	5 G 35	5 × AWG 2	1680,0	32,5	2621

ConCab kabel connects the world



ConCab kabel Mainhardt 168 25x1,5 QMM E172073 cUL AWM STYLE 2587 600V 90°C

The CC-Zweinorm-CY-168 shielded with UL/CSA approval is especially designed for the North American market. It is particularly good as a control, regulating and measuring cable especially when free unrestricted movement is required.

It is used in machine tool, plant and apparatus construction, heating, air conditioning, ventilation technology and where a greater electromagnetic compatibility is required (EMC). The PVC outer sheath is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation.

Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer.

Cores twisted in layers.

PVC inner sheath, overall tinned copper shield. Oil resistant PVC outer sheath, flame retardant and self-extinguishing (acc. to CSA FT1 and IEC 60332-1).

Colour grey (RAL 7001).

Technical data

Rated voltage:
UL/CSA 600 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands acc. to VDE 0295
class 5 resp. UL-Style 1012

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +90°C
flexible application: -5°C to +90°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
UL: AWM-Style 1012,
UL-Style 2587, VW1
CSA: AWM I A/B, II A/B FT1



CC-Zweinorm-CY-168

PVC-control cable with approvals, shielded
Conforms to the EC low voltage guideline 73/23/EEC



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
168 20 02	2 X 0,5	2 × AWG 20	30,0	8,3	92
168 20 03	3 G 0,5	3 × AWG 20	36,0	8,5	109
168 20 04	4 G 0,5	4 × AWG 20	42,0	9,2	126
168 20 05	5 G 0,5	5 × AWG 20	48,0	10,0	156
168 20 07	7 G 0,5	7 × AWG 20	64,0	11,4	192
168 20 09	9 G 0,5	9 × AWG 20	80,0	11,6	230
168 20 12	12 G 0,5	12 × AWG 20	105,0	14,5	280
168 20 18	18 G 0,5	18 × AWG 20	147,0	16,2	384
168 20 25	25 G 0,5	25 × AWG 20	210,0	20,0	556
168 20 34	34 G 0,5	34 × AWG 20	298,0	23,0	634
168 20 41	41 G 0,5	41 × AWG 20	349,0	24,0	770
168 19 02	2 X 0,75	2 × AWG 19	36,0	8,6	98
168 19 03	3 G 0,75	3 × AWG 19	55,0	9,3	115
168 19 04	4 G 0,75	4 × AWG 19	67,0	10,2	150
168 19 05	5 G 0,75	5 × AWG 19	78,0	10,9	184
168 19 07	7 G 0,75	7 × AWG 19	90,0	12,9	235
168 19 09	9 G 0,75	9 × AWG 19	115,0	13,4	268
168 19 12	12 G 0,75	12 × AWG 19	166,0	14,3	355
168 19 18	18 G 0,75	18 × AWG 19	190,0	16,9	488
168 19 25	25 G 0,75	25 × AWG 19	275,0	21,5	654
168 19 34	34 G 0,75	34 × AWG 19	400,0	23,7	861
168 19 41	41 G 0,75	41 × AWG 19	470,0	24,5	970
168 18 02	2 X 1,0	2 × AWG 18	41,0	8,9	102
168 18 03	3 G 1,0	3 × AWG 18	62,0	9,5	142
168 18 04	4 G 1,0	4 × AWG 18	78,0	10,1	175
168 18 05	5 G 1,0	5 × AWG 18	91,0	11,1	205
168 18 07	7 G 1,0	7 × AWG 18	118,0	13,2	264
168 18 09	9 G 1,0	9 × AWG 18	138,0	15,1	325
168 18 12	12 G 1,0	12 × AWG 18	185,0	16,8	420
168 18 18	18 G 1,0	18 × AWG 18	304,0	18,0	580
168 18 25	25 G 1,0	25 × AWG 18	370,0	22,0	766
168 18 34	34 G 1,0	34 × AWG 18	420,0	25,6	996
168 18 41	41 G 1,0	41 × AWG 18	578,0	26,6	1155
168 16 02	2 X 1,5	2 × AWG 16	70,0	10,2	136
168 16 03	3 G 1,5	3 × AWG 16	83,0	10,9	176
168 16 04	4 G 1,5	4 × AWG 16	95,0	11,9	235
168 16 05	5 G 1,5	5 × AWG 16	118,0	13,2	245
168 16 07	7 G 1,5	7 × AWG 16	170,0	15,7	314
168 16 09	9 G 1,5	9 × AWG 16	203,0	17,0	360
168 16 12	12 G 1,5	12 × AWG 16	240,0	18,7	500
168 16 18	18 G 1,5	18 × AWG 16	355,0	20,8	687
168 16 25	25 G 1,5	25 × AWG 16	498,0	26,8	950
168 16 34	34 G 1,5	34 × AWG 16	754,0	29,5	1204
168 16 41	41 G 1,5	41 × AWG 16	805,0	30,7	1453

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
168 14 02	2 X 2.5	2 × AWG 14	81,0	11,6	173
168 14 03	3 G 2.5	3 × AWG 14	110,0	12,1	220
168 14 04	4 G 2.5	4 × AWG 14	143,0	13,4	270
168 14 05	5 G 2.5	5 × AWG 14	182,0	14,4	329
168 14 07	7 G 2.5	7 × AWG 14	267,0	17,5	428
168 14 09	9 G 2.5	9 × AWG 14	326,0	20,4	589
168 14 12	12 G 2.5	12 × AWG 14	409,0	22,0	761
168 14 18	18 G 2.5	18 × AWG 14	639,0	25,3	1140
168 14 25	25 G 2.5	25 × AWG 14	897,0	30,0	1551
168 12 03	3 G 4	3 × AWG 12	198,0	12,8	310
168 12 04	4 G 4	4 × AWG 12	232,0	13,5	456
168 12 05	5 G 4	5 × AWG 12	275,0	14,6	532
168 12 07	7 G 4	7 × AWG 12	395,0	17,4	737
168 10 03	3 G 6	3 × AWG 10	242,0	16,6	411
168 10 04	4 G 6	4 × AWG 10	316,0	17,5	572
168 10 05	5 G 6	5 × AWG 10	411,0	18,5	732
168 10 07	7 G 6	7 × AWG 10	570,0	20,9	961
168 08 03	3 G 10	3 × AWG 8	416,0	17,2	741
168 08 04	4 G 10	4 × AWG 8	571,0	20,4	988
168 08 05	5 G 10	5 × AWG 8	690,0	22,0	1202
168 08 07	7 G 10	7 × AWG 8	971,0	26,0	1743
168 06 03	3 G 16	3 × AWG 6	660,0	23,6	1088
168 06 04	4 G 16	4 × AWG 6	821,0	25,8	1662
168 06 05	5 G 16	5 × AWG 6	1127,0	29,0	2021
168 06 07	7 G 16	7 × AWG 6	1512,0	32,0	2720
168 04 03	3 G 25	3 × AWG 4	1091,0	28,0	1947
168 04 04	4 G 25	4 × AWG 4	1443,0	30,2	2591
168 04 05	5 G 25	5 × AWG 4	1802,0	34,0	3197
168 04 07	7 G 25	7 × AWG 4	2520,0	39,0	4530
168 02 03	3 G 35	3 × AWG 2	1501,0	30,0	2701
168 02 04	4 G 35	4 × AWG 2	1889,0	32,0	3277
168 02 05	5 G 35	5 × AWG 2	2532,0	37,0	4530

CC-Dreinorm-165

Oil resistant PVC-control cable with approvals
Conforms to the EC low voltage guideline 73/23/EEC

HAR and ®

ConCab kabel Mainhardt 165 4x1,5 QMM H05VV5-F HAR E172073  STYLE 2587 600 V 90°C



Technical data

Rated voltage:

VDE/IEC: 300/500 V

UL: 600 V

Test voltage:

3000 V

Conductor stranding:

fine copper strands

acc. to VDE 0295, class 5

resp. UL-Style 1012

Core insulation:

PVC Type TI2 acc. to VDE 0207, part 4

resp. UL-Style 1012

Outer sheath:

PVC Type YM5 acc. to VDE 0207, part 5

resp. UL-Style 2587

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: HAR -40°C to +70°C

UL -40°C to +90°C

flexible application: HAR -5°C to +70°C

UL -5°C to +90°C

Bending radius:

fixed installation: 5 × cable diameter

flexible application: 15 × cable diameter

Approvals:

VDE 0281, part 13

HD 21.13 S1

UL: Style 2587 VW1

The flexible CC-Dreinorm-165 is especially designed for the North American market. It is used in machine tool, plant and apparatus construction, heating, air conditioning, ventilation technology and for other applications where oil resistance is required acc. to VDE 0281, part 13 resp. HD 21.13 S1 and UL 2587. The PVC outer sheath is also free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers.

Oil resistant PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1 and CSA FT1).
Colour grey (RAL 7001).

ConCab kabel connects the world



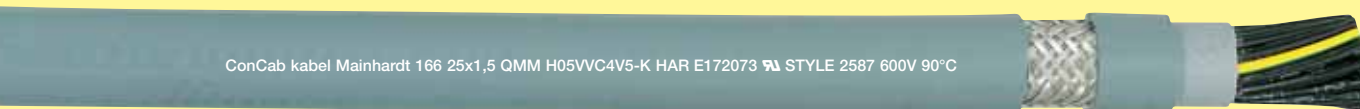
Part-No.	No. of cores + cross-section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
165 0005 002	2 X 0,5	2 × AWG 20	9,6	6,0	47
165 0005 003	3 G 0,5	3 × AWG 20	14,4	6,3	64
165 0005 004	4 G 0,5	4 × AWG 20	19,2	7,1	75
165 0005 005	5 G 0,5	5 × AWG 20	24,0	7,4	91
165 0005 007	7 G 0,5	7 × AWG 20	34,0	9,3	135
165 0005 012	12 G 0,5	12 × AWG 20	58,0	11,6	196
165 0005 018	18 G 0,5	18 × AWG 20	86,4	13,6	273
165 0005 025	25 G 0,5	25 × AWG 20	120,0	16,4	380
165 0005 034	34 G 0,5	34 × AWG 20	164,0	19,5	509
165 0005 041	41 G 0,5	41 × AWG 20	197,0	21,0	596
165 0005 050	50 G 0,5	50 × AWG 20	240,0	23,0	670
165 0005 061	61 G 0,5	61 × AWG 20	293,0	25,0	820
165 0007 002	2 X 0,75	2 × AWG 19	14,4	6,4	52
165 0007 003	3 G 0,75	3 × AWG 19	21,6	6,8	75
165 0007 004	4 G 0,75	4 × AWG 19	29,0	7,4	82
165 0007 005	5 G 0,75	5 × AWG 19	36,0	8,3	113
165 0007 007	7 G 0,75	7 × AWG 19	50,0	9,7	145
165 0007 012	12 G 0,75	12 × AWG 19	86,0	12,3	231
165 0007 018	18 G 0,75	18 × AWG 19	130,0	14,8	338
165 0007 025	25 G 0,75	25 × AWG 19	180,0	17,0	461
165 0007 034	34 G 0,75	34 × AWG 19	245,0	19,1	614
165 0007 041	41 G 0,75	41 × AWG 19	296,0	21,3	730
165 0007 050	50 G 0,75	50 × AWG 19	360,0	23,2	850
165 0010 002	2 X 1,0	2 × AWG 18	19,2	6,8	66
165 0010 003	3 G 1,0	3 × AWG 18	29,0	7,2	78
165 0010 004	4 G 1,0	4 × AWG 18	38,4	7,8	104
165 0010 005	5 G 1,0	5 × AWG 18	48,0	8,8	132
165 0010 007	7 G 1,0	7 × AWG 18	67,0	10,4	183
165 0010 012	12 G 1,0	12 × AWG 18	115,0	13,5	286
165 0010 018	18 G 1,0	18 × AWG 18	173,0	15,5	400
165 0010 025	25 G 1,0	25 × AWG 18	240,0	18,4	569
165 0010 034	34 G 1,0	34 × AWG 18	326,0	20,9	742
165 0010 041	41 G 1,0	41 × AWG 18	392,0	22,7	822
165 0010 050	50 G 1,0	50 × AWG 18	480,0	24,5	1052
165 0010 061	61 G 1,0	61 × AWG 18	586,0	26,0	1265
165 0010 065	65 G 1,0	65 × AWG 18	624,0	28,1	1315
165 0015 002	2 X 1,5	2 × AWG 16	29,0	7,7	90
165 0015 003	3 G 1,5	3 × AWG 16	43,0	8,6	97
165 0015 004	4 G 1,5	4 × AWG 16	58,0	9,3	128
165 0015 005	5 G 1,5	5 × AWG 16	72,0	10,3	168
165 0015 007	7 G 1,5	7 × AWG 16	101,0	12,2	243
165 0015 012	12 G 1,5	12 × AWG 16	173,0	14,9	324
165 0015 018	18 G 1,5	18 × AWG 16	249,0	17,8	485
165 0015 025	25 G 1,5	25 × AWG 16	360,0	21,8	671
165 0015 034	34 G 1,5	34 × AWG 16	490,0	26,0	881
165 0015 041	41 G 1,5	41 × AWG 16	590,0	27,0	1085
165 0015 050	50 G 1,5	50 × AWG 16	720,0	29,5	1381
165 0015 061	61 G 1,5	61 × AWG 16	878,0	31,8	1640
165 0025 002	2 X 2,5	2 × AWG 14	48,0	9,1	110
165 0025 003	3 G 2,5	3 × AWG 14	72,0	9,7	154
165 0025 004	4 G 2,5	4 × AWG 14	96,0	10,8	212
165 0025 005	5 G 2,5	5 × AWG 14	120,0	12,0	242
165 0025 007	7 G 2,5	7 × AWG 14	168,0	14,7	350
165 0025 012	12 G 2,5	12 × AWG 14	288,0	17,8	543
165 0025 018	18 G 2,5	18 × AWG 14	432,0	21,4	787
165 0025 025	25 G 2,5	25 × AWG 14	600,0	26,1	1175



CC-Dreinorm-CY-166

Oil resistant PVC-control cable with approvals, shielded
Conforms to the EC low voltage guideline 73/23/EEC

HAR and 



Technical data

Rated voltage:

VDE/IEC: 300/500 V
UL: 600 V

Test voltage:

3000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
resp. UL-Style 1012

Core insulation:

PVC Typ TI2 acc. to VDE 0207, part 4
resp. UL-Style 1012

Outer sheath:

PVC Typ YM5 acc. to VDE 0207, part 5
resp. UL-Style 2587

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: HAR -40°C to +70°C
UL -40°C to +90°C
flexible application: HAR -5°C to +70°C
UL -5°C to +90°C

Bending radius:

fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:

VDE 0281, part 13
HD 21.13 S1
UL: Style 2587 VW1

The flexible CC-Dreinorm-CY-166 is especially designed for the North American market. It is particularly good as a control, regulating and measuring cable. It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology and for other applications where a greater electromagnetic compatibility (EMC) as well as oil resistance acc. to VDE 0281, part 13 resp. HD 21.13 S1 and UL 2587 are required. The PVC outer sheath is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC inner sheath with overall tinned copper shield. Oil resistant PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1 and CSA FT1). Colour grey (RAL 7001).

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
166 0005 003	3 G 0,5	3 × AWG 20	36,0	9,0	109
166 0005 004	4 G 0,5	4 × AWG 20	42,0	9,6	126
166 0005 005	5 G 0,5	5 × AWG 20	48,0	10,4	156
166 0005 007	7 G 0,5	7 × AWG 20	64,0	12,1	192
166 0005 012	12 G 0,5	12 × AWG 20	105,0	13,5	280
166 0005 018	18 G 0,5	18 × AWG 20	147,0	15,8	384
166 0005 025	25 G 0,5	25 × AWG 20	210,0	20,0	556
166 0005 034	34 G 0,5	34 × AWG 20	298,0	22,4	634
166 0005 041	41 G 0,5	41 × AWG 20	349,0	23,0	770
166 0005 050	50 G 0,5	50 × AWG 20	470,0	25,0	970
166 0005 061	61 G 0,5	61 × AWG 20	530,0	26,8	1072
166 0007 003	3 G 0,75	3 × AWG 19	55,0	9,3	115
166 0007 004	4 G 0,75	4 × AWG 19	67,0	10,2	150
166 0007 005	5 G 0,75	5 × AWG 19	78,0	10,9	184
166 0007 007	7 G 0,75	7 × AWG 19	90,0	12,9	235
166 0007 012	12 G 0,75	12 × AWG 19	166,0	14,3	355
166 0007 018	18 G 0,75	18 × AWG 19	190,0	16,9	488
166 0007 025	25 G 0,75	25 × AWG 19	275,0	21,5	654
166 0007 034	34 G 0,75	34 × AWG 19	400,0	23,7	861
166 0007 041	41 G 0,75	41 × AWG 19	470,0	24,5	970
166 0007 050	50 G 0,75	50 × AWG 19	582,0	26,8	1160
166 0007 061	61 G 0,75	61 × AWG 19	679,0	29,4	1402
166 0010 003	3 G 1,0	3 × AWG 18	62,0	9,9	142
166 0010 004	4 G 1,0	4 × AWG 18	78,0	10,5	175
166 0010 005	5 G 1,0	5 × AWG 18	91,0	11,5	205
166 0010 007	7 G 1,0	7 × AWG 18	118,0	13,6	264
166 0010 012	12 G 1,0	12 × AWG 18	185,0	16,2	420
166 0010 018	18 G 1,0	18 × AWG 18	304,0	18,9	580
166 0010 025	25 G 1,0	25 × AWG 18	370,0	22,4	766
166 0010 034	34 G 1,0	34 × AWG 18	420,0	25,1	996
166 0010 041	41 G 1,0	41 × AWG 18	578,0	26,1	1155
166 0010 050	50 G 1,0	50 × AWG 18	728,0	28,5	1300
166 0010 061	61 G 1,0	61 × AWG 18	883,0	30,1	1500



CC-Dreinorm-CY-166

Oil resistant PVC-control cable with approvals, shielded
Conforms to the EC low voltage guideline 73/23/EEC

HAR and ®

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
166 0015 003	3 G 1,5	3 × AWG 16	83,0	10,9	176
166 0015 004	4 G 1,5	4 × AWG 16	95,0	11,9	235
166 0015 005	5 G 1,5	5 × AWG 16	118,0	13,2	245
166 0015 007	7 G 1,5	7 × AWG 16	170,0	15,7	314
166 0015 012	12 G 1,5	12 × AWG 16	240,0	18,7	500
166 0015 018	18 G 1,5	16 × AWG 16	355,0	21,8	657
166 0015 025	25 G 1,5	25 × AWG 16	498,0	26,8	950
166 0015 034	34 G 1,5	34 × AWG 16	754,0	29,5	1204
166 0015 041	41 G 1,5	41 × AWG 16	805,0	30,7	1453
166 0015 050	50 G 1,5	50 × AWG 16	1033,0	34,0	1663
166 0015 061	61 G 1,5	61 × AWG 16	1238,0	36,5	1852
166 0025 003	3 G 2,5	3 × AWG 14	110,0	12,6	243
166 0025 004	4 G 2,5	4 × AWG 14	143,0	14,0	280
166 0025 005	5 G 2,5	5 × AWG 14	182,0	15,5	342
166 0025 007	7 G 2,5	7 × AWG 14	267,0	18,4	439
166 0025 012	12 G 2,5	12 × AWG 14	409,0	20,6	670
166 0025 018	18 G 2,5	14 × AWG 14	608,0	24,3	1052
166 0025 025	25 G 2,5	25 × AWG 14	897,0	31,3	1375
166 0025 034	34 G 2,5	34 × AWG 14	1179,0	35,0	1892
166 0025 050	50 G 2,5	50 × AWG 14	1660,0	38,5	2673
166 0025 061	61 G 2,5	61 × AWG 14	1992,0	42,0	3085

ConCab kabel connects the world



CC-Multinorm-167

Oil resistant PVC-control cable with approvals
Conforms to the EC low voltage guideline 73/23/EEC

HAR  

ConCab kabel Mainhardt 167 4x1,5 QMM H05VV5-F HAR E172073  STYLE 2587 600V 90°C



Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
resp. UL-Style 1012

Core insulation:
PVC Typ TI2 acc. to VDE 0207, part 4
resp. UL-Style 1012

Outer sheath:
PVC Typ YM5 acc. to VDE 0207, part 5
resp. UL-Style 2587

Insulation resistance:
min. 20 MΩ × km

Temperature range:
fixed installation: HAR -40°C to +70°C
UL/CSA -40°C to +90°C
flexible application: HAR -5°C to +70°C
UL/CSA -5°C to +90°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
VDE 0281, part 13
HD 21.13 S1
UL: Style 2587 VW1
CSA: AWM I A/B, II A/B FT1

The flexible CC-Multinorm-167 is designed for the North American market. It is used in machine tool, plant and apparatus construction, heating, air conditioning, ventilation technology and for other applications where oil resistance is required acc. to VDE 0281, part 13 resp. HD 21.13 S1 and UL 2587. The PVC outer sheath is also free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. Oil resistant, flame retardant and self-extinguishing PVC outer sheath (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1 and CSA FT1). Colour grey (RAL 7001).

ConCab kabel connects the world

CC-Multinorm-167

Oil resistant PVC-control cable with approvals
Conforms to the EC low voltage guideline 73/23/EEC

HAR  

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
167 0005 002	2 X 0,5	2 × AWG 20	9,7	6,0	46
167 0005 003	3 G 0,5	3 × AWG 20	14,4	6,3	54
167 0005 004	4 G 0,5	4 × AWG 20	20,5	7,1	65
167 0005 005	5 G 0,5	5 × AWG 20	24,9	7,4	80
167 0005 007	7 G 0,5	7 × AWG 20	34,0	9,3	119
167 0005 012	12 G 0,5	12 × AWG 20	58,0	11,6	186
167 0005 025	25 G 0,5	25 × AWG 20	120,0	16,4	349
167 0005 034	34 G 0,5	34 × AWG 20	163,2	19,5	480
167 0005 041	41 G 0,5	41 × AWG 20	196,0	21,0	570
167 0007 002	2 X 0,75	2 × AWG 19	14,4	6,3	52
167 0007 003	3 G 0,75	3 × AWG 19	21,6	7,0	75
167 0007 004	4 G 0,75	4 × AWG 19	29,0	7,5	82
167 0007 005	5 G 0,75	5 × AWG 19	36,0	8,3	113
167 0007 007	7 G 0,75	7 × AWG 19	50,0	10,1	145
167 0007 012	12 G 0,75	12 × AWG 19	86,0	12,2	231
167 0007 018	18 G 0,75	18 × AWG 19	130,0	14,3	338
167 0007 025	25 G 0,75	25 × AWG 19	180,0	17,6	461
167 0007 034	34 G 0,75	34 × AWG 19	245,0	19,8	614
167 0007 041	41 G 0,75	41 × AWG 19	296,0	21,5	730
167 0007 050	50 G 0,75	50 × AWG 19	360,0	22,6	850
167 0010 002	2 X 1,0	2 × AWG 18	19,2	6,8	66
167 0010 003	3 G 1,0	3 × AWG 18	29,0	7,2	78
167 0010 004	4 G 1,0	4 × AWG 18	38,4	7,8	104
167 0010 005	5 G 1,0	5 × AWG 18	48,0	8,8	132
167 0010 007	7 G 1,0	7 × AWG 18	67,0	10,4	183
167 0010 012	12 G 1,0	12 × AWG 18	115,0	13,5	286
167 0010 018	18 G 1,0	18 × AWG 18	173,0	15,5	400
167 0010 025	25 G 1,0	25 × AWG 18	240,0	18,4	569
167 0010 034	34 G 1,0	34 × AWG 18	326,0	20,9	742
167 0010 041	41 G 1,0	41 × AWG 18	392,0	22,7	822
167 0010 050	50 G 1,0	50 × AWG 18	480,0	24,5	1052
167 0010 061	61 G 1,0	61 × AWG 18	586,0	26,0	1265
167 0010 065	65 G 1,0	65 × AWG 18	624,0	28,1	1315

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
167 0015 002	2 X 1,5	2 × AWG 16	29,0	7,7	84
167 0015 003	3 G 1,5	3 × AWG 16	43,0	8,6	97
167 0015 004	4 G 1,5	4 × AWG 16	58,0	9,3	118
167 0015 005	5 G 1,5	5 × AWG 16	72,0	10,3	135
167 0015 007	7 G 1,5	7 × AWG 16	101,0	12,2	187
167 0015 012	12 G 1,5	12 × AWG 16	173,0	14,9	316
167 0015 018	18 G 1,5	18 × AWG 16	259,0	17,8	448
167 0015 025	25 G 1,5	25 × AWG 16	360,0	21,8	625
167 0015 034	34 G 1,5	34 × AWG 16	490,0	26,0	865
167 0015 041	41 G 1,5	41 × AWG 16	591,0	27,0	1095
167 0015 050	50 G 1,5	50 × AWG 16	720,0	29,5	1342
167 0015 061	61 G 1,5	61 × AWG 16	878,0	31,8	1600
167 0025 002	2 X 2,5	2 × AWG 14	48,0	9,1	97
167 0025 003	3 G 2,5	3 × AWG 14	72,0	9,7	138
167 0025 004	4 G 2,5	4 × AWG 14	96,0	10,8	177
167 0025 005	5 G 2,5	5 × AWG 14	120,0	12,0	210
167 0025 007	7 G 2,5	7 × AWG 14	168,0	14,7	289
167 0025 012	12 G 2,5	12 × AWG 14	288,0	17,8	566
167 0025 018	18 G 2,5	18 × AWG 14	432,0	21,4	860
167 0025 025	25 G 2,5	25 × AWG 14	600,0	26,1	1173

CC-Multinorm-CY-168

Oil resistant PVC-control cable with approvals, shielded
Conforms to the EC low voltage guideline 73/23/EEC



HAR  

ConCab kabel Mainhardt 168 25 x 1,5 QMM H05VVC4V5-K HAR E172073 cUL STYLE 2587 600V 90°C

Technical data

Rated voltage:

VDE/IEC: 300/500 V

UL/CSA: 600 V

Test voltage:

3000 V

Conductor stranding:

fine copper strands

acc. to VDE 0295, class 5

resp. UL-Style 1012

Core insulation:

PVC Typ TI2 acc. to VDE 0207, part 4

resp. UL-Style 1012

Outer sheath:

PVC Typ YM5 acc. to VDE 0207, part 5

resp. UL-Style 2587

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: HAR -40°C to +70°C

UL/CSA -40°C to +90°C

flexible application: HAR -5°C to +70°C

UL/CSA -5°C to +90°C

Bending radius:

fixed installation: 5 × cable diameter

flexible application: 15 × cable diameter

Approvals:

VDE 0281, part 13

HD 21.13.51

UL: Style 2587 VW1

CSA: AWM I A/B, II A/B FT1

The flexible CC-Multinorm-CY-168 shielded is designed for the North American market. It is particularly used as a control, regulating and measuring cable. It is applied in machine tool, plant and apparatus construction, heating, air conditioning, ventilation technology and for other applications where a greater electromagnetic compatibility is required (EMC) as well as oil resistance acc. to VDE 0281, part 13 resp. HD 21.13 S1 and UL 2587. The PVC outer sheath is also free of silicone, cadmium and of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers. PVC inner sheath with overall tinned copper shield. PVC outer sheath. Oil resistant, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1 and CSA FT1). Colour grey (RAL 7001).

ConCab kabel connects the world

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
168 0005 003	3 G 0,5	3 × AWG 20	36,0	8,5	109
168 0005 004	4 G 0,5	4 × AWG 20	42,0	9,2	126
168 0005 005	5 G 0,5	5 × AWG 20	48,0	10,0	156
168 0005 007	7 G 0,5	7 × AWG 20	64,0	11,4	192
168 0005 012	12 G 0,5	12 × AWG 20	105,0	14,5	280
168 0005 018	18 G 0,5	18 × AWG 20	147,0	16,2	384
168 0005 025	25 G 0,5	25 × AWG 20	210,0	20,0	556
168 0005 034	34 G 0,5	34 × AWG 20	298,0	23,0	634
168 0005 041	41 G 0,5	41 × AWG 20	349,0	24,0	770
168 0005 050	50 G 0,5	50 × AWG 20	470,0	25,5	970
168 0005 061	61 G 0,5	61 × AWG 20	530,0	27,8	1072
168 0007 003	3 G 0,75	3 × AWG 19	55,0	9,3	115
168 0007 004	4 G 0,75	4 × AWG 19	67,0	10,2	150
168 0007 005	5 G 0,75	5 × AWG 19	78,0	10,9	184
168 0007 007	7 G 0,75	7 × AWG 19	90,0	12,9	235
168 0007 012	12 G 0,75	12 × AWG 19	166,0	14,3	355
168 0007 018	18 G 0,75	18 × AWG 19	190,0	16,9	488
168 0007 025	25 G 0,75	25 × AWG 19	275,0	21,5	654
168 0007 034	34 G 0,75	34 × AWG 19	400,0	23,7	861
168 0007 041	41 G 0,75	41 × AWG 19	470,0	24,5	970
168 0007 050	50 G 0,75	50 × AWG 19	582,0	26,8	1160
168 0007 061	61 G 0,75	61 × AWG 19	679,0	29,4	1402
168 0010 003	3 G 1,0	3 × AWG 18	62,0	9,5	142
168 0010 004	4 G 1,0	4 × AWG 18	78,0	10,1	175
168 0010 005	5 G 1,0	5 × AWG 18	91,0	11,1	205
168 0010 007	7 G 1,0	7 × AWG 18	118,0	13,2	264
168 0010 012	12 G 1,0	12 × AWG 18	185,0	16,8	420
168 0010 018	18 G 1,0	18 × AWG 18	304,0	18,0	580
168 0010 025	25 G 1,0	25 × AWG 18	370,0	22,0	766
168 0010 034	34 G 1,0	34 × AWG 18	420,0	25,6	996
168 0010 041	41 G 1,0	41 × AWG 18	578,0	26,6	1155
168 0010 050	50 G 1,0	50 × AWG 18	728,0	28,5	1300
168 0010 061	61 G 1,0	61 × AWG 18	883,0	30,1	1500

CC-Multinorm-CY-168

Oil resistant PVC-control cable with approvals, shielded
Conforms to the EC low voltage guideline 73/23/EEC



HAR  

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
168 0015 003	3 G 1,5	3 × AWG 16	83,0	10,9	176
168 0015 004	4 G 1,5	4 × AWG 16	95,0	11,9	235
168 0015 005	5 G 1,5	5 × AWG 16	118,0	13,2	245
168 0015 007	7 G 1,5	7 × AWG 16	170,0	15,7	314
168 0015 012	12 G 1,5	12 × AWG 16	240,0	18,7	500
168 0015 018	18 G 1,5	16 × AWG 16	355,0	21,8	657
168 0015 025	25 G 1,5	25 × AWG 16	498,0	26,8	950
168 0015 034	34 G 1,5	34 × AWG 16	754,0	29,5	1204
168 0015 041	41 G 1,5	41 × AWG 16	805,0	30,7	1453
168 0015 050	50 G 1,5	50 × AWG 16	1033,0	34,0	1663
168 0015 061	61 G 1,5	61 × AWG 16	1238,0	36,5	1852
168 0025 003	3 G 2,5	3 × AWG 14	110,0	12,6	243
168 0025 004	4 G 2,5	4 × AWG 14	143,0	14,0	280
168 0025 005	5 G 2,5	5 × AWG 14	182,0	15,5	342
168 0025 007	7 G 2,5	7 × AWG 14	267,0	18,4	439
168 0025 012	12 G 2,5	12 × AWG 14	409,0	20,6	670
168 0025 018	18 G 2,5	14 × AWG 14	608,0	24,3	1052
168 0025 025	25 G 2,5	25 × AWG 14	897,0	31,3	1375
168 0025 034	34 G 2,5	34 × AWG 14	1179,0	35,0	1892
168 0025 050	50 G 2,5	50 × AWG 14	1660,0	38,5	2673
168 0025 061	61 G 2,5	61 × AWG 14	1992,0	42,0	3085


ConCab kabel connects the world



CC-control cable-CEI-FR-162

Flame retardant PVC-control cable acc. to Italian standard CEI 20-22II
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 162 5x1,5 CEI-FR 20-22II



The CC-control cable-CEI-FR-162 is especially approved for the Italian market. It is suitable as a control, regulating and measuring cable when free unrestricted movement is required. It has an improved fire characteristics and it used for higher protection of humans and materials in case of fire. It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology and in data processing and transport technological applications. The outer sheath, based on PVC, is extremely resistant to oil and chemicals. It is free of silicone, cadmium and free of harmful substances.

Construction

Fine strands of bare copper wire with PVC core insulation. Up to 5 cores, cores are coloured acc. to VDE 0293 308. 6 cores or more, cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC outer sheath, oil and petrol resistant (acc. to CEI 20-22II) as well as flame retardant and self-extinguishing (acc. to IEC 60332-3).
Colour grey (RAL 7001).

Technical data

Rated voltage:
up to 1,0 mm²: 300/500 V
from 1,5 mm²: 450/750 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to CEI 20-29, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
CEI 20-22II

ConCab kabel connects the world

CC-control cable-CEI-FR-162

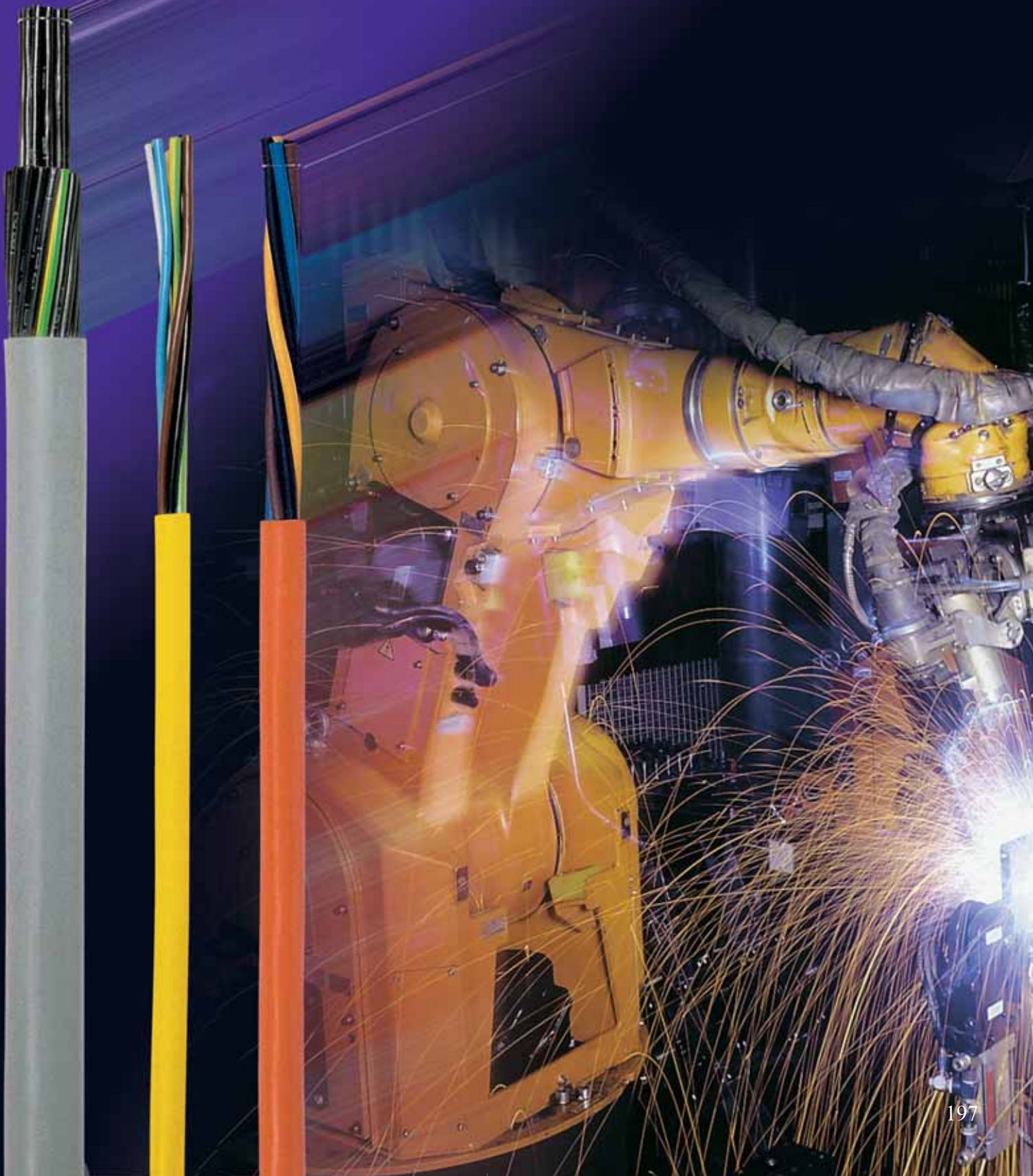
Flame retardant PVC-Control cable acc. to Italian Standard CEI 20-22II
Conforms to the EC low voltage guideline 73/23/EEC

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
162 0010 003	3 G 1,0	29,0	8,5	85	162 0060 004	4 G 6	230,0	16,0	430
162 0010 004	4 G 1,0	39,0	9,5	100					
162 0010 005	5 G 1,0	48,0	10,5	123	162 0100 004	4 G 10	384,0	19,0	700
162 0010 007	7 G 1,0	67,0	10,8	160					
162 0010 012	12 G 1,0	115,0	13,8	270	162 0160 004	4 G 16	614,0	23,0	1000
162 0010 018	18 G 1,0	173,0	16,5	380					
162 0010 025	25 G 1,0	240,0	19,5	500	162 0250 004	4 G 25	960,0	28,0	1550
162 0010 027	27 G 1,0	259,0	20,0	560					
162 0010 033	33 G 1,0	317,0	20,8	700	162 0350 004	4 G 35	1344,0	31,0	2070
162 0010 034	34 G 1,0	326,0	21,0	720					
162 0010 042	42 G 1,0	405,0	23,3	800	162 0500 004	4 G 50	1920,0	37,0	2850
162 0010 050	50 G 1,0	480,0	25,0	1050					
					162 0700 004	4 G 70	2688,0	43,0	4000
162 0015 003	3 G 1,5	43,0	9,6	105					
162 0015 004	4 G 1,5	58,0	11,0	150	162 0950 004	4 G 95	3648,0	50,0	5400
162 0015 005	5 G 1,5	72,0	12,0	190					
162 0015 007	7 G 1,5	101,0	12,5	220					
162 0015 012	12 G 1,5	173,0	16,0	350					
162 0015 018	18 G 1,5	259,0	18,8	515					
162 0015 025	25 G 1,5	360,0	23,0	705					
162 0015 034	34 G 1,5	490,0	26,0	990					
162 0015 037	37 G 1,5	533,0	26,5	1005					
162 0015 042	42 G 1,5	605,0	29,5	1080					
162 0015 050	50 G 1,5	720,0	30,5	1330					
162 0025 003	3 G 2.5	72,0	11,3	190					
162 0025 004	4 G 2.5	96,0	12,3	215					
162 0025 005	5 G 2.5	120,0	12,6	270					
162 0025 007	7 G 2.5	168,0	14,5	350					
162 0025 012	12 G 2.5	288,0	18,0	550					
162 0040 004	4 G 4	154,0	14,0	300					
162 0040 007	7 G 4	269,0	16,0	500					

ConCab kabel connects the world



PUR-control cable



CC-control cable PUR-JZ-141 and PUR-OZ-148

Numbered black cores with / without protective conductor
Conforms to the EC low voltage guideline 73/23/EEC



The flexible CC-control cable PUR-JZ-141 resp. OZ-148 is suitable as a control and signal cable in machine tools, machine and appliance construction. It is designed to be used for interior and exterior applications particularly if in contact with mineral oil and for applications with high mechanical stress.

The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements. CC-control cables PUR are free of lacquer destructive substances (silicone free).

Construction

Fine strands of bare copper wire, PVC core insulation. Cores black with consecutive white numbering. With -JZ, 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PUR outer sheath, non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 12,5 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0282



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
141 0005 002	2 X 0,5	10,0	4,9	32	141 0015 002	2 X 1,5	29,0	6,4	67
141 0005 003	3 G 0,5	15,0	5,2	39	141 0015 003	3 G 1,5	40	6,7	79
148 0005 003	3 X 0,5	witho. gnye	5,2	39	148 0015 003	3 X 1,5	witho. gnye	6,7	79
141 0005 004	4 G 0,5	20,0	5,8	39	141 0015 004	4 G 1,5	58	7,2	98
148 0005 004	4 X 0,5	witho. gnye	5,8	39	148 0015 004	4 X 1,5	witho. gnye	7,2	98
141 0005 005	5 G 0,5	24,0	6,3	59	141 0015 005	5 G 1,5	72	8,1	121
148 0005 005	5 X 0,5	witho. gnye	6,3	59	148 0015 005	5 X 1,5	witho. gnye	8,1	121
141 0005 007	7 G 0,5	33,0	6,8	76	141 0015 007	7 G 1,5	101,0	8,9	173
148 0005 007	7 X 0,5	witho. gnye	6,8	76	141 0015 012	12 G 1,5	173,0	12,3	285
141 0005 010	10 G 0,5	48,0	8,7	109	141 0015 018	18 G 1,5	259,0	14,0	410
141 0005 012	12 G 0,5	57,0	9,0	125	141 0015 025	25 G 1,5	360,0	17,2	586
141 0005 018	18 G 0,5	88,0	10,6	180	141 0015 034	34 G 1,5	490,0	19,9	840
141 0005 025	25 G 0,5	118,0	12,5	250	141 0015 041	41 G 1,5	590,0	22,0	980
141 0005 034	34 G 0,5	161,0	14,4	333					
141 0005 041	41 G 0,5	194,0	15,8	400	141 0025 003	3 G 2,5	72,0	8,3	132
					141 0025 004	4 G 2,5	96,0	9,2	169
141 0007 002	2 X 0,75	14,4	5,6	43	141 0025 005	5 G 2,5	120,0	10,3	210
141 0007 003	3 G 0,75	22,5	5,8	51	141 0025 007	7 G 2,5	168,0	11,3	265
148 0007 003	3 X 0,75	witho. gnye	5,8	51	141 0025 012	12 G 2,5	288,0	15,1	469
141 0007 004	4 G 0,75	29,0	6,6	66					
148 0007 004	4 X 0,75	witho. gnye	6,6	66	141 0040 004	4 G 4	154,0	11,1	269
141 0007 005	5 G 0,75	36,0	7,3	84	141 0040 005	5 G 4	192,0	12,4	317
148 0007 005	5 X 0,75	witho. gnye	7,3	84	141 0040 007	7 G 4	269,0	13,7	391
141 0007 007	7 G 0,75	50,0	8,2	105					
148 0007 007	7 X 0,75	witho. gnye	8,2	105	141 0060 004	4 G 6	230,0	13,2	378
141 0007 012	12 G 0,75	86,0	10,2	180	141 0060 005	5 G 6	288,0	14,8	448
141 0007 018	18 G 0,75	130,0	12,2	260	141 0060 007	7 G 6	403,0	16,3	582
141 0007 025	25 G 0,75	180,0	14,0	340					
141 0007 034	34 G 0,75	236,0	15,9	431	141 0100 004	4 G 10	384,0	16,5	600
141 0007 041	41 G 0,75	284,0	17,4	529	141 0100 005	5 G 10	480,0	18,4	721
141 0010 002	2 X 1,0	19,2	5,8	50	141 0160 004	4 G 16	614,0	21,4	1050
141 0010 003	3 G 1,0	29,0	6,4	64					
148 0010 003	3 X 1,0	witho. gnye	6,4	64					
141 0010 004	4 G 1,0	38,4	6,9	78					
148 0010 004	4 X 1,0	witho. gnye	6,9	78					
141 0010 005	5 G 1,0	48,0	7,5	100					
148 0010 005	5 X 1,0	witho. gnye	7,5	100					
141 0010 007	7 G 1,0	67,0	8,3	129					
141 0010 009	9 G 1,0	86,4	9,1	185					
141 0010 012	12 G 1,0	115,0	11,0	220					
141 0010 018	18 G 1,0	173,0	13,0	310					
141 0010 025	25 G 1,0	240,0	15,3	425					
141 0010 034	34 G 1,0	336,0	17,1	532					
141 0010 041	41 G 1,0	393,0	18,8	638					

CC-Zweinorm PUR-141

Oil resistant PUR-control cable with approvals
Conforms to the EC low voltage guideline 73/23/EEC



ConCab kabel Mainhardt 141 34x1,5 QMM E172073 cUL AWM STYLE 20234 600V 80°C

The oil resistant CC-control cable PUR-141 UL/CSA is designed especially for the North American market as a control cable applied in machine tool, machine and apparatus construction. It is designed to be used indoors and outdoors and is particularly suitable where aggressive substances like mineral oil occur and for applications with high mechanical stress. The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements. CC-control cables PUR are free of lacquer destructive substances (silicone free).

Construction

Fine strands of bare copper wire, PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers, fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +80°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 12,5 × cable diameter

Approvals:
acc. to VDE 0250, 0282
UL: Style 10012/20234
CSA: AWM II A/B FT1

Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
141 20 02	2 X 0,5	2 × AWG 20	9,6	6,2	52
141 20 03	3 G 0,5	3 × AWG 20	14,4	6,5	58
141 20 04	4 G 0,5	4 × AWG 20	19,2	7,0	70
141 20 05	5 G 0,5	5 × AWG 20	24,0	7,6	80
141 20 07	7 G 0,5	7 × AWG 20	34,0	8,2	100
141 20 09	9 G 0,5	9 × AWG 20	43,2	9,7	121
141 20 12	12 G 0,5	12 × AWG 20	58,0	10,6	146
141 20 18	18 G 0,5	18 × AWG 20	86,4	12,3	205
141 20 25	25 G 0,5	25 × AWG 20	120,0	14,8	262
141 19 02	2 X 0,75	2 × AWG 19	14,4	6,8	60
141 19 03	3 G 0,75	3 × AWG 19	21,6	7,2	71
141 19 04	4 G 0,75	4 × AWG 19	28,8	7,7	86
141 19 05	5 G 0,75	5 × AWG 19	36,0	8,3	105
141 19 07	7 G 0,75	7 × AWG 19	50,4	9,0	126
141 19 09	9 G 0,75	9 × AWG 19	64,8	10,5	149
141 19 12	12 G 0,75	12 × AWG 19	86,4	11,5	178
141 19 18	18 G 0,75	18 × AWG 19	129,6	13,4	254
141 19 25	25 G 0,75	25 × AWG 19	180,0	15,9	337
141 18 02	2 X 1,0	2 × AWG 18	19,2	7,0	67
141 18 03	3 G 1,0	3 × AWG 18	29,0	7,4	77
141 18 04	4 G 1,0	4 × AWG 18	38,4	7,9	95
141 18 05	5 G 1,0	5 × AWG 18	48,0	8,6	112
141 18 07	7 G 1,0	7 × AWG 18	67,2	9,3	137
141 18 09	9 G 1,0	9 × AWG 18	86,4	11,0	171
141 18 12	12 G 1,0	12 × AWG 18	115,0	12,1	213
141 18 18	18 G 1,0	18 × AWG 18	173,0	14,3	302
141 18 25	25 G 1,0	25 × AWG 18	240,0	17,0	394
141 18 34	34 G 1,0	34 × AWG 18	326,4	19,7	543
141 18 41	41 G 1,0	41 × AWG 18	393,6	21,6	624
141 18 50	50 G 1,0	50 × AWG 18	480,0	23,0	726
141 16 02	2 X 1,5	2 × AWG 16	29,0	7,6	79
141 16 03	3 G 1,5	3 × AWG 16	43,2	8,0	94
141 16 04	4 G 1,5	4 × AWG 16	58,0	8,7	115
141 16 05	5 G 1,5	5 × AWG 16	72,0	9,4	135
141 16 07	7 G 1,5	7 × AWG 16	101,0	10,7	170
141 16 09	9 G 1,5	9 × AWG 16	130,0	12,0	211
141 16 12	12 G 1,5	12 × AWG 16	173,0	13,3	266
141 16 18	18 G 1,5	18 × AWG 16	261,0	15,5	378
141 16 25	25 G 1,5	25 × AWG 16	363,0	18,5	499
141 16 41	41 G 1,5	41 × AWG 16	594,0	24,0	795
141 16 50	50 G 1,5	50 × AWG 16	720,0	25,1	955
141 14 02	2 X 2.5	2 × AWG 14	48,0	8,6	98
141 14 03	3 G 2.5	3 × AWG 14	72,0	9,1	113
141 14 04	4 G 2.5	4 × AWG 14	96,0	9,9	150
141 14 05	5 G 2.5	5 × AWG 14	120,0	10,8	179
141 14 07	7 G 2.5	7 × AWG 14	168,0	11,7	231
141 14 09	9 G 2.5	9 × AWG 14	216,0	13,9	289
141 14 12	12 G 2.5	12 × AWG 14	288,0	15,3	353
141 14 18	18 G 2.5	18 × AWG 14	432,0	17,9	530



CC-control cable PUR-C-JZ-142 and PUR-C-OZ-144

Numbered black cores, shielded
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 142 25x1,5 JZ-C

The flexible CC-control cable PUR-C-JZ-142 resp. OZ-144 are suitable as control cables in machine tool, machine and appliance construction. They are designed to be used for interior and exterior applications particularly if in contact with mineral oil and for applications with high mechanical stress. The copper shield protects against any electrical interference.

The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements. CC-control cables PUR are free of lacquer destructive substances (silicone free).

Construction

Fine strands of bare copper wire, PVC core insulation. Cores black with consecutive white numbering. Type-JZ, 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC inner sheath with overall tinned copper shield and fleece. PUR outer sheath, non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to + 80°C
flexible application: -5°C to + 70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 12,5 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0282

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
142 0005 002	2 X 0,5	41,0	6,4	67	142 0015 002	2 X 1,5	75,0	8,5	118
142 0005 003	3 G 0,5	45,5	7,0	56	142 0015 003	3 G 1,5	84,0	8,9	131
142 0005 004	4 G 0,5	55,0	7,5	95	144 0015 003	3 X 1,5	witho. gnye	8,9	131
142 0005 005	5 G 0,5	66,0	8,3	105	142 0015 004	4 G 1,5	100,0	9,6	165
142 0005 007	7 G 0,5	80,5	9,5	135	144 0015 004	4 X 1,5	witho. gnye	9,6	165
142 0005 012	12 G 0,5	138,5	11,5	200	142 0015 005	5 G 1,5	125,0	10,5	193
142 0005 018	18 G 0,5	180,0	13,0	280	144 0015 005	5 X 1,5	witho. gnye	10,5	193
142 0005 025	25 G 0,5	251,0	16,0	410	142 0015 007	7 G 1,5	196,0	11,7	238
142 0005 034	34 G 0,5	395,0	17,0	590	144 0015 007	7 X 1,5	witho. gnye	11,7	238
142 0005 041	41 G 0,5	351,0	19,2	670	142 0015 012	12 G 1,5	280,0	15,0	401
					142 0015 018	18 G 1,5	392,0	17,8	544
142 0007 002	2 X 0,75	45,0	7,3	85	142 0015 025	25 G 1,5	572,0	20,6	748
142 0007 003	3 G 0,75	57,9	7,8	100	142 0015 034	34 G 1,5	722,0	23,2	955
144 0007 003	3 X 0,75	witho. gnye	7,8	100	142 0015 041	41 G 1,5	850,0	25,7	1123
142 0007 004	4 G 0,75	64,0	8,3	115					
144 0007 004	4 X 0,75	witho. gnye	8,3	115	142 0025 003	3 G 2.5	146,0	10,6	203
142 0007 005	5 G 0,75	77,4	8,9	132	142 0025 004	4 G 2.5	173,0	11,9	241
144 0007 005	5 X 0,75	witho. gnye	8,9	132	142 0025 005	5 G 2.5	200,0	13,0	295
142 0007 007	7 G 0,75	102,0	9,9	169	142 0025 007	7 G 2.5	288,0	14,9	371
144 0007 007	7 X 0,75	witho. gnye	9,9	169	142 0025 012	12 G 2.5	477,3	18,2	584
142 0007 012	12 G 0,75	138,0	12,2	245					
142 0007 018	18 G 0,75	243,0	14,6	356	142 0040 004	4 G 4	237,0	14,2	385
142 0007 025	25 G 0,75	324,0	17,1	465	142 0040 005	5 G 4	307,0	15,7	480
142 0007 034	34 G 0,75	431,0	18,7	601					
142 0007 041	41 G 0,75	425,0	21,0	728	142 0060 004	4 G 6	350,0	15,5	463
					142 0060 005	5 G 6	441,0	17,8	630
142 0010 002	2 X 1,0	56,0	8,0	99					
142 0010 003	3 G 1,0	77,0	8,3	115	142 0100 004	4 G 10	558,0	19,3	850
144 0010 003	3 X 1,0	witho. gnye	8,3	115					
142 0010 004	4 G 1,0	78,1	8,8	132	142 0160 004	4 G 16	810,0	22,8	1380
144 0010 004	4 X 1,0	witho. gnye	8,8	132					
142 0010 005	5 G 1,0	89,4	9,7	160					
142 0010 007	7 G 1,0	120,0	11,2	186					
142 0010 012	12 G 1,0	192,0	13,6	310					
142 0010 018	18 G 1,0	289,0	16,2	418					
142 0010 025	25 G 1,0	393,0	19,0	545					
142 0010 034	34 G 1,0	532,0	21,3	741					
142 0010 041	41 G 1,0	590,0	23,0	865					

CC-Zweinorm PUR-C-142

Oil resistant PUR-control cable with approvals, shielded
Conforms to the EC low voltage guideline 73/23/EEC



ConCab kabel Mainhardt 142 25x1,5 QMM E172073 c91 AWM STYLE 20234 600V 80°C

The oil resistant shielded CC-control cable PUR-C-142 UL/CSA is designed especially for the North American market as a control cable applied in machine tool, machine and apparatus construction. It is designed to be used indoors and outdoors and is particularly suitable where aggressive substances like mineral oil occur and for applications with high mechanical stress. The copper shield protects against electrical interference. The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements. CC-control cables PUR are free of lacquer destructive substances (silicone free).

Construction

Fine strands of bare copper wire with PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. Fleece, tinned drain wire, tinned copper shield. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:

VDE/IEC: 300/500V
UL/CSA: 600V

Test voltage:

3000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +80°C

Bending radius:

fixed installation: 5 × cable diameter
flexible application: 12,5 × cable diameter

Approvals:

acc. to VDE 0250, 0280
UL-Style 10012/20234
CSA: AWM II A/B FT1

Part-No.	No. of cores + cross-section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
142 20 02	2 X 0,5	2 × AWG 20	22,6	7,0	68
142 20 03	3 G 0,5	3 × AWG 20	27,9	7,3	83
142 20 04	4 G 0,5	4 × AWG 20	34,8	7,8	97
142 20 05	5 G 0,5	5 × AWG 20	41,8	8,4	109
142 20 07	7 G 0,5	7 × AWG 20	52,1	9,0	126
142 20 09	9 G 0,5	9 × AWG 20	66,0	10,4	153
142 20 12	12 G 0,5	12 × AWG 20	83,1	11,3	173
142 20 18	18 G 0,5	18 × AWG 20	131,8	13,2	244
142 20 25	25 G 0,5	25 × AWG 20	174,9	15,5	318
142 19 02	2 X 0,75	2 × AWG 19	28,2	7,4	80
142 19 03	3 G 0,75	3 × AWG 19	36,3	7,8	95
142 19 04	4 G 0,75	4 × AWG 19	45,3	8,3	110
142 19 05	5 G 0,75	5 × AWG 19	54,1	8,9	125
142 19 07	7 G 0,75	7 × AWG 19	70,5	9,6	150
142 19 09	9 G 0,75	9 × AWG 19	89,4	11,1	181
142 19 12	12 G 0,75	12 × AWG 19	113,7	12,1	218
142 19 18	18 G 0,75	18 × AWG 19	179,3	14,2	301
142 19 25	25 G 0,75	25 × AWG 19	240,7	16,7	391
142 18 02	2 X 1,0	2 × AWG 18	33,6	7,6	91
142 18 03	3 G 1,0	3 × AWG 18	44,5	8,0	106
142 18 04	4 G 1,0	4 × AWG 18	56,1	8,5	122
142 18 05	5 G 1,0	5 × AWG 18	68,0	9,2	140
142 18 07	7 G 1,0	7 × AWG 18	88,4	9,9	173
142 18 09	9 G 1,0	9 × AWG 18	112,1	11,5	208
142 18 12	12 G 1,0	12 × AWG 18	143,8	12,7	263
142 18 18	18 G 1,0	18 × AWG 18	224,4	14,9	357
142 18 25	25 G 1,0	25 × AWG 18	301,0	17,6	463
142 18 34	34 G 1,0	34 × AWG 18	421,7	20,5	635
142 18 41	41 G 1,0	41 × AWG 18	504,7	22,1	746
142 18 50	50 G 1,0	50 × AWG 18	592,4	23,8	893
142 16 02	2 X 1,5	2 × AWG 16	45,0	8,2	107
142 16 03	3 G 1,5	3 × AWG 16	60,9	8,6	122
142 16 04	4 G 1,5	4 × AWG 16	77,6	9,3	143
142 16 05	5 G 1,5	5 × AWG 16	93,5	10,0	167
142 16 07	7 G 1,5	7 × AWG 16	124,5	10,8	204
142 16 09	9 G 1,5	9 × AWG 16	158,3	12,6	251
142 16 12	12 G 1,5	12 × AWG 16	221,0	14,0	321
142 16 18	18 G 1,5	18 × AWG 16	317,4	16,2	438
142 16 25	25 G 1,5	25 × AWG 16	454,3	19,4	570
142 16 41	41 G 1,5	41 × AWG 16	714,4	25,0	957
142 16 50	50 G 1,5	50 × AWG 16	845,7	25,9	1116
142 14 02	2 X 2,5	2 × AWG 14	68,0	9,2	125
142 14 03	3 G 2,5	3 × AWG 14	92,1	9,7	152
142 14 04	4 G 2,5	4 × AWG 14	118,8	10,5	185
142 14 05	5 G 2,5	5 × AWG 14	145,5	11,4	216
142 14 07	7 G 2,5	7 × AWG 14	196,3	12,3	271
142 14 09	9 G 2,5	9 × AWG 14	267,5	14,7	336
142 14 12	12 G 2,5	12 × AWG 14	396,9	16,1	427
142 14 18	18 G 2,5	18 × AWG 14	526,1	18,1	582

CC-control cable PUR-JZ-143

Numbered black cores, flame retardant
Conforms to the EC low voltage guideline 73/23/EEC



The flexible CC-control cable PUR-JZ-143 is suitable as a control cable in machine tool, machine and appliance construction. It is designed to be used for interior and exterior applications particularly if in contact with mineral oil and for applications with high mechanical stress. The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements. CC-control cables PUR are free of lacquer destructive substances (silicone free).

Construction

Fine strands of bare copper wire, PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 M Ω × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 12,5 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0282

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
143 0005 002	2 X 0,5	10,0	4,9	32	141 0015 002	2 X 1,5	29,0	6,4	67
143 0005 0033	G 0,5	15,0	5,2	39	141 0015 003	3 G 1,5	40	6,7	79
143 0005 004	4 G 0,5	20,0	5,8	39	141 0015 004	4 G 1,5	58	7,2	98
143 0005 005	5 G 0,5	24,0	6,3	59	141 0015 005	5 G 1,5	72	8,1	121
143 0005 007	7 G 0,5	33,0	6,8	76	141 0015 007	7 G 1,5	101,0	8,9	173
143 0005 012	12 G 0,5	57,0	9,0	125	141 0015 012	12 G 1,5	173,0	12,3	285
143 0005 018	18 G 0,5	88,0	10,6	180	141 0015 018	18 G 1,5	259,0	14,0	410
143 0005 025	25 G 0,5	118,0	12,5	250	141 0015 025	25 G 1,5	360,0	17,2	586
143 0005 034	34 G 0,5	161,0	14,4	333	141 0015 034	34 G 1,5	490,0	19,9	840
					141 0015 041	41 G 1,5	590,0	22,0	980
143 0007 002	2 X 0,75	14,4	5,6	43					
143 0007 003	3 G 0,75	22,5	5,8	51	141 0025 003	3 G 2,5	72,0	8,3	132
143 0007 004	4 G 0,75	29,0	6,6	66	141 0025 004	4 G 2,5	96,0	9,2	169
143 0007 005	5 G 0,75	36,0	7,3	84	141 0025 005	5 G 2,5	120,0	10,3	210
143 0007 007	7 G 0,75	50,0	8,2	105	141 0025 007	7 G 2,5	168,0	11,3	265
143 0007 012	12 G 0,75	86,0	10,2	180	141 0025 012	12 G 2,5	288,0	15,1	469
143 0007 018	18 G 0,75	130,0	12,2	260					
143 0007 025	25 G 0,75	180,0	14,0	340	141 0040 004	4 G 4	154,0	11,1	269
143 0007 034	34 G 0,75	236,0	15,9	431	141 0040 005	5 G 4	192,0	12,4	317
143 0007 041	41 G 0,75	284,0	17,4	529	141 0040 007	7 G 4	269,0	13,7	391
143 0010 002	2 X 1,0	19,2	5,8	50	141 0060 004	4 G 6	230,0	13,2	378
143 0010 003	3 G 1,0	29,0	6,4	64	141 0060 005	5 G 6	288,0	14,8	448
143 0010 004	4 G 1,0	38,4	6,9	78	141 0060 007	7 G 6	403,0	16,3	582
143 0010 005	5 G 1,0	48,0	7,5	100					
143 0010 007	7 G 1,0	67,0	8,3	129	141 0100 004	4 G 10	384,0	16,5	600
143 0010 012	12 G 1,0	115,0	11,0	220	141 0100 005	5 G 10	480,0	18,4	721
143 0010 018	18 G 1,0	173,0	13,0	310					
143 0010 025	25 G 1,0	240,0	15,3	425					
143 0010 034	34 G 1,0	336,0	17,1	532	141 0160 004	4 G 16	614,0	21,4	1050
143 0010 041	41 G 1,0	393,0	18,8	638					



CC-control cable PUR-C-JZ-152

Numbered black cores, flame retardant, shielded
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 152 25x1,5 JZ-C

The flexible CC-control cable PUR-C-JZ-152 is suitable as a control cable in machine tool, machine and appliance construction. It is designed to be used for interior and exterior applications particularly if in contact with mineral oil and for application with high mechanical stress. The copper shield protects against any electrical interference. The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements. CC-control cables PUR are free of lacquer destructive substances (silicone free).

Construction

Fine strands of bare copper wire, PVC core insulation. Cores black with consecutive white numbering. 3 cores or more with protective green/yellow conductor in the outer layer. Cores twisted in layers. PVC inner sheath with overall tinned copper shield and fleece. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1), non-adhesive, resistant to hydrolysis and microbes. Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to + 80°C
flexible application: -5°C to + 70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 12,5 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0282

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
152 0005 002	2 X 0,5	41,0	6,4	67	152 0015 002	2 X 1,5	75,0	8,5	118
152 0005 003	3 G 0,5	45,5	7,0	56	152 0015 003	3 G 1,5	84,0	8,9	131
152 0005 004	4 G 0,5	55,0	7,5	95	152 0015 004	4 G 1,5	100,0	9,6	165
152 0005 005	5 G 0,5	66,0	8,3	105	152 0015 005	5 G 1,5	125,0	10,5	193
152 0005 007	7 G 0,5	80,5	9,5	135	152 0015 007	7 G 1,5	196,0	11,7	238
152 0005 012	12 G 0,5	138,5	11,5	200	152 0015 012	12 G 1,5	280,0	15,0	401
152 0005 018	18 G 0,5	180,0	13,0	280	152 0015 018	18 G 1,5	392,0	17,8	544
152 0005 025	25 G 0,5	251,0	16,0	410	152 0015 025	25 G 1,5	572,0	20,6	748
					152 0015 034	34 G 1,5	722,0	23,2	955
152 0007 002	2 X 0,75	45,0	7,3	85	152 0015 041	41 G 1,5	850,0	25,7	1123
152 0007 003	3 G 0,75	57,9	7,8	100					
152 0007 004	4 G 0,75	64,0	8,3	115	152 0025 003	3 G 2,5	146,0	10,6	203
152 0007 005	5 G 0,75	77,4	8,9	132	152 0025 004	4 G 2,5	173,0	11,9	241
152 0007 007	7 G 0,75	102,0	9,9	169	152 0025 005	5 G 2,5	200,0	13,0	295
152 0007 012	12 G 0,75	138,0	12,2	245	152 0025 007	7 G 2,5	288,0	14,9	371
152 0007 018	18 G 0,75	243,0	14,6	356	152 0025 012	12 G 2,5	477,3	18,2	584
152 0007 025	25 G 0,75	324,0	17,1	465					
					152 0040 004	4 G 4	237,0	14,2	385
152 0010 002	2 X 1,0	56,0	8,0	99	152 0040 005	5 G 4	307,0	15,7	480
152 0010 003	3 G 1,0	77,0	8,3	115					
152 0010 004	4 G 1,0	78,1	8,8	132	152 0060 004	4 G 6	350,0	15,5	463
152 0010 005	5 G 1,0	89,4	9,7	160	152 0060 005	5 G 6	441,0	17,8	630
152 0010 007	7 G 1,0	120,0	11,2	186					
152 0010 012	12 G 1,0	192,0	13,6	310	152 0100 004	4 G 10	558,0	19,3	850
152 0010 018	18 G 1,0	289,0	16,2	418					
152 0010 025	25 G 1,0	393,0	19,0	545	152 0160 004	4 G 16	810,0	22,8	1380
152 0010 034	34 G 1,0	532,0	21,3	741					
152 0010 041	41 G 1,0	590,0	23,0	865					

CC-control cable yellow PUR-JB-147

Coloured cores with / without protective conductor
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 147 5x1,5 JB



The oil resistant CC-PUR-JB-147 is suitable as a control cable and safety cable applied in machine tool, connection and extension cable for hand-held devices. It is designed to be used indoors and outdoors and is particularly suitable where aggressive substances like mineral oil occur or when it has to undergo rough mechanical abrasion.

The polyurethane outer sheath fulfils the highest demands of wear and tear as well as impact requirements.

Construction

Fine strands of bare copper wire with PVC core insulation.

Coloured cores acc. to VDE 0293 or VDE 0293 308. Cores twisted in layers. PUR outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Colour grey (RAL 1016).

Other sheath colours available on request.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 10 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0282

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
147 0010 002	2 X 1,0	19,0	7,1	67
147 0010 003	3 G 1,0	29,0	7,6	81
147 0015 003	3 G 1,5	43,0	9,2	120
147 0015 004	4 G 1,5	58,0	10,2	160
147 0015 005	5 G 1,5	72,0	10,9	179
147 0025 003	3 G 2,5	72,0	10,8	186
147 0025 005	5 G 2,5	96,0	13,6	251

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CC-appliance link-up cable H05BQ-F-140 H07BQ-F-140

EPR insulation, flexible cable, polyurethane sheath
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 140 5x1,5 H07BQ-F



The CC-appliance link-up cable H05BQ-F-140 resp. H07BQ-F-140 is suitable as a link-up cable for electrical tools, heating appliances, lights, transportable building site machines and similar ones for agriculture, shipyards and container railway stations. The polyurethane sheath is resistant to cutting and abrasion. It can be used in dry, damp and wet rooms as well as outside. It is extremely resistant to oils, fats, acids and alkalines.

Construction

Fine strands of bare copper wire with rubber core insulation. Coloured cores acc.to VDE 0293 308. Cores twisted in layers. Weather resistant PUR outer sheath. Colour orange (RAL 2003).

Technical data

Rated voltage:

H05BQ-F: 300/500 V
H07BQ-F: 450/750 V

Test voltage:

H05BQ-F: 2000 V
H07BQ-F: 2500 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -50°C to +80°C
flexible application: -40°C to +80°C

Bending radius:

fixed installation: 5 × cable diameter
flexible application: 12 × cable diameter

Approvals:

VDE 0282, part 10

ConCab kabel connects the world

CC-appliance link-up cable H05BQ-F-140 H07BQ-F-140

EPR insulation, flexible cable, polyurethane sheath
Conforms to the EC low voltage guideline 73/23/EEC

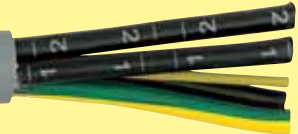
Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
140 0007 002	2 X 0,75	14,4	5,7 - 7,4	60
140 0007 003	3 G 0,75	21,6	6,2 - 8,1	70
140 0007 004	4 G 0,75	29,0	6,8 - 8,8	85
140 0007 005	5 G 0,75	36,0	7,6 - 9,9	105
140 0010 002	2 X 1,0	19,2	6,1 - 8,0	70
140 0010 003	3 G 1,0	29,0	6,5 - 8,5	80
140 0010 004	4 G 1,0	38,4	7,1 - 9,3	100
140 0010 005	5 G 1,0	48,0	8,0 - 10,3	120
140 0015 002	2 X 1,5	29,0	7,6 - 9,8	97
140 0015 003	3 G 1,5	43,0	8,0 - 10,4	120
140 0015 004	4 G 1,5	58,0	9,0 - 11,6	150
140 0015 005	5 G 1,5	72,0	9,8 - 12,7	180
140 0025 002	2 X 2.5	48,0	9,0 - 11,6	110
140 0025 003	3 G 2.5	72,0	9,6 - 12,4	175
140 0025 004	4 G 2.5	96,0	10,7 - 13,8	230
140 0025 005	5 G 2.5	120,0	11,9 - 15,3	280
140 0040 002	2 X 4	77,0	10,6 - 13,7	196
140 0040 003	3 G 4	115,0	11,3 - 14,5	225
140 0040 004	4 G 4	154,0	12,7 - 16,2	320
140 0040 005	5 G 4	192,0	14,1 - 17,9	420
140 0060 002	2 X 6	115,0	11,8 - 15,1	315
140 0060 003	3 G 6	173,0	12,8 - 16,3	325
140 0060 004	4 G 6	230,0	14,2 - 18,1	495
140 0060 005	5 G 6	288,0	15,7 - 20,0	585
140 0100 002	2 X 10	192,0	15,6 - 19,9	430
140 0100 003	3 G 10	288,0	16,8 - 21,4	640
140 0100 004	4 G 10	384,0	18,6 - 23,6	735
140 0100 005	5 G 10	480,0	20,4 - 25,9	970
140 0160 002	2 X 16	615,0	17,9 - 22,8	600
140 0160 003	3 G 16	461,0	19,5 - 24,7	760
140 0160 004	4 G 16	615,0	21,3 - 27,0	1185
140 0160 005	5 G 16	768,0	23,7 - 30,0	1475



CC-control cable H-1110

Halogen-free, numbered black cores
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 1110 4x1,5 JZ halogen-free



The CC-control cable H-1110 is suitable as a control, regulating and measuring cable where free, unrestricted movement is required. It is used in machine tool, plant and apparatus construction, heating, air conditioning and ventilation technology and for other applications in electrical equipment particularly where there is an increased demand for protection against fire for humans, goods and premises.

Construction

Fine strands of bare copper wire with halogen-free polymere mixture insulation.
Cores black with consecutive white numbering.
3 cores or more with protective green/yellow conductor in the outer layer.
Cores twisted in layers. Outer sheath of halogen-free polymere mixture, flame retardant (acc. to IEC 60332-3).
Colour grey (RAL 7035 or 7001).

Technical data

Rated voltage:
300/500V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0245, 0250
0281, 0282
CEI: 20.22

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CC-control cable H-1110

Halogen-free, numbered black cores
Conforms to the EC low voltage guideline 73/23/EEC

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
1 110 0005 002 5	2 X 0,5	9,6	4,8	40	1 110 0010 002 5	2 X 1,0	19,2	5,7	57
1 110 0005 003 5	3 G 0,5	14,4	5,1	47	1 110 0010 003 5	3 G 1,0	29,0	6,0	73
1 112 0005 003 5	3 X 0,5	witho.gnye	5,1	47	1 112 0010 003 5	3 X 1,0	witho.gnye	6,0	73
1 110 0005 004 5	4 G 0,5	19,2	5,7	57	1 110 0010 004 5	4 G 1,0	38,4	6,5	85
1 112 0005 004 5	4 X 0,5	witho.gnye	5,7	57	1 112 0010 004 5	4 X 1,0	witho.gnye	6,5	85
1 110 0005 005 5	5 G 0,5	24,0	6,2	66	1 110 0010 005 5	5 G 1,0	48,0	7,1	101
1 112 0005 005 5	5 X 0,5	witho.gnye	6,2	66	1 112 0010 005 5	5 X 1,0	witho.gnye	7,1	101
1 110 0005 007 5	7 G 0,5	34,0	6,7	85	1 110 0010 007 5	7 G 1,0	67,0	8,0	131
1 112 0005 007 5	7 X 0,5	witho.gnye	6,7	85	1 112 0010 007 5	7 X 1,0	witho.gnye	8,0	131
1 110 0005 008 5	8 G 0,5	38,4	8,0	96	1 110 0010 008 5	8 G 1,0	77,0	9,5	146
1 110 0005 010 5	10 G 0,5	48,0	8,6	117	1 110 0010 010 5	10 G 1,0	96,0	10,2	193
1 110 0005 012 5	12 G 0,5	58,0	8,9	133	1 110 0010 012 5	12 G 1,0	115,0	10,5	220
1 110 0005 018 5	18 G 0,5	86,4	10,5	209	1 110 0010 016 5	16 G 1,0	154,0	11,8	291
1 110 0005 020 5	20 G 0,5	96,0	11,4	266	1 110 0010 018 5	18 G 1,0	173,0	12,7	315
1 110 0005 025 5	25 G 0,5	120,0	12,4	296	1 110 0010 020 5	20 G 1,0	192,0	13,4	347
1 110 0005 030 5	30 G 0,5	144,0	13,3	324	1 110 0010 025 5	25 G 1,0	240,0	14,7	449
1 110 0005 034 5	34 G 0,5	163,2	14,5	370	1 110 0010 034 5	34 G 1,0	326,0	17,1	551
					1 110 0010 041 5	41 G 1,0	394,0	21,4	815
1 110 0007 002 5	2 X 0,75	14,4	5,4	50	1 110 0010 042 5	42 G 1,0	403,0	21,4	815
1 110 0007 003 5	3 G 0,75	21,6	5,7	60	1 110 0010 050 5	50 G 1,0	480,0	24,0	895
1 112 0007 003 5	3 X 0,75	witho.gnye	5,7	60	1 110 0010 061 5	61 G 1,0	586,0	25,5	1005
1 110 0007 004 5	4 G 0,75	29,0	6,2	73	1 110 0010 065 5	65 G 1,0	624,0	27,1	1170
1 112 0007 004 5	4 X 0,75	witho.gnye	6,2	73					
1 110 0007 005 5	5 G 0,75	36,0	6,7	88	1 110 0015 002 5	2 X 1,5	29,0	6,3	77
1 112 0007 005 5	5 X 0,75	witho.gnye	6,7	88	1 110 0015 003 5	3 G 1,5	43,0	6,7	95
1 110 0007 007 5	7 G 0,75	50,0	7,3	109	1 112 0015 003 5	3 X 1,5	witho.gnye	6,7	95
1 112 0007 007 5	7 X 0,75	witho.gnye	7,3	109	1 110 0015 004 5	4 G 1,5	58,0	7,2	117
1 110 0007 009 5	9 G 0,75	64,8	9,4	162	1 112 0015 004 5	4 X 1,5	witho.gnye	7,2	117
1 110 0007 010 5	10 G 0,75	72,0	9,6	145	1 110 0015 005 5	5 G 1,5	72,0	8,1	144
1 110 0007 012 5	12 G 0,75	86,0	9,9	190	1 112 0015 005 5	5 X 1,5	witho.gnye	8,1	144
1 110 0007 016 5	16 G 0,75	115,0	11,1	226	1 110 0015 007 5	7 G 1,5	101,0	8,9	174
1 110 0007 018 5	18 G 0,75	130,0	11,7	268	1 112 0015 007 5	7 X 1,5	witho.gnye	8,9	174
1 110 0007 020 5	20 G 0,75	144,0	12,6	286	1 110 0015 008 5	8 G 1,5	115,0	10,6	205
1 110 0007 025 5	25 G 0,75	180,0	13,8	324	1 110 0015 010 5	10 G 1,5	144,0	11,6	260
1 110 0007 034 5	34 G 0,75	245,0	15,9	520	1 110 0015 012 5	12 G 1,5	173,0	12,0	307
					1 110 0015 016 5	16 G 1,5	230,0	13,4	397
					1 110 0015 018 5	18 G 1,5	259,0	14,4	465
					1 110 0015 020 5	20 G 1,5	288,0	15,4	535
					1 110 0015 025 5	25 G 1,5	360,0	16,9	655
					1 110 0015 034 5	34 G 1,5	490,0	19,4	945
					1 110 0015 042 5	42 G 1,5	605,0	23,1	1210
					1 110 0015 050 5	50 G 1,5	720,0	21,9	1410
					1 110 0015 061 5	61 G 1,5	878,0	27,9	1650
					1 110 0015 065 5	65 G 1,5	936,0	30,0	1830

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
1 110 0025 002 5	2 X 2.5	48,0	7,5	123
1 110 0025 003 5	3 G 2.5	72,0	8,1	152
1 110 0025 004 5	4 G 2.5	96,0	8,9	192
1 110 0025 005 5	5 G 2.5	120,0	10,0	243
1 110 0025 007 5	7 G 2.5	168,0	11,1	310
1 110 0025 012 5	12 G 2.5	288,0	14,8	524
1 110 0025 018 5	18 G 2.5	432,0	17,8	698
1 110 0025 025 5	25 G 2.5	600,0	20,8	876
1 110 0040 002 5	2 X 4	76,8	9,5	176
1 110 0040 003 5	3 G 4	115,2	9,9	224
1 110 0040 004 5	4 G 4	154,0	10,8	299
1 110 0040 005 5	5 G 4	192,0	12,1	363
1 110 0040 007 5	7 G 4	269,0	13,4	488
1 110 0040 012 5	12 G 4	461,0	19,8	932
1 110 0060 003 5	3 G 6	173,0	11,7	394
1 110 0060 004 5	4 G 6	230,0	13,0	480
1 110 0060 005 5	5 G 6	288,0	14,5	583
1 110 0060 007 5	7 G 6	403,0	16,0	782
1 110 0100 003 5	3 G 10	288,0	14,6	622
1 110 0100 004 5	4 G 10	384,0	16,2	782
1 110 0100 005 5	5 G 10	480,0	18,1	992
1 110 0100 007 5	7 G 10	672,0	20,0	1312
1 110 0160 003 5	3 G 16	461,0	18,8	872
1 110 0160 004 5	4 G 16	614,0	21,2	1212
1 110 0160 005 5	5 G 16	768,0	21,2	1545
1 110 0160 007 5	7 G 16	1075,0	23,4	1850



CC-control cable H-CH-1130

Halogen-free numbered black cores, shielded
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 1130 3x1,5 JZ-C, halogen-free

The CC-control cable H-CH-1130 shielded is suitable as a control, regulating and measuring cable especially where free unrestricted movement is required and where there is an increased demand for electromagnetic compatibility (EMC). It is used in machine tools, plant and apparatus construction, heating, air conditioning and ventilation technology and for other applications of electrical equipment, particularly if there is an increased demand for protection against fire for humans, goods and premises.

Construction

Fine strands of bare copper wire with halogen-free polymer mixture insulation.
Cores black with consecutive white numbering.
3 cores or more with protective green/yellow conductor in the outer layer.
Cores twisted in layers. Separation foil, tinned copper shield. Outer sheath of halogen-free polymer mixture, flame retardant (acc. to IEC 60332-3).
Colour grey (RAL 7035 or 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter
flexible application: 20 × cable diameter

Approvals:
acc. to VDE 0245, 0250,
0281, 0282
CEI: 20.22


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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
1 130 0005 002 5	2 X 0,5	36,0	5,8	46	1 130 0025 002 5	2 X 2.5	97,0	8,7	134
1 130 0005 003 5	3 G 0,5	43,0	6,1	59	1 130 0025 003 5	3 G 2.5	150,0	8,9	176
1 130 0005 004 5	4 G 0,5	49,0	6,5	70	1 130 0025 004 5	4 G 2.5	175,0	9,9	210
1 130 0005 005 5	5 G 0,5	57,0	7,0	80	1 130 0025 005 5	5 G 2.5	204,0	11,0	244
1 130 0005 007 5	7 G 0,5	70,0	7,5	105	1 130 0025 007 5	7 G 2.5	238,0	11,9	368
1 130 0005 012 5	12 G 0,5	119,0	9,9	170	1 130 0025 012 5	12 G 2.5	444,0	16,0	598
1 130 0005 018 5	18 G 0,5	159,0	11,5	232					
1 130 0005 025 5	25 G 0,5	210,0	13,4	345	1 130 0040 002 5	2 X 4	136,0	10,0	186
					1 130 0040 003 5	3 G 4	180,0	10,5	248
1 130 0007 002 5	2 X 0,75	43,0	6,2	60	1 130 0040 004 5	4 G 4	248,0	11,6	333
1 130 0007 003 5	3 G 0,75	52,0	6,5	70	1 130 0040 005 5	5 G 4	330,0	12,9	412
1 130 0007 004 5	4 G 0,75	61,0	7,0	84	1 130 0040 007 5	7 G 4	358,0	14,4	545
1 130 0007 005 5	5 G 0,75	72,0	7,7	102					
1 130 0007 007 5	7 G 0,75	88,8	8,3	140	1 130 0060 002 5	2 X 6	176,0	11,7	270
1 130 0007 012 5	12 G 0,75	153,0	10,9	220	1 130 0060 003 5	3 G 6	242,0	12,7	337
1 130 0007 018 5	18 G 0,75	210,0	12,7	315	1 130 0060 004 5	4 G 6	343,0	14,2	425
1 130 0007 025 5	25 G 0,75	279,0	14,8	435	1 130 0060 005 5	5 G 6	443,0	15,5	530
					1 130 0060 007 5	7 G 6	510,0	17,0	700
1 130 0010 002 5	2 X 1,0	51,0	6,5	70					
1 130 0010 003 5	3 G 1,0	62,0	6,8	90	1 130 0100 002 5	2 X 10	267,0	15,8	425
1 130 0010 004 5	4 G 1,0	74,0	7,3	110	1 130 0100 003 5	3 G 10	373,0	15,6	510
1 130 0010 005 5	5 G 1,0	88,0	8,1	140	1 130 0100 004 5	4 G 10	535,0	17,2	805
1 130 0010 007 5	7 G 1,0	112,0	8,8	175	1 130 0100 005 5	5 G 10	615,0	19,5	888
1 130 0010 012 5	12 G 1,0	190,0	11,5	285	1 130 0100 007 5	7 G 10	825,0	21,4	1356
1 130 0010 018 5	18 G 1,0	255,0	13,9	399					
1 130 0010 025 5	25 G 1,0	345,0	15,9	566	1 130 0160 004 5	4 G 16	815,0	20,2	888
					1 130 0160 005 5	5 G 16	1065,0	22,6	1370
1 130 0015 002 5	2 X 1,5	65,0	7,1	89					
1 130 0015 003 5	3 G 1,5	82,0	7,5	105					
1 130 0015 004 5	4 G 1,5	100,0	8,2	134					
1 130 0015 005 5	5 G 1,5	119,0	8,9	170					
1 130 0015 007 5	7 G 1,5	154,0	9,9	223					
1 130 0015 012 5	12 G 1,5	255,0	13,0	365					
1 130 0015 018 5	18 G 1,5	373,0	15,6	512					
1 130 0015 025 5	25 G 1,5	530,0	17,9	745					

CC-control cable H-1111

Halogen-free, coloured cores

Conforms to the EC low voltage guideline 73/23/EEC



ConCab kabel Mainhardt 1111 5x1,5 JB halogen-free 300/500 V

The CC-control cable H-1111 is suitable as a control, regulating and measuring cable especially where free unrestricted movement is required. It is used in machine tools, plant and apparatus construction, heating, air conditioning and ventilation technology and for other applications of electrical equipment, particularly if there is an increased demand for protection against fire for humans, goods and premises.

Construction

Fine strands of bare copper wire with halogen-free insulation.
Cores coloured acc. to VDE 0293 308.
3 cores or more with protective green/yellow conductor in the outer layer.
Outer sheath halogen-free, flame retardant polymer mixture (acc. to IEC 60332-3).
Colour grey (RAL 7035 or 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
4000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MΩ × km

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0245, 0250,
0281, 0282
CEI: 20.22

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
1 111 0015 003 5	3 G 1,5	43,0	7,6	107
1 111 0015 004 5	4 G 1,5	58,0	8,2	142
1 111 0015 005 5	5 G 1,5	72,0	9,4	187
1 111 0025 003 5	3 G 2.5	72,0	9,1	162
1 111 0025 004 5	4 G 2.5	96,0	10,1	202
1 111 0025 005 5	5 G 2.5	120,0	11,4	253
1 111 0040 003 5	3 G 4	115,2	10,7	256
1 111 0040 004 5	4 G 4	154,0	11,9	336
1 111 0040 005 5	5 G 4	192,0	13,9	412
1 111 0060 004 5	4 G 6	230,0	14,0	375
1 111 0060 005 5	5 G 6	288,0	15,9	500
1 111 0100 004 5	4 G 10	384,0	18,1	782
1 111 0100 005 5	5 G 10	480,0	20,0	992
1 111 0160 004 5	4 G 16	614,0	20,7	1212
1 111 0160 005 5	5 G 16	768,0	23,9	1545
1 111 0250 004 5	4 G 25	960,0	25,2	1581
1 111 0250 005 5	5 G 25	1200,0	29,2	1921
1 111 0350 004 5	4 G 35	1344,0	29,5	2065
1 111 0350 005 5	5 G 35	1680,0	33,9	2580
1 111 0500 004 5	4 G 50	1920,0	34,8	2820
1 111 0700 004 5	4 G 70	2688,0	41,0	3950
1 111 0950 004 5	4 G 95	3648,0	45,8	4945
1 111 1200 004 5	4 G 120	4608,0	52,0	6400



Data cable shielded and unshielded



		Departure	Abfahrt	
Zeit	Zuglauf			Ziel
9 44	 Rosenheim Kufstein			INNSBRUCK
11 24	 Salzburg		Badgastein Villach	KLAGENFURT
11 27	 Freising Landshut		Plattling	PASSAU
11 29	 Kufstein Innsbruck		Bolzano Verona	VENEDIG /
11 30	 Holzkirchen			TEGERNSEE
11 32	 Augsburg		Mainz Köln	DUESSELDORF
11 37	 Rosenh Freilassing			SALZBURG
11 40	 Augsburg Stuttgart		Mannheim	FRANKFURT
11 46	 Grafting Rosenheim			KUFSTEIN

CC-data cable LiYY-210

Coloured cores acc. to DIN 47100

Conforms to the EC low voltage guideline 73/23/EEC



The flexible CC-data cable LiYY-210 is suitable as a control and signal cable in data, measurement and regulation technology. These cables are best suited for miniature and sub-miniature connector systems.

Construction

Fine strands of bare copper wire, PVC core insulation. Cores coloured acc. to DIN 47100. Cores twisted in layers, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7001).

Technical data

Rated voltage:
up to 0,34 mm²: 300 V

Test voltage:
up to 0,34 mm²: 1200 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:
min. 20 MΩ × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,14	0,25	0,34
Conductor resistance (Ω/km):	≤ 138	≤ 79	≤ 57
Max. load (Ampere):	2	4	6
Capacity at 800 Hz core/core (approx. nF/km):	90	100	110

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
210 0001 002	2 × 0,14	2,7	3,2	12	210 0002 021	21 × 0,25	50,0	8,5	128
210 0001 003	3 × 0,14	4,0	3,4	15	210 0002 024	24 × 0,25	57,6	9,4	143
210 0001 004	4 × 0,14	5,4	3,6	17	210 0002 025	25 × 0,25	60,0	9,9	146
210 0001 005	5 × 0,14	6,7	3,9	22	210 0002 027	27 × 0,25	65,0	10,0	158
210 0001 006	6 × 0,14	8,1	4,4	25	210 0002 030	30 × 0,25	72,0	10,2	172
210 0001 007	7 × 0,14	9,4	4,5	26	210 0002 032	32 × 0,25	77,0	10,6	186
210 0001 008	8 × 0,14	10,8	4,7	29	210 0002 036	36 × 0,25	86,0	10,9	196
210 0001 009	9 × 0,14	12,1	5,4	32	210 0002 040	40 × 0,25	96,0	11,6	207
210 0001 010	10 × 0,14	13,4	5,6	35	210 0002 044	44 × 0,25	106,0	12,3	214
210 0001 012	12 × 0,14	16,1	5,8	43	210 0002 048	48 × 0,25	115,0	12,5	234
210 0001 014	14 × 0,14	18,8	6,0	48	210 0002 052	52 × 0,25	125,0	12,9	258
210 0001 016	16 × 0,14	21,5	6,3	52	210 0002 061	61 × 0,25	146,4	13,8	324
210 0001 018	18 × 0,14	24,2	7,1	65					
210 0001 020	20 × 0,14	26,8	7,2	73	210 0003 002	2 × 0,34	6,5	4,3	28
210 0001 021	21 × 0,14	28,2	7,4	79	210 0003 003	3 × 0,34	9,8	4,5	30
210 0001 024	24 × 0,14	32,3	7,6	89	210 0003 004	4 × 0,34	13,1	4,9	40
210 0001 025	25 × 0,14	33,5	8,0	93	210 0003 005	5 × 0,34	16,3	5,6	44
210 0001 027	27 × 0,14	36,3	8,0	96	210 0003 006	6 × 0,34	19,6	6,1	53
210 0001 030	30 × 0,14	40,3	8,2	106	210 0003 007	7 × 0,34	22,8	6,1	60
210 0001 032	32 × 0,14	43,0	8,8	112	210 0003 008	8 × 0,34	26,1	6,7	66
210 0001 036	36 × 0,14	48,4	9,1	120	210 0003 009	9 × 0,34	29,4	7,6	76
210 0001 040	40 × 0,14	54,0	9,5	132	210 0003 010	10 × 0,34	32,6	7,8	77
210 0001 044	44 × 0,14	59,0	10,4	145	210 0003 012	12 × 0,34	39,2	8,0	88
210 0001 048	48 × 0,14	65,0	10,6	161	210 0003 014	14 × 0,34	45,7	8,4	101
210 0001 052	52 × 0,14	70,0	10,8	177	210 0003 016	16 × 0,34	52,2	9,2	114
210 0001 056	56 × 0,14	75,0	11,2	185	210 0003 018	18 × 0,34	58,8	9,6	135
210 0001 061	61 × 0,14	82,0	11,5	204	210 0003 021	21 × 0,34	68,6	10,5	151
					210 0003 024	24 × 0,34	78,3	11,0	171
210 0002 002	2 × 0,25	4,8	3,7	25	210 0003 025	25 × 0,34	81,6	11,6	181
210 0002 003	3 × 0,25	7,2	3,9	29	210 0003 027	27 × 0,34	88,1	11,6	188
210 0002 004	4 × 0,25	9,6	4,2	31	210 0003 030	30 × 0,34	97,9	12,1	207
210 0002 005	5 × 0,25	12,0	4,7	38	210 0003 032	32 × 0,34	104,4	12,5	223
210 0002 006	6 × 0,25	14,4	5,2	42	210 0003 036	36 × 0,34	117,5	12,9	244
210 0002 007	7 × 0,25	16,8	5,2	48	210 0003 040	40 × 0,34	130,6	13,5	266
210 0002 008	8 × 0,25	19,2	5,7	54	210 0003 044	44 × 0,34	143,6	14,4	292
210 0002 010	10 × 0,25	24,0	6,8	65	210 0003 048	48 × 0,34	156,7	15,0	315
210 0002 012	12 × 0,25	28,8	7,0	75	210 0003 052	52 × 0,34	169,7	15,4	337
210 0002 014	14 × 0,25	33,6	7,3	89	210 0003 056	56 × 0,34	182,8	15,9	360
210 0002 016	16 × 0,25	38,4	7,7	95	210 0003 060	60 × 0,34	196,0	16,2	380
210 0002 018	18 × 0,25	43,2	8,1	110	210 0003 061	61 × 0,34	199,1	16,4	392
210 0002 020	20 × 0,25	48,0	8,5	117					

CC-data cable LiYY-210

Coloured cores acc. to DIN 47100

Conforms to the EC low voltage guideline 73/23/EEC



The flexible CC-data cable LiYY-210 is suitable as a control and signal cable in data, measurement and regulation technology. These cables are best suited for connector systems.

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in layer. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
from 0,5 mm²: 300/500 V

Test voltage:
from 0,5 mm²: 2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm ²):	0,5	0,75	1,0	1,5
Conductor resistance (Ohm/km):	≤ 39	≤ 26	≤ 19,5	≤ 13,3
Max. load (Ampere):	9	12	15	18
Capacity at 800 Hz core/core (approx. nF/km):	120	120	120	120

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
210 0005 002	2 × 0,5	9,6	4,9	25
210 0005 003	3 × 0,5	14,4	5,2	35
210 0005 004	4 × 0,5	19,2	5,8	42
210 0005 005	5 × 0,5	24,0	6,3	49
210 0005 006	6 × 0,5	28,8	7,1	65
210 0005 007	7 × 0,5	34,0	7,1	73
210 0005 008	8 × 0,5	38,4	7,7	83
210 0005 010	10 × 0,5	48,0	9,2	120
210 0005 012	12 × 0,5	58,0	9,4	130
210 0005 014	14 × 0,5	67,0	10,2	130
210 0005 016	16 × 0,5	77,0	10,6	152
210 0005 018	18 × 0,5	86,4	11,3	166
210 0005 020	20 × 0,5	96,0	11,8	180
210 0005 021	21 × 0,5	101,0	13,0	185
210 0005 024	24 × 0,5	115,0	13,1	250
210 0005 027	27 × 0,5	130,0	13,7	244
210 0005 030	30 × 0,5	144,0	14,1	267
210 0005 032	32 × 0,5	154,0	14,7	291
210 0005 036	36 × 0,5	173,0	15,2	314
210 0005 040	40 × 0,5	192,0	16,0	345
210 0005 044	44 × 0,5	211,0	16,8	392
210 0005 052	52 × 0,5	250,0	19,8	454
210 0005 061	61 × 0,5	293,0	20,2	536
210 0007 002	2 × 0,75	14,4	5,4	48
210 0007 003	3 × 0,75	21,6	5,8	57
210 0007 004	4 × 0,75	28,8	6,3	69
210 0007 005	5 × 0,75	36,0	7,1	78
210 0007 007	7 × 0,75	50,0	7,7	112
210 0007 008	8 × 0,75	58,0	8,3	126
210 0007 010	10 × 0,75	72,0	9,8	149
210 0007 012	12 × 0,75	86,0	10,3	176
210 0007 016	16 × 0,75	115,0	11,8	218
210 0007 020	20 × 0,75	144,0	13,0	274
210 0007 025	25 × 0,75	180,0	14,9	285
210 0007 030	30 × 0,75	216,0	15,4	393
210 0010 002	2 × 1,0	19,2	6,0	55
210 0010 003	3 × 1,0	29,0	6,3	70
210 0010 005	5 × 1,0	48,0	7,7	98
210 0015 002	2 × 1,5	29,0	7,2	74
210 0015 003	3 × 1,5	43,0	7,6	89
210 0015 004	4 × 1,5	58,0	8,3	105

CC-data cable LiYY-(TP)-230

Coloured cores acc. to DIN 47100

Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 230 2x2x0,34 LIYY (TP)



Technical data

Rated voltage:

up to 0.34 mm²: 300 V
from 0.50 mm²: 300/500 V

Test voltage:

up to 0.34 mm²: 1200 V
from 0.50 mm²: 2000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0.34 mm²: 7-strands

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:

acc. to VDE 0281, 0812, 0814

The flexible CC-data cable LiYY-(TP)-230 is suitable as a control and signal cable in data, measurement and signal technology. Synchronized twisted core pair lengths cause minimum coupling values.

Construction

Fine strands of bare copper wire. PVC core insulation. Cores coloured acc. to DIN 47100. Cores twisted in short lengths to pairs and pairs twisted in layers, foil.

PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7032).

Conductor cross-section (mm ²):	0,14	0,25	0,34	0,5	0,75
Loop resistance (Ohm/km):	≤ 276	≤ 158	≤ 114	≤ 78	≤ 52
Max. load (Ampere):	2	4	6	9	12
Capacity at 800 Hz core/core (approx. nF/km):	90	100	110	120	120
Capacity coupling between pairs at 800 Hz (approx. pF/100 m):	300	300	300	300	300

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
230 0001 002	2 × 2 × 0,14	5,4	5,0	24	230 0003 002	2 × 2 × 0,34	13,2	6,1	44
230 0001 003	3 × 2 × 0,14	8,0	5,4	29	230 0003 003	3 × 2 × 0,34	19,6	7,3	56
230 0001 004	4 × 2 × 0,14	10,7	5,8	41	230 0003 004	4 × 2 × 0,34	27,2	8,0	69
230 0001 006	6 × 2 × 0,14	16,1	6,6	56	230 0003 005	5 × 2 × 0,34	36,2	8,8	90
230 0001 008	8 × 2 × 0,14	21,5	7,6	62	230 0003 006	6 × 2 × 0,34	39,3	10,5	115
230 0001 010	10 × 2 × 0,14	26,9	8,4	76	230 0003 008	8 × 2 × 0,34	52,2	10,5	129
230 0001 012	12 × 2 × 0,14	32,3	8,7	89	230 0003 010	10 × 2 × 0,34	65,3	11,6	166
230 0001 014	14 × 2 × 0,14	37,6	9,4	98	230 0003 012	12 × 2 × 0,34	78,3	12,5	190
230 0001 016	16 × 2 × 0,14	43,0	10,1	112	230 0003 016	16 × 2 × 0,34	104,4	14,4	240
230 0001 018	18 × 2 × 0,14	48,4	10,3	119	230 0003 020	20 × 2 × 0,34	130,6	15,8	290
230 0001 020	20 × 2 × 0,14	54,0	10,7	134	230 0003 024	24 × 2 × 0,34	156,7	17,3	343
230 0001 024	24 × 2 × 0,14	65,0	11,9	162	230 0003 025	25 × 2 × 0,34	163,2	17,8	372
230 0001 025	25 × 2 × 0,14	67,0	12,1	173	230 0003 030	30 × 2 × 0,34	195,8	18,6	429
230 0001 026	26 × 2 × 0,14	70,0	12,2	178	230 0003 040	40 × 2 × 0,34	261,1	21,2	551
230 0001 028	28 × 2 × 0,14	75,0	12,3	184	230 0003 050	50 × 2 × 0,34	326,4	24,8	698
230 0001 030	30 × 2 × 0,14	81,0	12,8	199					
230 0001 032	32 × 2 × 0,14	86,0	13,1	221	230 0005 002	2 × 2 × 0,5	19,2	7,0	72
230 0001 036	36 × 2 × 0,14	97,0	13,7	232	230 0005 003	3 × 2 × 0,5	28,8	7,8	83
230 0001 040	40 × 2 × 0,14	108,0	14,7	257	230 0005 004	4 × 2 × 0,5	38,4	8,8	115
230 0001 046	46 × 2 × 0,14	124,0	15,7	294	230 0005 005	5 × 2 × 0,5	48,0	9,9	120
230 0001 050	50 × 2 × 0,14	134,0	16,1	342	230 0005 006	6 × 2 × 0,5	57,6	11,0	168
230 0001 052	52 × 2 × 0,14	140,0	16,5	359	230 0005 008	8 × 2 × 0,5	76,8	11,9	206
230 0001 055	55 × 2 × 0,14	148,0	18,0	380	230 0005 010	10 × 2 × 0,5	96,0	12,9	247
					230 0005 012	12 × 2 × 0,5	115,2	14,1	285
230 0002 002	2 × 2 × 0,25	9,6	5,4	38	230 0005 016	16 × 2 × 0,5	153,6	16,0	392
230 0002 003	3 × 2 × 0,25	14,4	5,7	48	230 0005 020	20 × 2 × 0,5	192,0	18,1	373
230 0002 004	4 × 2 × 0,25	21,0	6,8	59	230 0005 024	24 × 2 × 0,5	230,4	18,7	459
230 0002 005	5 × 2 × 0,25	24,0	7,4	60	230 0005 025	25 × 2 × 0,5	240,0	19,1	564
230 0002 006	6 × 2 × 0,25	28,8	7,9	80	230 0005 030	30 × 2 × 0,5	288,0	21,9	553
230 0002 008	8 × 2 × 0,25	38,4	8,8	98	230 0005 040	40 × 2 × 0,5	384,0	25,1	736
230 0002 010	10 × 2 × 0,25	50,0	9,6	115	230 0005 050	50 × 2 × 0,5	480,0	28,7	927
230 0002 012	12 × 2 × 0,25	57,6	10,1	150					
230 0002 016	16 × 2 × 0,25	76,8	11,7	186	230 0007 002	2 × 2 × 0,75	28,8	7,9	89
230 0002 020	20 × 2 × 0,25	96,0	13,0	209	230 0007 003	3 × 2 × 0,75	43,2	9,1	117
230 0002 024	24 × 2 × 0,25	115,2	14,0	247	230 0007 004	4 × 2 × 0,75	57,6	10,0	146
230 0002 025	25 × 2 × 0,25	120,0	14,5	267	230 0007 006	6 × 2 × 0,75	86,4	11,8	215
230 0002 030	30 × 2 × 0,25	144,0	15,2	295	230 0007 008	8 × 2 × 0,75	115,2	13,0	268
230 0002 032	32 × 2 × 0,25	153,6	15,6	313	230 0007 012	12 × 2 × 0,75	172,8	15,4	402
230 0002 040	40 × 2 × 0,25	192,0	17,3	379	230 0007 016	16 × 2 × 0,75	230,4	18,1	510
230 0002 050	50 × 2 × 0,25	240,0	19,3	481					



CC-data cable LiYCY-220

Coloured cores acc. to DIN 47100, shielded
Conforms to the EC low voltage guideline 73/23/EEC

ConCab kabel Mainhardt 220 12x0,25 LiYCY

The flexible CC-data cable LiYCY-220 is suitable as a control and signal cable in electronics as well as in tool and machine construction. A foil wrapping covering the core reduces the outer diameter which creates a tighter bending radius and reduced weight in comparison to usual data cables. The copper shield means it can be used where there is an increased demand for electromagnetic compatibility (EMC).

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in layers, foil, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:

up to 0,34 mm²: 300 V
from 0,50 mm²: 300/500 V

Test voltage:

up to 0,34 mm²: 1200 V
from 0,50 mm²: 2000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:

acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,14	0,25	0,34	0,5
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57	≤ 39
Max. load (Ampere):	2	4	6	9

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
220 0001 001	1 × 0,14	8,0	2,6	16	220 0002 001	1 × 0,25	8,1	3,1	17
220 0001 002	2 × 0,14	12,6	3,9	21	220 0002 002	2 × 0,25	16,0	4,5	29
220 0001 003	3 × 0,14	14,1	4,1	25	220 0002 003	3 × 0,25	21,0	4,7	35
220 0001 004	4 × 0,14	15,9	4,3	29	220 0002 004	4 × 0,25	24,0	5,0	44
220 0001 005	5 × 0,14	19,5	4,6	35	220 0002 005	5 × 0,25	29,0	5,5	50
220 0001 006	6 × 0,14	22,0	5,0	37	220 0002 006	6 × 0,25	30,0	5,9	58
220 0001 007	7 × 0,14	24,0	5,0	40	220 0002 007	7 × 0,25	37,0	5,9	60
220 0001 008	8 × 0,14	26,0	5,4	44	220 0002 008	8 × 0,25	42,0	6,3	67
220 0001 009	9 × 0,14	28,0	5,7	50	220 0002 010	10 × 0,25	46,0	7,4	81
220 0001 010	10 × 0,14	31,2	6,0	55	220 0002 012	12 × 0,25	50,0	7,6	91
220 0001 012	12 × 0,14	32,0	6,2	60	220 0002 014	14 × 0,25	64,0	8,1	116
220 0001 014	14 × 0,14	35,0	6,7	66	220 0002 015	15 × 0,25	67,0	8,1	125
220 0001 015	15 × 0,14	40,0	6,7	71	220 0002 016	16 × 0,25	71,0	8,3	133
220 0001 016	16 × 0,14	49,0	7,1	74	220 0002 018	18 × 0,25	83,0	8,7	137
220 0001 018	18 × 0,14	54,0	7,4	93	220 0002 021	21 × 0,25	105,0	9,1	171
220 0001 020	20 × 0,14	58,0	7,7	95	220 0002 024	24 × 0,25	115,0	10,1	185
220 0001 021	21 × 0,14	60,0	7,7	105	220 0002 025	25 × 0,25	117,0	10,3	190
220 0001 024	24 × 0,14	74,0	8,3	106	220 0002 027	27 × 0,25	120,0	10,3	200
220 0001 025	25 × 0,14	77,0	8,8	111	220 0002 030	30 × 0,25	132,0	10,8	214
220 0001 027	27 × 0,14	85,0	8,8	122	220 0002 032	32 × 0,25	138,0	11,2	227
220 0001 030	30 × 0,14	98,0	9,0	129	220 0002 036	36 × 0,25	152,0	11,6	250
220 0001 032	32 × 0,14	108,0	9,3	138	220 0002 040	40 × 0,25	164,0	12,1	269
220 0001 036	36 × 0,14	117,0	9,6	148	220 0002 042	42 × 0,25	172,0	12,1	284
220 0001 037	37 × 0,14	120,0	9,6	159	220 0002 044	44 × 0,25	180,0	13,0	300
220 0001 040	40 × 0,14	126,0	10,2	165	220 0002 048	48 × 0,25	209,0	13,2	310
220 0001 042	42 × 0,14	132,0	10,2	173	220 0002 050	50 × 0,25	220,0	13,2	325
220 0001 044	44 × 0,14	138,0	10,8	181	220 0002 052	52 × 0,25	234,0	13,6	340
220 0001 048	48 × 0,14	145,0	11,1	192	220 0002 056	56 × 0,25	259,0	13,9	360
220 0001 050	50 × 0,14	150,0	11,1	196	220 0002 061	61 × 0,25	287,0	14,4	385
220 0001 052	52 × 0,14	155,0	11,3	200					
220 0001 056	56 × 0,14	166,0	11,7	212					
220 0001 061	61 × 0,14	176,0	12,0	243					



CC-data cable LiYCY-220

Coloured cores according to DIN 47100, shielded
Conforms to the EC low voltage guideline 73/23/EEC

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
220 0003 002	2 × 0.34	21,0	5,0	33
220 0003 003	3 × 0.34	27,0	5,2	41
220 0003 004	4 × 0.34	33,0	5,6	48
220 0003 005	5 × 0.34	36,0	6,2	58
220 0003 006	6 × 0.34	42,0	6,9	64
220 0003 007	7 × 0.34	51,0	6,9	70
220 0003 008	8 × 0.34	54,0	7,4	93
220 0003 010	10 × 0.34	74,0	8,4	110
220 0003 012	12 × 0.34	80,0	8,7	120
220 0003 014	14 × 0.34	86,0	9,2	137
220 0003 016	16 × 0.34	94,0	9,6	152
220 0003 018	18 × 0.34	108,0	10,0	188
220 0003 021	21 × 0.34	127,0	10,6	202
220 0003 024	24 × 0.34	140,0	11,7	252
220 0003 025	25 × 0.34	143,0	12,4	254
220 0003 027	27 × 0.34	151,0	12,4	258
220 0003 032	32 × 0.34	171,0	13,0	296
220 0003 036	36 × 0.34	188,0	13,5	322
220 0003 040	40 × 0.34	208,0	14,2	360
220 0003 042	42 × 0.34	215,0	14,2	377
220 0003 044	44 × 0.34	223,0	15,3	386
220 0003 050	50 × 0.34	266,0	15,7	435
220 0003 052	52 × 0.34	273,0	16,2	449
220 0003 061	61 × 0.34	316,0	17,2	514
220 0005 001	1 × 0,5	15,0	3,4	24
220 0005 002	2 × 0,5	29,0	5,7	42
220 0005 003	3 × 0,5	38,0	5,9	51
220 0005 004	4 × 0,5	45,0	6,4	61
220 0005 005	5 × 0,5	57,0	7,0	76
220 0005 006	6 × 0,5	68,0	7,7	94
220 0005 007	7 × 0,5	80,0	7,7	98
220 0005 008	8 × 0,5	85,0	8,3	111
220 0005 010	10 × 0,5	100,0	9,6	141
220 0005 012	12 × 0,5	112,0	9,9	156
220 0005 016	16 × 0,5	140,0	11,5	195
220 0005 018	18 × 0,5	152,0	11,9	215
220 0005 020	20 × 0,5	165,0	12,4	247
220 0005 024	24 × 0,5	190,0	13,6	298
220 0005 025	25 × 0,5	211,0	13,9	314
220 0005 027	27 × 0,5	221,0	13,9	331
220 0005 030	30 × 0,5	230,0	14,5	348
220 0005 032	32 × 0,5	258,0	15,3	373
220 0005 037	37 × 0,5	275,0	16,2	405
220 0005 040	40 × 0,5	298,0	16,9	440
220 0005 050	50 × 0,5	340,0	19,0	552
220 0005 061	61 × 0,5	415,0	20,8	659

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CC-data cable LiYCY-220

Coloured cores acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 220 12x0,75 LiYCY CE

The flexible CC-data cable LiYCY-220 shielded is suitable as a control and signal cable in electronics as well as in tool and machine construction. Foil wrapping over the core reduces the outer diameter and creates a tighter bending radius and reduces the weight in comparison to usual data cables. The copper shield means that it can be used where there is an increased demand for greater electromagnetic compatibility (EMC).

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in layers, foil, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
fin. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,75	1,0	1,5	2,5
Conductor resistance (Ohm/km):	≤ 26	≤ 19,5	≤ 13,3	≤ 7,98
Max. load (Ampere):	12	15	18	26

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CC-data cable LiYCY-220

Coloured cores acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
220 0007 001	1 × 0,75	18,0	3,7	30
220 0007 002	2 × 0,75	38,0	6,1	56
220 0007 003	3 × 0,75	49,0	6,4	75
220 0007 004	4 × 0,75	58,0	7,0	95
220 0007 005	5 × 0,75	70,0	7,7	130
220 0007 006	6 × 0,75	96,0	8,3	155
220 0007 007	7 × 0,75	100,0	8,3	168
220 0007 008	8 × 0,75	110,0	9,1	173
220 0007 010	10 × 0,75	131,0	10,4	195
220 0007 012	12 × 0,75	154,0	10,9	232
220 0007 014	14 × 0,75	167,0	11,7	260
220 0007 016	16 × 0,75	183,0	12,3	296
220 0007 018	18 × 0,75	205,0	12,7	315
220 0007 020	20 × 0,75	220,0	13,5	364
220 0007 025	25 × 0,75	250,0	15,7	418
220 0007 027	27 × 0,75	275,0	15,7	485
220 0007 030	30 × 0,75	315,0	16,1	500
220 0007 032	32 × 0,75	330,0	16,1	520
220 0007 036	36 × 0,75	370,0	17,7	606
220 0007 042	42 × 0,75	440,0	20,1	693
220 0007 050	50 × 0,75	480,0	21,0	807
220 0007 061	61 × 0,75	555,0	23,7	942
220 0010 001	1 × 1,0	23,0	4,6	44
220 0010 002	2 × 1,0	55,0	6,6	84
220 0010 003	3 × 1,0	70,0	6,9	110
220 0010 004	4 × 1,0	80,0	7,6	130
220 0010 005	5 × 1,0	95,0	8,2	156
220 0010 006	6 × 1,0	105,0	9,2	178
220 0010 007	7 × 1,0	120,0	9,2	192
220 0010 008	8 × 1,0	130,0	10,1	223
220 0010 010	10 × 1,0	165,0	11,6	251
220 0010 012	12 × 1,0	185,0	11,9	265
220 0010 014	14 × 1,0	205,0	12,7	272
220 0010 016	16 × 1,0	220,0	13,1	361
220 0010 018	18 × 1,0	248,0	13,9	380
220 0010 020	20 × 1,0	270,0	14,8	388
220 0010 025	25 × 1,0	336,0	17,1	475
220 0010 030	30 × 1,0	395,0	17,8	554
220 0010 034	34 × 1,0	440,0	21,5	629
220 0010 040	40 × 1,0	510,0	23,2	709
220 0010 042	42 × 1,0	533,0	23,2	769
220 0010 050	50 × 1,0	625,0	24,7	995
220 0010 061	61 × 1,0	710,0	27,3	1100

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CC-data cable LiYCY-220

Coloured cores acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
220 0015 001	1 × 1,5	29,0	4,9	49
220 0015 002	2 × 1,5	65,0	7,8	97
220 0015 003	3 × 1,5	90,0	8,1	125
220 0015 004	4 × 1,5	110,0	8,9	165
220 0015 005	5 × 1,5	125,0	9,7	193
220 0015 006	6 × 1,5	144,0	10,7	219
220 0015 007	7 × 1,5	159,0	10,7	245
220 0015 008	8 × 1,5	175,0	11,7	270
220 0015 010	10 × 1,5	210,0	13,6	338
220 0015 012	12 × 1,5	245,0	14,0	365
220 0015 014	14 × 1,5	280,0	15,4	410
220 0015 018	18 × 1,5	345,0	16,9	553
220 0015 020	20 × 1,5	375,0	17,8	635
220 0015 025	25 × 1,5	465,0	20,1	720
220 0015 030	30 × 1,5	555,0	20,7	776
220 0015 035	35 × 1,5	618,0	23,3	900
220 0015 042	42 × 1,5	782,0	25,5	1140
220 0015 050	50 × 1,5	885,0	27,4	1330
220 0015 061	61 × 1,5	1120,0	29,1	1650
220 0025 001	1 × 2,5	65,0	5,8	95
220 0025 002	2 × 2,5	98,0	8,6	148
220 0025 003	3 × 2,5	124,0	9,5	188
220 0025 004	4 × 2,5	150,0	10,2	236
220 0025 005	5 × 2,5	180,0	11,5	270
220 0025 007	7 × 2,5	235,0	13,5	340



CC-data cable LiYCY-220

Coloured cores acc. to DIN 47100, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 220 12x0,25 QMM E172073 cUL AWM STYLE 2464 300V 80°C



The flexible CC-data cable LiYCY-220 UL/CSA, is suitable as a control and signal cable in electronics as well as in tool and machine construction. Foil wrapping covering the core reduces the outer diameter which creates a tighter bending radius and reduces weight in comparison to usual data cables. The copper shield means it can be used where there is an increased demand for electromagnetic compatibility (EMC).

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in layers, foil, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300 V

Test voltage:
1500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to + 80°C
flexible application: -5°C to + 70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812
UL: Style 2464
CSA: AWM I/II A/B FT1

Conductor cross-section (mm²):	0,14	0,25	0,34
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57
Max. load (Ampere):	2	4	6

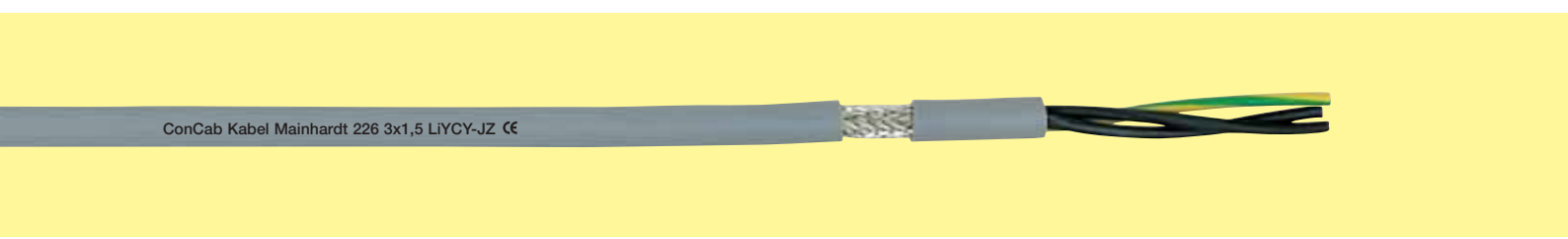


Part-No.	No. of cores + cross- section	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
220 26 02	2 × 0,14	2 × AWG 26	12,6	3,9	21
220 26 03	3 × 0,14	3 × AWG 26	14,1	4,1	25
220 26 04	4 × 0,14	4 × AWG 26	15,9	4,3	29
220 26 05	5 × 0,14	5 × AWG 26	19,5	4,6	35
220 26 07	7 × 0,14	7 × AWG 26	24,0	5,0	40
220 26 08	8 × 0,14	8 × AWG 26	26,0	5,4	44
220 26 12	12 × 0,14	12 × AWG 26	32,0	6,2	60
220 26 16	16 × 0,14	16 × AWG 26	49,0	7,1	74
220 26 21	21 × 0,14	21 × AWG 26	60,0	7,7	105
220 26 25	25 × 0,14	25 × AWG 26	77,0	8,8	111
220 24 02	2 × 0,25	2 × AWG 24	16,0	4,5	29
220 24 03	3 × 0,25	3 × AWG 24	21,0	4,7	35
220 24 04	4 × 0,25	4 × AWG 24	24,0	5,0	44
220 24 05	5 × 0,25	5 × AWG 24	29,0	5,5	50
220 24 07	7 × 0,25	7 × AWG 24	37,0	5,9	60
220 24 08	8 × 0,25	8 × AWG 24	42,0	6,3	67
220 24 12	12 × 0,25	12 × AWG 24	50,0	7,6	91
220 24 16	16 × 0,25	16 × AWG 24	71,0	8,3	133
220 24 21	21 × 0,25	21 × AWG 24	105,0	9,1	171
220 24 25	25 × 0,25	25 × AWG 24	117,0	10,3	190
220 22 02	2 × 0,34	2 × AWG 22	21,0	5,0	33
220 22 03	3 × 0,34	3 × AWG 22	27,0	5,2	41
220 22 04	4 × 0,34	4 × AWG 22	33,0	5,6	48
220 22 05	5 × 0,34	5 × AWG 22	36,0	6,2	58
220 22 07	7 × 0,34	7 × AWG 22	51,0	6,9	70
220 22 12	12 × 0,34	12 × AWG 22	80,0	8,7	120
220 22 16	16 × 0,34	16 × AWG 22	94,0	9,6	152
220 22 21	21 × 0,34	21 × AWG 22	127,0	10,6	202
220 22 25	25 × 0,34	25 × AWG 22	143,0	12,4	254



CC-data cable LiYCY-JZ-226

Numbered black cores with protective conductor, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE



The flexible CC-data cable LiYCY-JZ-226 shielded is suitable as a control and supply cable in electronics as well as in tool and machine construction. Foil wrapping over the core reduces the outer diameter and creates a tighter bending radius and reduces the weight in comparison to usual control cables. The copper shield enables it to be used where a greater electromagnetic compatibility (EMC) is required.

Construction

Fine strands of bare copper wire, PVC core insulation. Black cores with consecutive white numbering. 3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers, foil wrapping. Overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm u km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 x cable diameter
flexible application: 15 x cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,5	0,75	1,0	1,5	2,5	4,0	6,0	10,0
Conductor resistance (Ohm/km):	≤ 39	≤ 26	≤ 19,5	≤ 13,3	≤ 7,89	≤ 4,95	≤ 3,3	≤ 1,91
Max. load (Ampere):	9	12	15	18	26	34	44	61

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
226 0005 002	2 X 0,5	29,0	5,7	42
226 0005 003	3 G 0,5	38,0	5,9	51
226 0005 004	4 G 0,5	45,0	6,4	61
226 0005 005	5 G 0,5	57,0	7,0	76
226 0005 006	6 G 0,5	68,0	7,7	94
226 0005 007	7 G 0,5	80,0	7,7	98
226 0005 008	8 G 0,5	85,0	8,3	111
226 0005 010	10 G 0,5	100,0	9,6	141
226 0005 012	12 G 0,5	112,0	9,9	156
226 0005 016	16 G 0,5	140,0	11,5	195
226 0005 018	18 G 0,5	152,0	11,9	215
226 0005 020	20 G 0,5	165,0	12,4	247
226 0005 024	24 G 0,5	190,0	13,6	298
226 0005 025	25 G 0,5	211,0	13,9	314
226 0005 030	30 G 0,5	230,0	14,5	348
226 0005 040	40 G 0,5	298,0	16,9	440
226 0005 050	50 G 0,5	340,0	19,0	552
226 0005 061	61 G 0,5	415,0	20,8	659
226 0007 002	2 X 0,75	38,0	6,1	56
226 0007 003	3 G 0,75	49,0	6,4	75
226 0007 004	4 G 0,75	58,0	7,0	95
226 0007 005	5 G 0,75	70,0	7,7	130
226 0007 006	6 G 0,75	96,0	8,3	155
226 0007 007	7 G 0,75	100,0	8,3	168
226 0007 008	8 G 0,75	110,0	9,1	173
226 0007 010	10 G 0,75	131,0	10,4	195
226 0007 012	12 G 0,75	154,0	10,9	232
226 0007 014	14 G 0,75	167,0	11,7	260
226 0007 016	16 G 0,75	183,0	12,3	296
226 0007 018	18 G 0,75	205,0	12,7	315
226 0007 020	20 G 0,75	220,0	13,5	364
226 0007 024	24 G 0,75	246,0	15,4	418
226 0007 030	30 G 0,75	315,0	16,1	500
226 0007 032	32 G 0,75	330,0	16,1	520
226 0007 036	36 G 0,75	370,0	17,7	606
226 0007 040	40 G 0,75	395,0	18,6	672
226 0007 042	42 G 0,75	440,0	20,1	693
226 0007 050	50 G 0,75	480,0	21,0	807
226 0007 061	61 G 0,75	555,0	23,7	942



CC-data cable LiYCY-JZ-226

Numbered black cores with protective conductor, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
226 0010 002	2 X 1,0	55,0	6,6	84
226 0010 003	3 G 1,0	70,0	6,9	110
226 0010 004	4 G 1,0	80,0	7,6	130
226 0010 005	5 G 1,0	95,0	8,2	156
226 0010 006	6 G 1,0	105,0	9,2	178
226 0010 007	7 G 1,0	120,0	9,2	192
226 0010 008	8 G 1,0	130,0	10,1	223
226 0010 010	10 G 1,0	165,0	11,6	251
226 0010 012	12 G 1,0	185,0	11,9	265
226 0010 014	14 G 1,0	205,0	12,7	272
226 0010 016	16 G 1,0	220,0	13,1	361
226 0010 018	18 G 1,0	248,0	13,9	380
226 0010 020	20 G 1,0	270,0	14,8	388
226 0010 024	24 G 1,0	320,0	16,8	451
226 0010 025	25 G 1,0	336,0	17,1	475
226 0010 030	30 G 1,0	395,0	17,8	554
226 0010 034	34 G 1,0	440,0	21,5	629
226 0010 040	40 G 1,0	510,0	23,2	709
226 0010 042	42 G 1,0	533,0	23,2	769
226 0010 050	50 G 1,0	625,0	24,7	995
226 0010 061	61 G 1,0	710,0	27,3	1100
226 0015 002	2 X 1,5	65,0	7,8	97
226 0015 003	3 G 1,5	90,0	8,1	125
226 0015 004	4 G 1,5	110,0	8,9	165
226 0015 005	5 G 1,5	125,0	9,7	193
226 0015 006	6 G 1,5	144,0	10,7	219
226 0015 007	7 G 1,5	159,0	10,7	245
226 0015 008	8 G 1,5	175,0	11,7	270
226 0015 010	10 G 1,5	210,0	13,6	338
226 0015 012	12 G 1,5	245,0	14,0	365
226 0015 014	14 G 1,5	280,0	15,4	410
226 0015 016	16 G 1,5	315,0	16,1	465
226 0015 018	18 G 1,5	345,0	16,9	553
226 0015 020	20 G 1,5	375,0	17,8	635
226 0015 024	24 G 1,5	448,0	20,0	705
226 0015 025	25 G 1,5	465,0	20,0	720
226 0015 030	30 G 1,5	555,0	20,7	776
226 0015 035	35 G 1,5	618,0	23,3	900
226 0015 040	40 G 1,5	732,0	25,5	1140
226 0015 050	50 G 1,5	885,0	27,4	1330
226 0015 061	61 G 1,5	1120,0	29,1	1650

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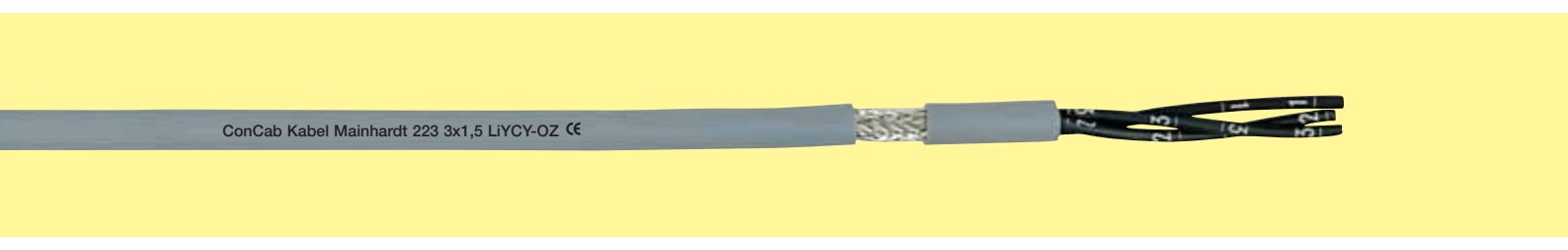
Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
226 0025 002	2 X 2,5	98,0	8,6	148
226 0025 003	3 G 2,5	124,0	9,5	188
226 0025 004	4 G 2,5	150,0	10,2	236
226 0025 005	5 G 2,5	180,0	11,5	270
226 0025 007	7 G 2,5	235,0	13,5	340
226 0025 012	12 G 2,5	386,0	16,7	585
226 0040 002	2 X 4	135,0	11,0	194
226 0040 003	3 G 4	178,0	11,6	250
226 0040 004	4 G 4	220,0	13,0	302
226 0040 005	5 G 4	270,0	14,5	370
226 0040 007	7 G 4	355,0	16,0	498
226 0060 002	2 X 6	175,0	12,1	251
226 0060 003	3 G 6	240,0	13,4	285
226 0060 004	4 G 6	305,0	15,0	412
226 0060 005	5 G 6	440,0	16,5	505
226 0060 007	7 G 6	505,0	18,2	671
226 0100 002	2 X 10	265,0	15,7	480
226 0100 003	3 G 10	370,0	16,7	485
226 0100 004	4 G 10	485,0	18,4	620
226 0100 005	5 G 10	714,0	20,6	826
226 0100 007	7 G 10	820,0	22,8	1280



CC-data cable LiYCY-OZ-223

Numbered black cores, shielded

Conforms to the EU low voltage guideline 73/23/EEC CE



ConCab Kabel Mainhardt 223 3x1,5 LiYCY-OZ CE

The flexible CC-data cable LiYCY-OZ-223 shielded, is suitable as a control and supply cable in electronics as well as in tool and machine construction. A foil wrapping over the core reduces the outer diameter and creates a tighter bending radius and reduces the weight in comparison to usual control cables. The copper shield enables it to be used where a greater electromagnetic compatibility (EMC) is required.

Construction

Fine strands of bare copper wire. PVC core insulation. Black cores with consecutive white numbering. Cores twisted in layers, foil wrapping. Overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001).

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,75	1,0	1,5	2,5	4,0	6,0	10,0
Conductor resistance (Ohm/km):	≤ 26	≤ 19,5	≤ 13,3	≤ 7,98	≤ 4,95	≤ 3,3	≤ 1,91
Max. load (Ampere):	12	15	18	26	34	44	61

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
223 0007 002	2 × 0,75	38,0	6,1	56	223 0015 008	8 × 1,5	175,0	11,7	270
223 0007 003	3 × 0,75	49,0	6,4	75	223 0015 010	10 × 1,5	210,0	13,6	338
223 0007 004	4 × 0,75	58,0	7,0	95	223 0015 012	12 × 1,5	245,0	14,0	365
223 0007 005	5 × 0,75	70,0	7,7	130	223 0015 014	14 × 1,5	280,0	15,4	410
223 0007 006	6 × 0,75	96,0	8,3	155	223 0015 016	16 × 1,5	315,0	16,1	465
223 0007 007	7 × 0,75	100,0	8,3	168	223 0015 018	18 × 1,5	345,0	16,9	553
223 0007 008	8 × 0,75	110,0	9,1	173	223 0015 020	20 × 1,5	375,0	17,8	635
223 0007 010	10 × 0,75	131,0	10,4	195	223 0015 024	24 × 1,5	448,0	20,0	705
223 0007 012	12 × 0,75	154,0	10,9	232	223 0015 025	25 × 1,5	465,0	20,0	720
223 0007 014	14 × 0,75	167,0	11,7	260	223 0015 030	30 × 1,5	555,0	20,7	776
223 0007 016	16 × 0,75	183,0	12,3	296	223 0015 034	34 × 1,5	598,0	21,5	896
223 0007 018	18 × 0,75	205,0	12,7	315	223 0015 035	35 × 1,5	618,0	23,3	900
223 0007 020	20 × 0,75	220,0	13,5	364	223 0015 040	40 × 1,5	732,0	25,5	1140
223 0007 024	24 × 0,75	246,0	15,4	418	223 0015 050	50 × 1,5	885,0	27,4	1330
223 0007 030	30 × 0,75	315,0	16,1	500	223 0015 061	61 × 1,5	1120,0	29,1	1650
223 0007 032	32 × 0,75	330,0	17,1	520					
223 0007 036	36 × 0,75	370,0	17,7	606	223 0025 002	2 × 2,5	98,0	8,6	148
223 0007 040	40 × 0,75	395,0	18,6	672	223 0025 003	3 × 2,5	124,0	9,5	188
223 0007 042	42 × 0,75	440,0	20,1	693	223 0025 004	4 × 2,5	150,0	10,2	236
223 0007 050	50 × 0,75	480,0	21,0	807	223 0025 005	5 × 2,5	180,0	11,5	270
223 0007 061	61 × 0,75	555,0	23,7	942	223 0025 007	7 × 2,5	235,0	13,5	340
					223 0025 012	12 × 2,5	386,0	16,7	585
223 0010 002	2 × 1,0	55,0	6,6	84					
223 0010 003	3 × 1,0	70,0	6,9	110	223 0040 002	2 × 4	135,0	11,0	194
223 0010 004	4 × 1,0	80,0	7,6	130	223 0040 003	3 × 4	178,0	11,6	250
223 0010 005	5 × 1,0	95,0	8,2	156	223 0040 004	4 × 4	220,0	13,0	302
223 0010 006	6 × 1,0	105,0	9,2	178	223 0040 005	5 × 4	270,0	14,5	370
223 0010 007	7 × 1,0	120,0	9,2	192	223 0040 007	7 × 4	355,0	16,0	498
223 0010 008	8 × 1,0	130,0	10,1	223					
223 0010 010	10 × 1,0	165,0	11,6	251	223 0060 002	2 × 6	175,0	12,1	251
223 0010 012	12 × 1,0	185,0	11,9	265	223 0060 003	3 × 6	240,0	13,4	285
223 0010 014	14 × 1,0	205,0	12,7	272	223 0060 004	4 × 6	305,0	15,0	412
223 0010 016	16 × 1,0	220,0	13,1	361	223 0060 005	5 × 6	440,0	16,5	505
223 0010 018	18 × 1,0	248,0	13,9	380	223 0060 007	7 × 6	505,0	18,2	671
223 0010 020	20 × 1,0	270,0	14,8	388					
223 0010 024	24 × 1,0	320,0	16,8	451	223 0100 002	2 × 10	265,0	15,7	420
223 0010 025	25 × 1,0	336,0	17,1	475	223 0100 003	3 × 10	370,0	16,7	485
223 0010 030	30 × 1,0	395,0	17,8	554	223 0100 004	4 × 10	485,0	18,4	620
223 0010 034	34 × 1,0	440,0	21,5	629	223 0100 005	5 × 10	714,0	20,6	826
223 0010 040	40 × 1,0	510,0	23,2	709	223 0100 007	7 × 10	820,0	22,8	1280
223 0010 042	42 × 1,0	533,0	23,2	769					
223 0010 050	50 × 1,0	625,0	24,7	995					
223 0010 061	61 × 1,0	710,0	27,3	1100					
223 0015 002	2 × 1,5	65,0	7,8	97					
223 0015 003	3 × 1,5	90,0	8,1	125					
223 0015 004	4 × 1,5	110,0	8,9	165					
223 0015 005	5 × 1,5	125,0	9,7	193					
223 0015 006	6 × 1,5	144,0	10,7	219					
223 0015 007	7 × 1,5	159,0	10,7	245					



CC-data cable LiYCY-JB-225

Coloured cores acc. to CC-colour code, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 225 3x0,34 LiYCY-JB CE

The flexible CC-data cable LiYCY-JB-225 shielded is suitable as a control and signal cable in data, measurement and regulating technology. The copper shield provides reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire, PVC core insulation. Core colours acc. to CC-colour code (pls.refer to technical appendix).
3 cores or more with green/yellow protective conductor in the outer layer. Cores twisted in layers, foil wrapping.
Overall tinned copper shield.
PVC outer sheath, flame retardant and self-extinguishing
(acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7001).

Technical data

Rated voltage:
300 V

Test voltage:
1200 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,14	0,25	0,34
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57
Max. load (Ampere):	2	4	6
Capacitance at 800 Hz core/core (approx. nF/km):	90	100	110
core/shield (approx.nF/km):	190	240	250

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
225 0001 001	1 × 0,14	8,0	2,6	16	225 0002 014	14 × 0,25	64,0	7,9	116
225 0001 002	2 × 0,14	12,6	3,9	21	225 0002 016	16 × 0,25	71,0	8,3	133
225 0001 003	3 × 0,14	14,1	4,1	25	225 0002 018	18 × 0,25	83,0	8,7	137
225 0001 004	4 × 0,14	15,9	4,3	29	225 0002 021	21 × 0,25	105,0	9,1	171
225 0001 005	5 × 0,14	19,5	4,6	35	225 0002 024	24 × 0,25	115,0	10,1	185
225 0001 006	6 × 0,14	22,0	5,0	37	225 0002 025	25 × 0,25	117,0	10,3	190
225 0001 007	7 × 0,14	24,0	5,0	40	225 0002 027	27 × 0,25	120,0	10,3	200
225 0001 008	8 × 0,14	26,0	5,4	44	225 0002 030	30 × 0,25	132,0	10,8	214
225 0001 009	9 × 0,14	28,0	5,7	50	225 0002 032	32 × 0,25	138,0	11,2	225
225 0001 010	10 × 0,14	31,2	6,0	55	225 0002 036	36 × 0,25	152,0	11,6	250
225 0001 012	12 × 0,14	32,0	6,2	60	225 0002 040	40 × 0,25	164,0	12,1	269
225 0001 014	14 × 0,14	35,0	6,7	66	225 0002 042	42 × 0,25	172,0	12,1	295
225 0001 015	15 × 0,14	40,0	6,7	71	225 0002 044	44 × 0,25	180,0	13,0	300
225 0001 016	16 × 0,14	49,0	7,1	74	225 0002 048	48 × 0,25	209,0	13,2	310
225 0001 018	18 × 0,14	54,0	7,4	93	225 0002 052	52 × 0,25	234,0	13,6	340
225 0001 020	20 × 0,14	58,0	7,7	95	225 0002 056	56 × 0,25	259,0	13,9	360
225 0001 021	21 × 0,14	60,0	7,7	98	225 0002 061	61 × 0,25	287,0	14,4	385
225 0001 024	24 × 0,14	74,0	8,3	106					
225 0001 025	25 × 0,14	77,0	8,8	111	225 0003 002	2 × 0,34	21,0	5,0	33
225 0001 027	27 × 0,14	85,0	8,8	122	225 0003 003	3 × 0,34	27,0	5,2	41
225 0001 030	30 × 0,14	98,0	9,0	129	225 0003 004	4 × 0,34	33,0	5,6	48
225 0001 032	32 × 0,14	108,0	9,3	138	225 0003 005	5 × 0,34	36,0	6,2	58
225 0001 036	36 × 0,14	117,0	9,6	148	225 0003 007	7 × 0,34	51,0	6,9	70
225 0001 040	40 × 0,14	126,0	10,2	165	225 0003 008	8 × 0,34	54,0	7,4	93
225 0001 042	42 × 0,14	132,0	10,2	173	225 0003 010	10 × 0,34	74,0	8,4	110
225 0001 044	44 × 0,14	138,0	10,8	181	225 0003 012	12 × 0,34	80,0	8,7	120
225 0001 048	48 × 0,14	145,0	11,1	192	225 0003 014	14 × 0,34	86,0	9,2	137
225 0001 052	52 × 0,14	155,0	11,3	200	225 0003 016	16 × 0,34	94,0	9,6	152
225 0001 056	56 × 0,14	166,0	11,7	212	225 0003 018	18 × 0,34	108,0	10,0	188
225 0001 061	61 × 0,14	176,0	12,0	243	225 0003 021	21 × 0,34	127,0	10,6	202
					225 0003 024	24 × 0,34	140,0	11,7	252
225 0002 001	1 × 0,25	8,1	3,1	17	225 0003 025	25 × 0,34	143,0	12,4	254
225 0002 002	2 × 0,25	16,0	4,5	29	225 0003 027	27 × 0,34	151,0	12,4	258
225 0002 003	3 × 0,25	21,0	4,7	35	225 0003 032	32 × 0,34	171,0	13,0	296
225 0002 004	4 × 0,25	24,0	5,0	44	225 0003 036	36 × 0,34	188,0	13,5	322
225 0002 005	5 × 0,25	29,0	5,5	50	225 0003 040	40 × 0,34	208,0	14,2	360
225 0002 006	6 × 0,25	30,0	5,9	58	225 0003 042	42 × 0,34	215,0	14,2	377
225 0002 007	7 × 0,25	37,0	5,9	60	225 0003 044	44 × 0,34	223,0	15,3	386
225 0002 008	8 × 0,25	42,0	6,3	67	225 0003 050	50 × 0,34	266,0	15,7	435
225 0002 010	10 × 0,25	46,0	7,4	81	225 0003 052	52 × 0,34	273,0	16,2	449
225 0002 012	12 × 0,25	50,0	7,6	91	225 0003 061	61 × 0,34	316,0	17,2	514



CC-data cable LiYCY-(TP)-240

Coloured cores acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 240 2x2x0,34 LiYCY(TP) CE



Technical data

Rated voltage:

up to 0,34 mm²: 300 V
from 0,50 mm²: 300/500 V

Test voltage:

up to 0,34 mm²: 1200 V
from 0,50 mm²: 2000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:

acc. to VDE 0281, 0812, 0814

The flexible CC-data cable LiYCY-TP-240 shielded is suitable as a control and signal cable in data, measurement, and regulating technology. Synchronized twisted core pair lengths cause minimum coupling values. The copper shield provides reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire, PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in short lengths, pairs twisted in layers, foil wrapping, tinned copper drain wire, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Conductor cross-section (mm ²):	0,14	0,25	0,34	0,5	0,75	1,0	1,5
Loop resistance (Ohm/km):	≤ 276	≤ 158	≤ 114	≤ 78	≤ 52	≤ 39	≤ 26,6
Max. load (Ampere):	2	4	6	9	12	15	18
Capacitance at 800 Hz							
core/core (approx.nF/km):	90	100	110	120	120	120	120
core/shield (approx. nF/km):	130	140	150	160	160	160	160
Cable attenuation at 800 Hz (dB/km):	2,3	1,9	1,5	1,3	1,0	0,7	0,5

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
240 0001 002	2 × 2 × 0,14	18,5	5,3	40	240 0005 002	2 × 2 × 0,5	59,0	7,7	98
240 0001 003	3 × 2 × 0,14	24,5	5,9	50	240 0005 003	3 × 2 × 0,5	70,0	8,3	130
240 0001 004	4 × 2 × 0,14	32,0	6,4	56	240 0005 004	4 × 2 × 0,5	91,0	9,4	155
240 0001 005	5 × 2 × 0,14	40,0	7,2	75	240 0005 005	5 × 2 × 0,5	107,0	9,8	165
240 0001 006	6 × 2 × 0,14	49,0	7,5	85	240 0005 006	6 × 2 × 0,5	120,0	11,1	208
240 0001 007	7 × 2 × 0,14	52,5	7,5	88	240 0005 008	8 × 2 × 0,5	144,0	12,1	264
240 0001 008	8 × 2 × 0,14	62,0	8,1	103	240 0005 010	10 × 2 × 0,5	178,0	13,6	315
240 0001 010	10 × 2 × 0,14	71,0	8,9	125	240 0005 012	12 × 2 × 0,5	237,0	14,5	353
240 0001 014	14 × 2 × 0,14	106,0	10,1	158	240 0005 016	16 × 2 × 0,5	254,0	16,6	470
240 0001 016	16 × 2 × 0,14	119,0	10,5	164	240 0005 020	20 × 2 × 0,5	304,0	18,2	525
240 0001 018	18 × 2 × 0,14	128,0	11,1	177	240 0005 025	25 × 2 × 0,5	360,0	20,1	622
240 0001 020	20 × 2 × 0,14	138,0	11,4	193	240 0005 032	32 × 2 × 0,5	477,0	22,2	805
240 0001 024	24 × 2 × 0,14	158,0	12,5	238					
240 0001 025	25 × 2 × 0,14	162,0	12,8	242	240 0007 002	2 × 2 × 0,75	60,0	8,4	106
240 0001 026	26 × 2 × 0,14	167,0	12,8	245	240 0007 003	3 × 2 × 0,75	92,0	9,4	140
240 0001 030	30 × 2 × 0,14	187,0	13,5	285	240 0007 004	4 × 2 × 0,75	115,0	10,3	179
240 0001 032	32 × 2 × 0,14	194,0	13,5	295	240 0007 005	5 × 2 × 0,75	128,0	11,5	215
240 0001 034	34 × 2 × 0,14	199,0	14,5	315	240 0007 006	6 × 2 × 0,75	146,0	12,1	246
240 0001 036	36 × 2 × 0,14	204,0	14,5	327	240 0007 008	8 × 2 × 0,75	180,0	13,3	305
240 0001 044	44 × 2 × 0,14	227,0	16,2	381	240 0007 016	16 × 2 × 0,75	330,0	18,7	564
					240 0007 020	20 × 2 × 0,75	434,0	21,1	671
240 0002 002	2 × 2 × 0,25	28,0	6,1	46	240 0007 025	25 × 2 × 0,75	530,0	22,5	805
240 0002 003	3 × 2 × 0,25	35,0	6,5	57					
240 0002 004	4 × 2 × 0,25	47,0	7,3	73	240 0010 002	2 × 2 × 1,0	82,0	9,1	136
240 0002 005	5 × 2 × 0,25	52,0	8,0	88	240 0010 003	3 × 2 × 1,0	103,0	10,0	174
240 0002 006	6 × 2 × 0,25	70,0	8,3	100	240 0010 004	4 × 2 × 1,0	132,0	11,1	226
240 0002 008	8 × 2 × 0,25	84,0	9,3	118	240 0010 005	5 × 2 × 1,0	161,0	12,2	266
240 0002 010	10 × 2 × 0,25	110,0	10,3	165	240 0010 010	10 × 2 × 1,0	282,0	16,0	484
240 0002 012	12 × 2 × 0,25	128,0	10,8	190	240 0010 012	12 × 2 × 1,0	324,0	17,6	552
240 0002 016	16 × 2 × 0,25	161,0	12,3	220	240 0010 016	16 × 2 × 1,0	412,0	19,2	695
240 0002 024	24 × 2 × 0,25	230,0	14,4	333	240 0010 020	20 × 2 × 1,0	505,0	21,4	850
240 0002 025	25 × 2 × 0,25	240,0	15,0	336	240 0010 025	25 × 2 × 1,0	610,0	22,4	1020
240 0002 032	32 × 2 × 0,25	258,0	16,8	423					
240 0002 040	40 × 2 × 0,25	349,0	17,9	513	240 0015 002	2 × 2 × 1,5	119,0	10,2	168
240 0002 050	50 × 2 × 0,25	403,0	20,0	644	240 0015 003	3 × 2 × 1,5	139,0	12,2	228
					240 0015 004	4 × 2 × 1,5	176,0	13,5	286
240 0003 002	2 × 2 × 0,34	36,0	7,1	64	240 0015 005	5 × 2 × 1,5	214,0	14,6	340
240 0003 003	3 × 2 × 0,34	46,0	7,7	86	240 0015 008	8 × 2 × 1,5	322,0	17,3	522
240 0003 004	4 × 2 × 0,34	61,0	8,4	113	240 0015 010	10 × 2 × 1,5	380,0	18,9	615
240 0003 005	5 × 2 × 0,34	69,0	9,4	115	240 0015 012	12 × 2 × 1,5	442,0	20,5	712
240 0003 006	6 × 2 × 0,34	78,0	9,9	137	240 0015 016	16 × 2 × 1,5	572,0	23,4	927
240 0003 007	7 × 2 × 0,34	91,0	9,9	145	240 0015 020	20 × 2 × 1,5	705,0	26,8	1115
240 0003 008	8 × 2 × 0,34	97,0	10,8	161	240 0015 025	25 × 2 × 1,5	862,0	29,3	1350
240 0003 010	10 × 2 × 0,34	131,0	12,0	230					
240 0003 012	12 × 2 × 0,34	148,0	13,2	236					
240 0003 016	16 × 2 × 0,34	164,0	14,6	270					
240 0003 018	18 × 2 × 0,34	198,0	15,6	300					
240 0003 025	25 × 2 × 0,34	279,0	18,2	414					
240 0003 040	40 × 2 × 0,34	427,0	22,2	746					
240 0003 050	50 × 2 × 0,34	515,0	24,6	922					



CC-data cable blue LiYCY-(TP)-128

Twisted pair data cable with blue outer sheath, shielded
For intrinsically safe electric circuits
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 128 20x2x0,5 LiYCY(TP) CE

The shielded CC-data cable blue LiYCY-(TP)-128 corresponds to the stipulations of VDE 0165 section 6.1.3.2.3 and is suitable as a data cable for interference-free transmission of analogue and digital signals for intrinsically safe electric circuits. The overall shield ensures a reliable transmission of data and impulses and protects against electrical interferences.

For stipulations appertaining to specific applications refer to VDE 0165.

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in short lengths, pairs twisted in layers, foil wrapping, tinned copper drain wire, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour blue (RAL 5015).

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
128 0005 002	2 × 2 × 0,50	54,0	7,7	98
128 0005 003	3 × 2 × 0,50	70,0	9,1	130
128 0005 004	4 × 2 × 0,50	91,0	10,3	155
128 0005 006	6 × 2 × 0,50	120,0	12,3	208
128 0005 008	8 × 2 × 0,50	144,0	13,3	264
128 0005 012	12 × 2 × 0,50	237,0	15,3	353
128 0005 016	16 × 2 × 0,50	254,0	17,9	470
128 0005 020	20 × 2 × 0,50	304,0	19,2	525
128 0005 025	25 × 2 × 0,50	360,0	20,9	622
128 0007 002	2 × 2 × 0,75	60,0	8,8	106
128 0007 003	3 × 2 × 0,75	92,0	9,7	140
128 0007 004	4 × 2 × 0,75	115,0	11,0	179
128 0007 006	6 × 2 × 0,75	146,0	13,3	246
128 0007 008	8 × 2 × 0,75	180,0	14,9	305
128 0007 012	12 × 2 × 0,75	270,0	17,9	456
128 0007 016	16 × 2 × 0,75	330,0	20,1	564
128 0007 020	20 × 2 × 0,75	434,0	21,6	671
128 0007 025	25 × 2 × 0,75	530,0	24,4	805

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

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CC-data cable LiYCY-CY-224

Core and overall shield, core colours acc. to DIN 47100
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 224 3x0,25 LiYCY-CY CE



The flexible CC-data cable LiYCY-CY-224 with shielded cores and an overall copper shield is suitable for extensive interference-free transmissions when electromagnetic compatibility (EMC) is required. In order to avoid reciprocal influences within the data cable, every core is separately shielded.

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100.

Every core is copper shielded and PVC sheathed. Cores twisted in layers, foil wrapping, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7032).

Technical data

Rated voltage:
300 V

Test voltage:
1200 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
224 0001 002	2 × 0,14	36,5	6,1	63
224 0001 003	3 × 0,14	42,1	6,4	72
224 0001 004	4 × 0,14	51,3	7,1	86
224 0001 005	5 × 0,14	61,4	7,7	103
224 0001 007	7 × 0,14	78,0	8,3	131
224 0002 002	2 × 0,25	41,5	6,4	69
224 0002 003	3 × 0,25	53,0	7,2	106
224 0002 004	4 × 0,25	65,0	7,8	130
224 0002 005	5 × 0,25	78,0	8,5	161
224 0002 007	7 × 0,25	94,0	9,2	196

ConCab kabel connects the world

CC-data cable LiYCY-CY-(TP)-241



Paired and overall shield, core colours acc. to DIN 47100
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 241 3x2x0,25 LiYCY-CY(TP) CE



The flexible CC-data cable LiYCY-CY-(TP)-241 with individually shielded pairs and overall shield is used as a link-up cable in electronics, measurement, control and regulating technology. The shielded pairs ensure interference-free transmission. Each shielded pair with PVC contact protection so as to avoid voltage interference. Synchronized twisted core pair lengths cause minimum coupling values.

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100. Cores twisted in pairs tinned copper shield, pairs with PVC sheath, sheathed pairs in layers, foil wrapping, tinned copper drain wire, overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1) Colour grey (RAL 7032).

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
241 0001 002	2 × 2 × 0,14	35,0	7,5	95
241 0001 003	3 × 2 × 0,14	45,0	7,8	101
241 0001 004	4 × 2 × 0,14	54,0	9,5	134
241 0001 005	5 × 2 × 0,14	62,0	10,5	157
241 0001 006	6 × 2 × 0,14	71,0	11,0	185
241 0001 007	7 × 2 × 0,14	82,0	11,0	227
241 0001 008	8 × 2 × 0,14	97,0	13,0	245
241 0001 009	9 × 2 × 0,14	110,0	14,0	278
241 0001 010	10 × 2 × 0,14	112,0	14,0	325
241 0001 012	12 × 2 × 0,14	140,0	15,1	380
241 0001 016	16 × 2 × 0,14	179,0	17,2	440
241 0001 020	20 × 2 × 0,14	230,0	17,8	520
241 0002 002	2 × 2 × 0,25	55,0	9,7	125
241 0002 003	3 × 2 × 0,25	68,0	10,0	140
241 0002 004	4 × 2 × 0,25	80,9	12,1	205
241 0002 005	5 × 2 × 0,25	98,1	12,3	230
241 0002 006	6 × 2 × 0,25	129,6	13,2	275
241 0002 007	7 × 2 × 0,25	142,5	13,2	295
241 0002 008	8 × 2 × 0,25	162,9	15,5	330
241 0002 010	10 × 2 × 0,25	210,5	16,6	420
241 0002 012	12 × 2 × 0,25	236,6	17,0	465
241 0002 016	16 × 2 × 0,25	300,0	21,0	578
241 0002 020	20 × 2 × 0,25	335,0	22,6	618
241 0002 024	24 × 2 × 0,25	456,0	27,5	678

Technical data

Rated voltage:
300 V

Test voltage:
1200 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Impedance:
approx. 80 Ohm

Inductance:
approx. 0,67 mH/km

Capacitance at 800 Hz:
core/core: approx. 120 -150 nF/km
core/shield: approx. 180 -240 nF/km

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

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CC-data cable LiY-LiYDY-Y-222

With respectively 1 or 2 shielded cores
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 222 2x0,5+1x0,25 LiY-LiYCY-Y CE

The flexible CC-data cable LiY-LiYDY-Y-222 with respectively 1 or 2 individually shielded cores is used as a link-up cable in electronics, measurement, control and regulating technology. The shielded cores ensure an interference-free transmission. The shielded cores are PVC sheathed.

Construction

Fine strands of bare copper wire. PVC core insulation, core colours acc. to DIN 47100, 1 or 2 cores individually copper shielded and PVC sheathed. All cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

Rated voltage:
300 V

Test voltage (core/core):
1200 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Capacitance at 800 Hz:
core/core: approx. 80 nF/km
core/shield: approx. 180 nF/km

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to + 80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 15 × cable diameter

Approvals:
acc. to VDE 0281, 0812

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
222 0225 125	2 × 0,25+1 × (0,25)	11,5	4,8	35
222 0325 125	3 × 0,25+1 × (0,25)	13,9	5,1	41
222 0425 125	4 × 0,25+1 × (0,25)	16,3	5,4	45
222 0625 125	6 × 0,25+1 × (0,25)	21,1	6,1	54
222 0725 125	7 × 0,25+1 × (0,25)	23,5	6,1	62
222 1025 125	10 × 0,25+1 × (0,25)	30,7	7,5	76
222 2052 05	2 × 0,5+2 × (0,5)	34,4	8,4	91
222 4052 05	4 × 0,5+2 × (0,5)	44,0	8,9	120
222 6052 05	6 × 0,5+2 × (0,5)	53,6	10,0	145
222 8052 05	8 × 0,5+2 × (0,5)	63,2	10,1	156
222 1005 205	10 × 0,5+2 × (0,5)	72,8	11,3	187
222 1405 205	14 × 0,5+2 × (0,5)	92,0	11,5	231

ConCab kabel connects the world



CC-data cable LiFYDY-243

High flexible miniature electronic cable, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 243 12x0,08 LiFYCY CE

The CC-data cable LiFYDY-243 shielded is suitable as a highly flexible link-up cable for electronic appliances. The copper shield ensures reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire. PVC core insulation. Core colours acc. to DIN 47100, cores twisted in layers, foil wrapping, tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

Rated voltage:
100 V

Test voltage:
800 V

Conductor stranding:
superfine copper strands,
single wire diameter 0,05 mm

Capacitance at 800 Hz:
core/core: approx. 100 nF/km
core/shield: approx. 120 nF/km

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 7,5 × cable diameter

Approvals:
acc. to VDE 0812

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
243 0500 503	3×0,05	6,0	3,1	14,8
243 0500 504	4×0,05	7,0	3,3	16,0
243 0500 505	5×0,05	8,3	3,6	18,8
243 0500 507	7×0,05	9,0	3,8	21,9
243 0500 512	12×0,05	14,5	5,1	36,4
243 0500 518	18×0,05	20,0	5,5	52,0
243 0500 524	24×0,05	24,4	6,6	62,5
243 0500 802	2×0,08	7,6	3,8	20,0
243 0500 803	3×0,08	8,4	4,0	21,8
243 0500 804	4×0,08	10,1	4,2	24,2
243 0500 807	7×0,08	14,0	4,7	31,8
243 0500 812	12×0,08	23,0	6,3	53,4
243 0500 818	18 x 0,08	32,0	6,4	75,6

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CC-data cable LiFYCY-(TP)-244

High flexible miniature electronic cable, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 244 6x2x0,20 LiFYCY(TP) CE



The paired CC-data cable LiFYCY-(TP)-244 is suitable as a highly flexible link-up cable for electronic appliances. Synchronized twisted core pair lengths cause minimum coupling values. The copper shield ensures a reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire.
PVC core insulation, core colours
acc. to DIN 47100, core pairs twisted in
layers, foil wrapping, tinned copper drain
wire, overall tinned copper shield.
PVC outer sheath,
flame retardant and self-extinguishing
(acc. to VDE 0482, part 265-2-1 resp.
EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7032).

Technical data

Rated voltage:
0,08 mm²: 100 V
0,20 mm²: 250 V

Test voltage:
0,08 mm²: 800 V
0,20 mm²: 1200 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6
single wire diameter 0,05 mm

Capacitance at 800 Hz:
core/core: approx. 80-120 nF/km
core/shield: approx. 120-160 nF/km

Capacitance coupling at 1 kHz:
200 pF/100m to 300 pF/100m

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 7,5 × cable diameter

Approvals:
acc. to VDE 0812

Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
244 05 008 03	3 × 2 × 0,08	14,6	4,9	32,0
244 05 008 04	4 × 2 × 0,08	17,3	5,1	37,0
244 05 008 06	6 × 2 × 0,08	22,4	6,2	48,0
244 05 008 08	8 × 2 × 0,08	38,1	6,7	76,0
244 05 008 12	12 × 2 × 0,08	48,1	8,3	96,0
244 05 008 18	18 × 2 × 0,08	64,8	9,3	138,0
244 05 020 02	2 × 2 × 0,20	24,0	6,0	60,0
244 05 020 03	3 × 2 × 0,20	35,0	6,6	70,0
244 05 020 04	4 × 2 × 0,20	45,0	7,1	80,0
244 05 020 05	5 × 2 × 0,20	54,0	7,9	90,0
244 05 020 06	6 × 2 × 0,20	56,0	8,5	100,0
244 05 020 07	7 × 2 × 0,20	68,0	8,9	120,0
244 05 020 08	8 × 2 × 0,20	72,0	9,3	130,0
244 05 020 10	10 × 2 × 0,20	108,0	9,9	150,0
244 05 020 12	12 × 2 × 0,20	125,0	10,3	180,0
244 05 020 16	16 × 2 × 0,20	144,0	12,5	210,0
244 05 020 18	18 × 2 × 0,20	155,0	13,0	230,0
244 05 020 20	20 × 2 × 0,20	216,0	13,9	250,0
244 05 020 24	24 × 2 × 0,20	228,0	14,8	330,0
244 05 020 32	32 × 2 × 0,20	269,0	16,6	400,0

Halogen-free data cable


ConCab
kabel gmbh



CC-data cable LiHH-217

Halogen-free, core colour acc. to DIN 47100
Conforms to the EU low voltage guideline 73/23/EEC CE



The flexible CC-data cable LiHH-217 is suitable as a control and signal cable in data, measurement and regulating technology. The halogen-free and flame retardant insulation and sheath mixture greatly improve the safety of humans and materials in the event of fire.

Construction

Fine strands of bare copper wire, halogen-free polymer mixture core insulation, core colours acc. to DIN 47100, cores twisted in layers. Outer sheath halogen-free polymer mixture, flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

Rated voltage:
 $\leq 0,34 \text{ mm}^2$: 300 V
 $> 0,34 \text{ mm}^2$: 300/500 V

Test voltage:
 $\leq 0,34 \text{ mm}^2$: 1200 V
 $> 0,34 \text{ mm}^2$: 2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
 $0,34 \text{ mm}^2$: 7-strands

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^\circ\text{C}$
flexible application: -5°C to $+70^\circ\text{C}$

Bending radius:
fixed installation: $7,5 \times$ cable diameter

Approvals:
acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,14	0,25	0,34	0,5	0,75	1,0	1,5
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57	≤ 39	≤ 26	$\leq 19,5$	$\leq 13,3$
Max. load (Ampere):	2	4	6	9	12	15	18
Capacitance at 800 Hz core/core (approx.nF/km):	40	40	40	45	50	65	70

CC-data cable LiHH-217

Halogen-free, core colour acc. to DIN 47100
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
217 0001 002	2 × 0,14	2,7	3,1	13	217 0003 002	2 × 0,34	6,5	4,0	24
217 0001 003	3 × 0,14	4,0	3,3	15	217 0003 003	3 × 0,34	9,8	4,2	27
217 0001 004	4 × 0,14	5,4	3,5	18	217 0003 004	4 × 0,34	13,1	4,6	33
217 0001 005	5 × 0,14	6,7	3,8	21	217 0003 005	5 × 0,34	16,3	5,0	40
217 0001 007	7 × 0,14	9,4	4,1	25	217 0003 007	7 × 0,34	22,8	5,5	49
217 0001 008	8 × 0,14	10,8	4,7	31	217 0003 008	8 × 0,34	26,1	6,5	63
217 0001 012	12 × 0,14	16,1	5,3	38	217 0003 012	12 × 0,34	39,2	7,3	80
217 0001 014	14 × 0,14	18,8	5,5	42	217 0003 014	14 × 0,34	45,7	7,9	94
217 0001 016	16 × 0,14	21,5	6,0	51	217 0003 016	16 × 0,34	52,2	8,3	106
217 0001 018	18 × 0,14	24,2	6,3	56	217 0003 018	18 × 0,34	58,8	8,8	117
217 0001 021	21 × 0,14	28,2	6,9	65	217 0003 021	21 × 0,34	68,5	10,0	146
217 0001 024	24 × 0,14	32,3	7,3	70	217 0003 024	24 × 0,34	78,3	10,6	157
217 0001 027	27 × 0,14	36,3	7,7	80	217 0003 027	27 × 0,34	88,1	10,8	172
217 0001 030	30 × 0,14	40,3	7,9	86	217 0003 030	30 × 0,34	97,9	11,2	187
217 0001 032	32 × 0,14	43,0	8,2	92	217 0003 032	32 × 0,34	104,4	11,6	199
217 0001 036	36 × 0,14	48,4	8,5	101	217 0003 036	36 × 0,34	117,5	12,1	220
217 0001 040	40 × 0,14	53,8	9,1	112	217 0003 040	40 × 0,34	130,6	12,9	244
217 0001 044	44 × 0,14	59,1	9,5	119	217 0003 044	44 × 0,34	143,6	13,5	261
217 0001 050	50 × 0,14	67,2	10,3	142	217 0003 050	50 × 0,34	163,2	14,5	304
217 0001 052	52 × 0,14	69,9	10,3	146	217 0003 052	52 × 0,34	169,7	14,5	313
217 0001 061	61 × 0,14	82,0	10,9	165	217 0003 061	61 × 0,34	199,1	15,4	358
217 0002 002	2 × 0,25	4,8	3,4	17	217 0005 002	2 × 0,5	9,6	4,3	28
217 0002 003	3 × 0,25	7,2	3,6	20	217 0005 003	3 × 0,5	14,4	4,5	33
217 0002 004	4 × 0,25	9,6	3,9	24	217 0005 004	4 × 0,5	19,2	4,9	40
217 0002 005	5 × 0,25	12,0	4,2	29	217 0005 005	5 × 0,5	24,0	5,4	49
217 0002 007	7 × 0,25	16,8	4,6	35	217 0005 007	7 × 0,5	33,6	6,1	63
217 0002 008	8 × 0,25	19,2	5,2	43	217 0005 008	8 × 0,5	38,4	7,1	79
217 0002 012	12 × 0,25	28,8	6,1	57	217 0005 012	12 × 0,5	57,6	8,1	102
217 0002 014	14 × 0,25	33,6	6,4	64	217 0005 014	14 × 0,5	67,2	8,5	115
217 0002 016	16 × 0,25	38,4	6,7	72	217 0005 016	16 × 0,5	76,8	9,0	131
217 0002 018	18 × 0,25	43,2	7,1	80	217 0005 018	18 × 0,5	86,4	9,5	145
217 0002 021	21 × 0,25	50,4	7,9	96	217 0005 021	21 × 0,5	100,8	10,9	180
217 0002 024	24 × 0,25	57,6	8,4	104	217 0005 024	24 × 0,5	115,2	11,5	195
217 0002 027	27 × 0,25	64,8	8,6	114	217 0005 027	27 × 0,5	129,6	11,7	213
217 0002 030	30 × 0,25	72,0	8,9	125	217 0005 030	30 × 0,5	144,0	12,1	232
217 0002 032	32 × 0,25	76,8	9,2	132	217 0005 032	32 × 0,5	153,6	12,6	248
217 0002 036	36 × 0,25	86,4	10,0	156	217 0005 036	36 × 0,5	172,8	13,1	274
217 0002 040	40 × 0,25	96,0	10,6	173	217 0005 044	44 × 0,5	211,2	15,1	341
217 0002 044	44 × 0,25	105,6	11,1	184	217 0005 050	50 × 0,5	240,0	15,7	411
217 0002 050	50 × 0,25	120,0	11,6	204	217 0005 061	61 × 0,5	292,8	16,7	448
217 0002 052	52 × 0,25	124,8	11,6	211					
217 0002 061	61 × 0,25	146,4	12,3	241					

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
217 0007 002	2 × 0,75	14,4	4,9	38
217 0007 003	3 × 0,75	21,6	5,2	45
217 0007 004	4 × 0,75	29,0	5,9	58
217 0007 005	5 × 0,75	36,0	6,4	70
217 0007 007	7 × 0,75	50,0	7,0	87
217 0007 008	8 × 0,75	58,0	8,3	111
217 0007 012	12 × 0,75	86,0	9,4	142
217 0007 014	14 × 0,75	101,0	10,3	170
217 0007 016	16 × 0,75	115,0	10,8	192
217 0007 018	18 × 0,75	130,0	11,4	213
217 0007 021	21 × 0,75	151,0	12,5	248
217 0007 024	24 × 0,75	173,0	13,3	270
217 0007 027	27 × 0,75	195,0	13,6	297
217 0007 030	30 × 0,75	216,0	14,5	339
217 0007 032	32 × 0,75	230,0	15,0	360
217 0007 036	36 × 0,75	259,0	15,6	399
217 0010 002	2 × 1,0	19,2	5,1	43
217 0010 003	3 × 1,0	29,0	5,4	53
217 0010 004	4 × 1,0	38,4	6,1	68
217 0010 005	5 × 1,0	48,0	6,7	82
217 0010 006	6 × 1,0	58,0	7,3	97
217 0010 007	7 × 1,0	67,0	7,3	104
217 0015 002	2 × 1,5	29,0	5,6	55
217 0015 003	3 × 1,5	43,0	6,1	71
217 0015 004	4 × 1,5	58,0	6,7	87
217 0015 005	5 × 1,5	72,0	7,7	113
217 0015 006	6 × 1,5	86,0	8,4	134
217 0015 007	7 × 1,5	101,0	8,4	144





CC-data cable LiHCH-227

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 227 12x0,25 LiHCH CE

The flexible CC-data cable LiHCH-227 shielded is suitable as a control and signal cable in data, measurement and regulating technology. The halogen-free and flame retardant insulation and sheath mixture ensure a greatly improved protection for humans and materials in the event of fire. The overall tinned copper shield ensures reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire, halogen-free polymer mixture insulation, core colours acc. to DIN 47100, cores twisted in layers, foil wrapping, overall tinned copper shield.

Outer sheath halogen-free polymer mixture, flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL7032).

Technical data

Rated voltage:

≤ 0,34 mm²: 300 V
> 0,34 mm²: 300/500 V

Test voltage:

≤ 0,34 mm²: 1200 V
> 0,34 mm²: 2000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 7,5 × cable diameter

Approvals:

acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,14	0,25	0,34	0,5	0,75	1,0	1,5
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57	≤ 39	≤ 26	≤ 19,5	≤ 13,3
Max. load (Ampere):	2	4	6	9	12	15	18
Capacitance at 800 Hz core/core (approx.nF/km):	40	40	40	45	50	65	70

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
227 0001 002	2 × 0,14	12,6	3,6	20	227 0002 021	21 × 0,25	105,0	8,8	122
227 0001 003	3 × 0,14	14,1	3,8	22	227 0002 024	24 × 0,25	115,0	9,3	130
227 0001 004	4 × 0,14	15,9	4,0	24	227 0002 027	27 × 0,25	120,0	9,5	142
227 0001 005	5 × 0,14	19,5	4,3	29	227 0002 030	30 × 0,25	132,0	9,8	152
227 0001 007	7 × 0,14	24,0	4,6	33	227 0002 032	32 × 0,25	138,0	10,1	161
227 0001 008	8 × 0,14	26,0	5,4	43	227 0002 036	36 × 0,25	152,0	10,7	189
227 0001 010	10 × 0,14	29,0	5,8	47	227 0002 040	40 × 0,25	164,0	11,3	209
227 0001 012	12 × 0,14	32,0	6,2	54	227 0002 044	44 × 0,25	180,0	11,8	221
227 0001 014	14 × 0,14	35,0	6,4	60	227 0002 050	50 × 0,25	222,0	12,7	254
227 0001 016	16 × 0,14	49,0	6,7	67	227 0002 052	52 × 0,25	234,0	12,7	260
227 0001 018	18 × 0,14	54,0	7,0	72	227 0002 061	61 × 0,25	287,0	13,4	295
227 0001 021	21 × 0,14	60,0	7,6	84					
227 0001 024	24 × 0,14	74,0	8,0	89	227 0003 002	2 × 0,34	17,0	4,5	31
227 0001 027	27 × 0,14	85,0	8,6	104	227 0003 003	3 × 0,34	21,0	4,9	36
227 0001 030	30 × 0,14	98,0	8,8	112	227 0003 004	4 × 0,34	25,0	5,3	43
227 0001 032	32 × 0,14	108,0	9,1	118	227 0003 005	5 × 0,34	30,0	5,7	51
227 0001 036	36 × 0,14	117,0	9,4	128	227 0003 007	7 × 0,34	42,0	6,4	63
227 0001 040	40 × 0,14	126,0	10,0	141	227 0003 008	8 × 0,34	45,0	7,2	78
227 0001 044	44 × 0,14	138,0	10,6	162	227 0003 010	10 × 0,34	63,0	7,8	87
227 0001 050	50 × 0,14	150,0	11,0	175	227 0003 012	12 × 0,34	70,0	8,0	97
227 0001 052	52 × 0,14	155,0	11,0	179	227 0003 014	14 × 0,34	78,0	8,8	118
227 0001 061	61 × 0,14	176,0	11,6	203	227 0003 016	16 × 0,34	87,0	9,2	129
					227 0003 018	18 × 0,34	108,0	9,7	144
227 0002 002	2 × 0,25	15,0	3,9	24	227 0003 021	21 × 0,34	127,0	10,7	177
227 0002 003	3 × 0,25	18,0	4,1	26	227 0003 024	24 × 0,34	140,0	11,3	193
227 0002 004	4 × 0,25	22,0	4,4	31	227 0003 027	27 × 0,34	151,0	11,5	207
227 0002 005	5 × 0,25	25,0	4,9	38	227 0003 030	30 × 0,34	162,0	11,9	222
227 0002 007	7 × 0,25	32,0	5,3	46	227 0003 032	32 × 0,34	171,0	12,7	247
227 0002 008	8 × 0,25	35,0	6,1	58	227 0003 036	36 × 0,34	188,0	13,2	272
227 0002 010	10 × 0,25	42,0	6,6	64	227 0003 040	40 × 0,34	208,0	14,0	301
227 0002 012	12 × 0,25	50,0	6,8	72	227 0003 044	44 × 0,34	223,0	14,6	319
227 0002 014	14 × 0,25	64,0	7,1	80	227 0003 050	50 × 0,34	248,0	15,8	386
227 0002 016	16 × 0,25	71,0	7,4	89	227 0003 052	52 × 0,34	273,0	15,8	395
227 0002 018	18 × 0,25	80,0	7,8	98	227 0003 061	61 × 0,34	316,0	16,7	366



CC-data cable LiHCH-227

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
227 0005 002	2 × 0,5	23,5	5,0	35
227 0005 003	3 × 0,5	28,4	5,2	42
227 0005 004	4 × 0,5	35,1	5,6	50
227 0005 005	5 × 0,5	41,6	6,3	63
227 0005 007	7 × 0,5	53,1	6,8	76
227 0005 008	8 × 0,5	62,0	7,8	94
227 0005 010	10 × 0,5	74,5	8,8	113
227 0005 012	12 × 0,5	84,2	9,0	126
227 0005 014	14 × 0,5	93,5	9,4	139
227 0005 016	16 × 0,5	105,9	9,9	156
227 0005 018	18 × 0,5	133,9	10,6	185
227 0005 021	21 × 0,5	154,9	11,6	220
227 0005 024	24 × 0,5	169,7	12,6	241
227 0005 027	27 × 0,5	184,2	12,8	260
227 0005 030	30 × 0,5	203,6	13,2	283
227 0005 032	32 × 0,5	213,5	13,7	299
227 0005 036	36 × 0,5	239,0	14,2	330
227 0005 044	44 × 0,5	309,2	16,4	422
227 0005 050	50 × 0,5	349,7	17,0	469
227 0005 061	61 × 0,5	403,7	18,0	540
227 0007 002	2 × 0,75	30,3	5,6	48
227 0007 003	3 × 0,75	37,6	6,1	56
227 0007 004	4 × 0,75	46,5	6,6	68
227 0007 005	5 × 0,75	55,7	7,1	81
227 0007 007	7 × 0,75	74,0	7,7	101
227 0007 008	8 × 0,75	83,8	9,2	132
227 0007 012	12 × 0,75	133,9	10,5	179
227 0007 014	14 × 0,75	148,2	11,0	198
227 0007 016	16 × 0,75	169,2	11,5	224
227 0007 018	18 × 0,75	184,0	12,4	257
227 0007 021	21 × 0,75	211,0	13,6	297
227 0007 024	24 × 0,75	239,1	14,4	324
227 0007 027	27 × 0,75	260,9	14,7	352
227 0007 030	30 × 0,75	313,4	15,8	417
227 0007 032	32 × 0,75	328,3	16,3	440
227 0007 036	36 × 0,75	357,8	16,9	479
227 0010 002	2 × 1,0	35,2	5,8	53
227 0010 003	3 × 1,0	46,4	6,3	65
227 0010 004	4 × 1,0	57,9	6,8	78
227 0010 005	5 × 1,0	69,6	7,4	95
227 0010 006	6 × 1,0	81,3	8,0	111
227 0010 007	7 × 1,0	90,9	8,0	117
227 0015 002	2 × 1,5	46,5	6,5	69
227 0015 003	3 × 1,5	62,7	6,8	90
227 0015 004	4 × 1,5	79,3	7,4	98
227 0015 005	5 × 1,5	95,8	8,6	130
227 0015 006	6 × 1,5	112,7	9,3	152
227 0015 007	7 × 1,5	127,1	9,3	162



CC-data cable LiHCH-(TP)-228

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 228 2x2x0,34 LiHCH(TP) CE



The flexible CC-data cable LiHCH-(TP)-228 shielded is suitable as a control and signal cable in data, measurement and regulating technology. The halogen-free and flame retardant insulation ensure a greatly improved protection for humans and materials in the event of fire. Synchronized twisted core pair lengths cause minimum coupling values. The overall tinned copper shield ensures reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire, halogen-free polymer mixture insulation, core colours acc. to DIN 47100, cores twisted in pairs, pairs twisted in layers, foil wrapping, overall tinned copper shield. Outer sheath halogen-free polymer mixture, flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

Rated voltage:
 $\leq 0,34 \text{ mm}^2$: 300 V
 $> 0,34 \text{ mm}^2$: 300/500 V

Test voltage:
 $\leq 0,34 \text{ mm}^2$: 1200 V
 $> 0,34 \text{ mm}^2$: 2000 V

Conductor stranding:
 fine copper strands
 acc. to VDE 0295, class 5
 $0,34 \text{ mm}^2$: 7-strands

Insulation resistance:
 min. 20 MOhm \times km

Temperature range:
 fixed installation: -30°C to $+80^\circ\text{C}$
 flexible application: -5°C to $+70^\circ\text{C}$

Bending radius:
 fixed installation: $7,5 \times$ cable diameter

Approvals:
 acc. to VDE 0281, 0812

Conductor cross-section (mm ²):	0,14	0,25	0,34	0,5	0,75
Loop resistance (Ohm/km):	≤ 276	≤ 158	≤ 114	≤ 78	≤ 52
Max. load (Ampere):	2	4	6	9	12
Capacitance at 800 Hz core/core (approx.nF/km):	40	40	40	45	50



CC-data cable LiHCH-(TP)-228

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
228 0001 002	2 × 2 × 0,14	19,1	5,2	36	228 0005 002	2 × 2 × 0,5	48,0	7,2	66
228 0001 003	3 × 2 × 0,14	23,4	5,7	42	228 0005 003	3 × 2 × 0,5	74,0	7,9	83
228 0001 004	4 × 2 × 0,14	27,8	6,5	51	228 0005 004	4 × 2 × 0,5	82,0	9,4	112
228 0001 005	5 × 2 × 0,14	34,9	7,0	61	228 0005 005	5 × 2 × 0,5	94,0	10,2	129
228 0001 006	6 × 2 × 0,14	46,2	7,2	68	228 0005 006	6 × 2 × 0,5	110,0	10,4	144
228 0001 008	8 × 2 × 0,14	53,4	7,8	79	228 0005 008	8 × 2 × 0,5	139,0	11,4	182
228 0001 010	10 × 2 × 0,14	59,0	8,9	100	228 0005 010	10 × 2 × 0,5	178,0	13,2	225
228 0001 012	12 × 2 × 0,14	66,0	9,7	110	228 0005 012	12 × 2 × 0,5	198,0	14,4	263
228 0001 016	16 × 2 × 0,14	79,0	10,5	133	228 0005 018	18 × 2 × 0,5	284,0	16,9	388
228 0001 018	18 × 2 × 0,14	92,8	11,1	154					
228 0001 025	25 × 2 × 0,14	114,8	12,8	198	228 0007 002	2 × 2 × 0,75	58,0	8,5	99
					228 0007 003	3 × 2 × 0,75	84,0	9,4	112
228 0002 002	2 × 2 × 0,25	28,0	5,7	43	228 0007 004	4 × 2 × 0,75	108,0	10,9	150
228 0002 003	3 × 2 × 0,25	39,0	6,4	56	228 0007 005	5 × 2 × 0,75	128,0	11,7	180
228 0002 004	4 × 2 × 0,25	45,0	7,2	71	228 0007 006	6 × 2 × 0,75	146,0	12,5	216
228 0002 005	5 × 2 × 0,25	55,0	7,7	77	228 0007 008	8 × 2 × 0,75	180,0	13,7	252
228 0002 006	6 × 2 × 0,25	69,5	7,9	88	228 0007 012	12 × 2 × 0,75	261,0	17,1	379
228 0002 008	8 × 2 × 0,25	77,0	9,0	106	228 0007 018	18 × 2 × 0,75	390,0	19,3	519
228 0002 010	10 × 2 × 0,25	102,0	9,8	131					
228 0002 012	12 × 2 × 0,25	120,0	10,9	158					
228 0002 016	16 × 2 × 0,25	146,0	11,9	190					
228 0002 018	18 × 2 × 0,25	175,0	12,7	218					
228 0002 025	25 × 2 × 0,25	205,0	14,2	264					
228 0003 002	2 × 2 × 0,34	31,5	6,8	60					
228 0003 003	3 × 2 × 0,34	46,0	7,4	73					
228 0003 004	4 × 2 × 0,34	61,0	8,8	99					
228 0003 005	5 × 2 × 0,34	69,0	9,5	115					
228 0003 006	6 × 2 × 0,34	78,0	9,7	124					
228 0003 008	8 × 2 × 0,34	97,0	10,6	140					
228 0003 012	12 × 2 × 0,34	148,0	13,4	221					
228 0003 018	18 × 2 × 0,34	192,0	15,1	294					

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CC-data cable Li2YH-216

Halogen-free, core colour acc. to DIN 47100
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 216 24x0,75 Li2YH CE

The flexible CC-data cable Li2YH-216 is suitable as a control and signal cable in data, measurement and regulating technology. The halogen-free and flame retardant sheath ensures greatly improved protection for humans and materials in the event of fire.

Construction

Fine strands of bare copper wire.
PE core insulation, core colours acc. to DIN 47100, cores twisted in layers. Outer sheath halogen-free polymer mixture, flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7032).

Technical data

Rated voltage:

≤ 0,14 mm²: 250 V
> 0,14 mm²: 300 V

Test voltage:

≤ 0,14 mm²: 800 V
> 0,14 mm²: 1200 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:

min. 5 GOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 7,5 × cable diameter

Approvals:

acc. to VDE 0281, 0812

Conductor cross-section (mm²):	0,14	0,25	0,34	0,5	0,75	1,0	1,5
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57	≤ 39	≤ 26	≤ 19,5	≤ 13,3
Max. load (Ampere):	2	4	6	9	12	15	18
Capacitance at 800 Hz core/core (approx.nF/km):	40	40	40	45	50	65	70

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CC-data cable Li2YH-216

Halogen-free, core colour acc. to DIN 47100
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
216 0001 002	2 × 0,14	2,7	3,2	13	216 0003 002	2 × 0,34	6,5	4,2	24
216 0001 003	3 × 0,14	4,0	3,4	15	216 0003 003	3 × 0,34	9,8	4,4	27
216 0001 004	4 × 0,14	5,4	5,4	18	216 0003 004	4 × 0,34	13,1	4,6	33
216 0001 005	5 × 0,14	6,7	3,9	21	216 0003 005	5 × 0,34	16,3	5,5	40
216 0001 006	6 × 0,14	8,1	4,2	25	216 0003 006	6 × 0,34	19,6	5,9	45
216 0001 007	7 × 0,14	9,4	4,2	27	216 0003 007	7 × 0,34	22,8	5,9	49
216 0001 008	8 × 0,14	10,8	4,5	29	216 0003 008	8 × 0,34	26,1	6,6	63
216 0001 009	9 × 0,14	12,1	5,2	32	216 0003 010	10 × 0,34	32,6	7,6	72
216 0001 010	10 × 0,14	13,4	5,4	35	216 0003 012	12 × 0,34	39,2	7,8	80
216 0001 012	12 × 0,14	16,1	5,6	38	216 0003 014	14 × 0,34	45,7	7,9	94
216 0001 014	14 × 0,14	18,8	5,8	41	216 0003 016	16 × 0,34	52,2	8,7	106
216 0001 016	16 × 0,14	21,5	6,1	52	216 0003 018	18 × 0,34	58,8	8,8	117
216 0001 018	18 × 0,14	24,2	6,3	56	216 0003 021	21 × 0,34	68,5	10,0	146
216 0001 021	21 × 0,14	28,2	6,9	65	216 0003 024	24 × 0,34	78,3	10,6	157
216 0001 024	24 × 0,14	32,3	7,3	70	216 0003 027	27 × 0,34	88,1	10,8	172
216 0001 027	27 × 0,14	36,3	7,7	80	216 0003 030	30 × 0,34	97,9	11,2	187
216 0001 030	30 × 0,14	40,3	7,9	86	216 0003 032	32 × 0,34	104,4	11,6	199
216 0001 032	32 × 0,14	43,0	8,2	92	216 0003 036	36 × 0,34	117,5	12,1	220
216 0001 036	36 × 0,14	48,4	8,5	101	216 0003 040	40 × 0,34	130,6	12,9	244
216 0001 040	40 × 0,14	53,8	9,1	112	216 0003 044	44 × 0,34	143,6	13,5	261
216 0001 044	44 × 0,14	59,1	9,5	119	216 0003 050	50 × 0,34	163,2	14,5	304
216 0001 050	50 × 0,14	67,2	10,3	142	216 0003 052	52 × 0,34	169,7	14,5	313
216 0001 052	52 × 0,14	69,9	10,3	146	216 0003 061	61 × 0,34	199,1	15,4	358
216 0001 061	61 × 0,14	82,0	10,9	165					
					216 0005 002	2 × 0,5	9,6	4,3	28
216 0002 002	2 × 0,25	4,8	3,8	17	216 0005 003	3 × 0,5	14,4	4,5	33
216 0002 003	3 × 0,25	7,2	4,0	20	216 0005 004	4 × 0,5	19,2	4,9	40
216 0002 004	4 × 0,25	9,6	4,4	24	216 0005 005	5 × 0,5	24,0	5,4	49
216 0002 005	5 × 0,25	12,0	4,7	29	216 0005 007	7 × 0,5	33,6	6,1	63
216 0002 006	6 × 0,25	14,4	5,1	32	216 0005 008	8 × 0,5	38,4	7,1	79
216 0002 007	7 × 0,25	16,8	5,1	35	216 0005 012	12 × 0,5	57,6	8,1	102
216 0002 008	8 × 0,25	19,2	5,7	43	216 0005 014	14 × 0,5	67,2	8,5	115
216 0002 010	10 × 0,25	24,0	6,8	50	216 0005 016	16 × 0,5	76,8	9,0	131
216 0002 012	12 × 0,25	28,8	7,0	57	216 0005 018	18 × 0,5	86,4	9,5	145
216 0002 014	14 × 0,25	33,6	7,3	64	216 0005 021	21 × 0,5	100,8	10,9	180
216 0002 016	16 × 0,25	38,4	7,7	72	216 0005 024	24 × 0,5	115,2	11,5	195
216 0002 018	18 × 0,25	43,2	7,7	80	216 0005 027	27 × 0,5	129,6	11,7	213
216 0002 021	21 × 0,25	50,4	7,9	96	216 0005 030	30 × 0,5	144,0	12,1	232
216 0002 024	24 × 0,25	57,6	8,4	104	216 0005 032	32 × 0,5	153,6	12,6	248
216 0002 027	27 × 0,25	64,8	8,6	114	216 0005 036	36 × 0,5	172,8	13,1	274
216 0002 030	30 × 0,25	72,0	8,9	125	216 0005 044	44 × 0,5	211,0	15,1	341
216 0002 032	32 × 0,25	76,8	9,2	132	216 0005 050	50 × 0,5	240,0	15,7	411
216 0002 036	36 × 0,25	86,4	10,0	156	216 0005 061	61 × 0,5	292,8	16,7	484
216 0002 040	40 × 0,25	96,0	10,6	173					
216 0002 044	44 × 0,25	105,6	11,1	184					
216 0002 050	50 × 0,25	120,0	11,6	204					
216 0002 052	52 × 0,25	124,8	11,6	211					
216 0002 061	61 × 0,25	146,4	12,3	241					

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
216 0007 002	2 × 0,75	14,4	4,9	38
216 0007 003	3 × 0,75	21,6	5,2	45
216 0007 004	4 × 0,75	28,0	5,9	58
216 0007 005	5 × 0,75	36,0	6,4	70
216 0007 007	7 × 0,75	50,4	7,0	87
216 0007 008	8 × 0,75	58,6	8,3	111
216 0007 012	12 × 0,75	86,4	9,4	142
216 0007 014	14 × 0,75	100,8	10,3	170
216 0007 016	16 × 0,75	115,2	10,8	192
216 0007 018	18 × 0,75	129,6	11,4	213
216 0007 021	21 × 0,75	151,2	12,5	248
216 0007 024	24 × 0,75	172,8	13,3	270
216 0007 027	27 × 0,75	194,4	13,6	297
216 0007 030	30 × 0,75	216,0	14,5	339
216 0007 032	32 × 0,75	230,4	15,0	360
216 0007 036	36 × 0,75	259,2	15,6	399
216 0007 040	40 × 0,75	288,0	16,7	443
216 0007 044	44 × 0,75	316,8	17,5	475
216 0007 050	50 × 0,75	360,0	18,3	530
216 0007 052	52 × 0,75	374,4	18,3	547
216 0007 061	61 × 0,75	439,2	19,8	648
216 0010 002	2 × 1,0	19,2	5,1	43
216 0010 003	3 × 1,0	29,0	5,4	53
216 0010 004	4 × 1,0	38,4	6,1	68
216 0010 005	5 × 1,0	48,0	6,7	82
216 0010 006	6 × 1,0	57,6	7,3	97
216 0010 007	7 × 1,0	67,2	7,3	104
216 0015 002	2 × 1,5	28,8	5,6	55
216 0015 003	3 × 1,5	43,2	6,1	71
216 0015 004	4 × 1,5	57,6	6,7	87
216 0015 005	5 × 1,5	72,0	7,7	113
216 0015 006	6 × 1,5	86,4	8,4	134
216 0015 007	7 × 1,5	100,8	8,4	144



CC-data cable Li2YCH-247

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 247 12x0,25 Li2YCH CE

The flexible CC-data cable Li2YCH-247 shielded is suitable as a control and signal cable in data, measurement and regulating technology. The halogen-free and flame retardant sheath ensures greatly improved protection for humans and materials in the event of fire. The overall tinned copper shield ensures reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire, PE core insulation, core colours acc. to DIN 47100, cores twisted in layers, foil wrapping, overall tinned copper shield. Outer sheath halogen-free polymer mixture, flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

Rated voltage:

≤ 0,14 mm²: 250 V
> 0,14 mm²: 300 V

Test voltage:

≤ 0,14 mm²: 800 V
> 0,14 mm²: 1200 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:

min. 5 GOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 7,5 × cable diameter

Approvals:

acc. to VDE 0281, 0812

Conductor cross-section (mm ²):	0,14	0,25	0,34	0,5	0,75	1,0	1,5
Conductor resistance (Ohm/km):	≤ 138	≤ 79	≤ 57	≤ 39	≤ 26	≤ 19,5	≤ 13,3
Max. load (Ampere):	2	4	6	9	12	15	18
Capacitance at 800 Hz core/core (approx.nF/km):	40	40	40	45	50	65	70

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
247 0001 002	2 × 0,14	12,6	3,9	21	247 0003 002	2 × 0,34	17,0	5,0	32
247 0001 003	3 × 0,14	14,1	4,1	23	247 0003 003	3 × 0,34	21,0	5,2	39
247 0001 004	4 × 0,14	15,9	4,3	27	247 0003 004	4 × 0,34	25,0	5,6	45
247 0001 005	5 × 0,14	19,5	4,7	32	247 0003 005	5 × 0,34	30,0	6,3	57
247 0001 006	6 × 0,14	22,0	5,2	36	247 0003 006	6 × 0,34	37,0	6,8	67
247 0001 007	7 × 0,14	24,0	5,2	41	247 0003 007	7 × 0,34	42,0	6,8	69
247 0001 008	8 × 0,14	26,0	5,9	48	247 0003 008	8 × 0,34	45,0	7,7	86
247 0001 010	10 × 0,14	29,0	6,5	54	247 0003 010	10 × 0,34	63,0	8,7	100
247 0001 012	12 × 0,14	32,0	6,7	60	247 0003 012	12 × 0,34	70,0	8,9	112
247 0001 014	14 × 0,14	35,0	6,9	66	247 0003 014	14 × 0,34	78,0	9,3	124
247 0001 016	16 × 0,14	49,0	7,3	73	247 0003 016	16 × 0,34	87,0	9,8	140
247 0001 018	18 × 0,14	54,0	7,6	80	247 0003 018	18 × 0,34	108,0	10,3	152
247 0001 021	21 × 0,14	60,0	8,7	100	247 0003 021	21 × 0,34	127,0	11,4	191
247 0001 024	24 × 0,14	74,0	9,1	107	247 0003 024	24 × 0,34	140,0	12,0	203
247 0001 025	25 × 0,14	78,0	9,3	109	247 0003 025	25 × 0,34	143,0	12,6	220
247 0001 027	27 × 0,14	85,0	9,3	114	247 0003 027	27 × 0,34	151,0	12,6	230
247 0001 030	30 × 0,14	98,0	9,5	121	247 0003 030	30 × 0,34	162,0	13,0	250
247 0001 032	32 × 0,14	108,0	9,9	130	247 0003 032	32 × 0,34	171,0	13,5	264
247 0001 036	36 × 0,14	117,0	10,2	141	247 0003 036	36 × 0,34	188,0	14,0	291
247 0001 040	40 × 0,14	126,0	11,1	168	247 0003 040	40 × 0,34	208,0	14,9	320
247 0001 044	44 × 0,14	138,0	11,5	179	247 0003 044	44 × 0,34	223,0	16,1	373
247 0001 050	50 × 0,14	150,0	11,9	194	247 0003 050	50 × 0,34	248,0	16,7	407
247 0001 052	52 × 0,14	155,0	11,9	198	247 0003 052	52 × 0,34	273,0	16,7	416
247 0001 061	61 × 0,14	176,0	13,0	235	247 0003 061	61 × 0,34	316,0	17,7	476
247 0002 002	2 × 0,25	15,0	4,2	24	247 0005 002	2 × 0,5	24,0	5,3	39
247 0002 003	3 × 0,25	18,0	4,4	30	247 0005 003	3 × 0,5	29,0	5,6	44
247 0002 004	4 × 0,25	22,0	4,7	33	247 0005 004	4 × 0,5	35,0	6,2	56
247 0002 005	5 × 0,25	25,0	5,3	42	247 0005 005	5 × 0,5	42,0	6,7	67
247 0002 006	6 × 0,25	30,0	5,7	49	247 0005 006	6 × 0,5	49,0	7,2	77
247 0002 007	7 × 0,25	32,0	5,7	50	247 0005 007	7 × 0,5	54,0	7,2	80
247 0002 008	8 × 0,25	35,0	6,6	65	247 0005 008	8 × 0,5	62,0	8,6	107
247 0002 010	10 × 0,25	42,0	7,5	70	247 0005 010	10 × 0,5	74,0	9,3	118
247 0002 012	12 × 0,25	50,0	7,7	77	247 0005 012	12 × 0,5	87,0	9,6	134
247 0002 014	14 × 0,25	64,0	8,0	86	247 0005 014	14 × 0,5	97,0	10,0	148
247 0002 016	16 × 0,25	71,0	8,4	97	247 0005 016	16 × 0,5	125,0	10,7	178
247 0002 018	18 × 0,25	80,0	8,8	113	247 0005 018	18 × 0,5	134,0	11,2	194
247 0002 021	21 × 0,25	105,0	9,5	130	247 0005 021	21 × 0,5	155,0	12,6	236
247 0002 024	24 × 0,25	115,0	10,0	140	247 0005 024	24 × 0,5	175,0	13,3	256
247 0002 025	25 × 0,25	117,0	10,2	145	247 0005 025	25 × 0,5	180,0	13,6	264
247 0002 027	27 × 0,25	120,0	10,2	151	247 0005 027	27 × 0,5	190,0	13,6	276
247 0002 030	30 × 0,25	132,0	10,7	176	247 0005 030	30 × 0,5	210,0	14,0	301
247 0002 032	32 × 0,25	138,0	11,1	185	247 0005 032	32 × 0,5	220,0	14,5	318
247 0002 036	36 × 0,25	152,0	11,5	205	247 0005 036	36 × 0,5	240,0	15,0	348
247 0002 040	40 × 0,25	164,0	12,6	235	247 0005 040	40 × 0,5	290,0	16,6	419
247 0002 044	44 × 0,25	180,0	13,6	254	247 0005 044	44 × 0,5	321,0	17,3	449
247 0002 050	50 × 0,25	222,0	13,5	273	247 0005 050	50 × 0,5	351,0	18,0	492
247 0002 052	52 × 0,25	234,0	13,5	279	247 0005 052	52 × 0,5	360,0	18,0	504
247 0002 061	61 × 0,25	287,0	14,4	318	247 0005 061	61 × 0,5	416,0	19,0	574



CC-data cable Li2YCH-247

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
247 0007 002	2 × 0,75	35,0	6,0	45
247 0007 003	3 × 0,75	40,0	6,4	60
247 0007 004	4 × 0,75	48,0	6,9	75
247 0007 005	5 × 0,75	58,0	7,5	86
247 0007 006	6 × 0,75	67,0	8,1	105
247 0007 007	7 × 0,75	74,0	8,1	110
247 0007 008	8 × 0,75	87,0	9,7	140
247 0007 010	10 × 0,75	120,0	10,7	165
247 0007 012	12 × 0,75	134,0	11,0	195
247 0007 014	14 × 0,75	155,0	11,5	210
247 0007 016	16 × 0,75	170,0	12,6	242
247 0010 002	2 × 1,0	36,0	6,3	54
247 0010 003	3 × 1,0	47,0	6,6	67
247 0010 004	4 × 1,0	58,0	7,1	81
247 0010 005	5 × 1,0	72,0	7,8	100
247 0010 006	6 × 1,0	82,0	8,8	123
247 0010 007	7 × 1,0	91,0	8,8	130
247 0015 002	2 × 1,5	48,0	6,9	67
247 0015 003	3 × 1,5	63,0	7,3	84
247 0015 004	4 × 1,5	81,0	7,7	102
247 0015 005	5 × 1,5	99,0	9,0	136
247 0015 006	6 × 1,5	115,0	9,7	159
247 0015 007	7 × 1,5	130,0	9,7	169





CC-data cable Li2YCH-(TP)-248

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 248 2x2x0,34 Li2YCH(TP) CE



The flexible paired CC-data cable Li2YCH-(TP)-248 shielded is suitable as a control and signal cable in data, measurement and regulating technology. The halogen-free and flame retardant sheath ensures greatly improved protection for humans and materials in the event of fire. Synchronized twisted core pair lengths cause minimum coupling values. The tinned copper shield ensures reliable transmission of data and impulses and protects against electrical interferences.

Construction

Fine strands of bare copper wire. PE core insulation, core colours acc. to DIN 47100, cores twisted in pairs, pairs twisted in layers, foil wrapping, overall tinned copper shield. Outer sheath halogen-free polymer mixture, flame retardant (acc. to VDE 0482, Part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

Rated voltage:

≤ 0,14 mm²: 250 V
> 0,14 mm²: 300 V

Test voltage:

≤ 0,14 mm²: 800 V
> 0,14 mm²: 1200V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5
0,34 mm²: 7-strands

Insulation resistance:

min. 5 GOhm × km

Temperature range:

fixed installation: -30°C to +80°C
flexible application: -5°C to +70°C

Bending radius:

fixed installation: 7,5 × cable diameter

Approvals:

acc. to VDE 0281, 0812

Conductor cross-section (mm ²):	0,14	0,25	0,34	0,5	0,75
Loop resistance (Ohm/km):	≤ 276	≤ 158	≤ 114	≤ 78	≤ 52
Max. load (Ampere):	2	4	6	9	12
Capacitance at 800 Hz core/core (approx.nF/km):	40	40	40	45	50



CC-data cable Li2YCH-(TP)-248

Halogen-free, core colour acc. to DIN 47100, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
248 0001 002	2 × 2 × 0,14	19,1	5,2	29
248 0001 003	3 × 2 × 0,14	23,4	5,7	35
248 0001 004	4 × 2 × 0,14	27,8	6,5	46
248 0001 005	5 × 2 × 0,14	34,9	7,0	51
248 0001 006	6 × 2 × 0,14	46,2	7,2	60
248 0001 008	8 × 2 × 0,14	53,4	7,8	70
248 0001 010	10 × 2 × 0,14	59,0	8,9	85
248 0001 012	12 × 2 × 0,14	66,0	9,7	96
248 0001 016	16 × 2 × 0,14	79,0	10,5	116
248 0001 024	24 × 2 × 0,14	114,0	12,8	172
248 0002 002	2 × 2 × 0,25	28,0	5,7	38
248 0002 003	3 × 2 × 0,25	39,0	6,4	49
248 0002 004	4 × 2 × 0,25	45,0	7,2	61
248 0002 005	5 × 2 × 0,25	55,0	7,7	69
248 0002 006	6 × 2 × 0,25	69,5	7,9	78
248 0002 008	8 × 2 × 0,25	77,0	9,0	95
248 0002 010	10 × 2 × 0,25	102,0	9,8	115
248 0002 012	12 × 2 × 0,25	120,0	10,9	139
248 0002 016	16 × 2 × 0,25	146,0	11,9	170
248 0003 002	2 × 2 × 0,34	31,5	6,8	60
248 0003 003	3 × 2 × 0,34	46,0	7,4	64
248 0003 004	4 × 2 × 0,34	61,0	8,8	85
248 0003 005	5 × 2 × 0,34	69,0	9,5	99
248 0003 006	6 × 2 × 0,34	78,0	9,7	110
248 0003 008	8 × 2 × 0,34	97,0	10,6	125
248 0003 012	12 × 2 × 0,34	148,0	13,4	195
248 0003 018	18 × 2 × 0,34	192,0	15,1	265
248 0005 002	2 × 2 × 0,5	48,0	7,2	58
248 0005 003	3 × 2 × 0,5	74,0	7,9	73
248 0005 004	4 × 2 × 0,5	82,0	9,4	97
248 0005 005	5 × 2 × 0,5	94,0	10,2	112
248 0005 006	6 × 2 × 0,5	110,0	10,4	128
248 0005 008	8 × 2 × 0,5	139,0	11,4	162
248 0005 010	10 × 2 × 0,5	178,0	13,2	198
248 0005 012	12 × 2 × 0,5	198,0	14,4	233
248 0005 018	18 × 2 × 0,5	284,0	16,9	346
248 0007 002	2 × 2 × 0,75	58,0	8,5	85
248 0007 003	3 × 2 × 0,75	84,0	9,4	98
248 0007 004	4 × 2 × 0,75	108,0	10,9	130
248 0007 005	5 × 2 × 0,75	128,0	11,7	160
248 0007 006	6 × 2 × 0,75	146,0	12,5	195
248 0007 008	8 × 2 × 0,75	180,0	13,7	225
248 0007 012	12 × 2 × 0,75	261,0	17,0	335
248 0007 018	18 × 2 × 0,75	390,0	19,1	500

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Instrumentation and signal cable





CC-data cable Li2YCY-(TP)-245

Low capacity cable, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 245 2x2x0,34 Li2YCY(TP) CE



The CC-data cable Li2YCY-(TP)-245 shielded is suitable as a link-up cable for rapid data systems up to 10 megabits per second, e.g., for interfaces RS 422 and RS 485. It is intended to be used in cutting and clamping technology as well as Maxi-Termi-Point® link-up technology.

Construction

Bare 7-strands of copper wire, PE core insulation, core colours acc. to DIN 47100, cores paired and twisted in layers, foil wrapping, tinned drain wire, overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

*TermiPoint®: registered trademark of AMP enterprise

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
245 0002 002	2 × 2 × 0,22	23,0	6,3	47
245 0002 003	3 × 2 × 0,22	28,5	6,6	66
245 0002 004	4 × 2 × 0,22	34,5	7,2	81
245 0002 008	8 × 2 × 0,22	58,0	8,9	124
245 0002 010	10 × 2 × 0,22	69,5	10,4	165
245 0003 002	2 × 2 × 0,34	32,0	7,5	66
245 0003 003	3 × 2 × 0,34	41,0	7,9	78
245 0003 004	4 × 2 × 0,34	50,0	8,5	90
245 0003 008	8 × 2 × 0,34	82,0	11,0	160
245 0003 010	10 × 2 × 0,34	102,0	12,6	193
245 0005 002	2 × 2 × 0,5	43,0	8,3	73
245 0005 003	3 × 2 × 0,5	54,5	8,7	112
245 0005 004	4 × 2 × 0,5	66,5	9,5	130
245 0005 008	8 × 2 × 0,5	120,0	12,3	225
245 0005 010	10 × 2 × 0,5	151,0	14,6	260

Technical data

Rated voltage:
250 V

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
7 strand copper wire
acc. to VDE 0295, class 2

Capacitance at 800 Hz:
approx. 60 nF/km

Attenuation:
at 100 kHz
0,22 mm²: 9,0 dB/km
0,34 mm²: 6,5 dB/km
0,50 mm²: 6,0 dB/km

at 1 MHz
0,22 mm²: 25,0 dB/km
0,34 mm²: 20,0 dB/km
0,50 mm²: 18,0 dB/km

Impedance:
approx. 100 Ohm

Insulation resistance:
min. 5 GOhm × km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 5 × cable diameter

Approvals:
acc. to VDE 0812





CC-data cable Li2YCYv-(TP)-246

Low capacity cable, shielded

Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 246 2x2x0,34 Li2YCYv(TP) CE



The CC-data cable Li2YCYv-(TP)-246 shielded is suitable as a link-up cable for rapid data systems up to 10 megabits per second, e.g., for interfaces RS 422 or RS 485. These cables are ideally suited for outdoor as well as for embedding underground. It is intended to be used in cutting and clamping technology as well as Maxi-Termi-Point® connection technology.

Technical data

Rated voltage:
250 V

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
7-strand copper wires
acc. to VDE 0295, class 2

Capacitance at 800 Hz:
approx. 60 nF/km

Attenuation:
at 100 kHz
0,22 mm²: 9,0 dB/km
0,34 mm²: 6,5 dB/km
0,50 mm²: 6,0 dB/km

at 1 MHz
0,22 mm²: 25,0 dB/km
0,34 mm²: 20,0 dB/km
0,50 mm²: 18,0 dB/km

Impedance:
approx. 100 Ohm

Insulation resistance:
min. 5 GOhm × km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 5 × cable diameter

Approvals:
acc. to VDE 0812

Construction

Bare 7-strands of copper wire, PE core insulation, core colours acc. to DIN 47100. Cores paired and twisted in layers, foil wrapping. Tinned drain wire, overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black (RAL 9005).

*Termi-Point®: registered trademark of AMP enterprise

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
246 0002 002	2 × 2 × 0,22	23,0	7,9	59
246 0002 003	3 × 2 × 0,22	28,5	8,3	78
246 0002 004	4 × 2 × 0,22	34,5	8,8	97
246 0002 008	8 × 2 × 0,22	58,0	10,6	143
246 0002 010	10 × 2 × 0,22	69,5	12,0	179
246 0003 002	2 × 2 × 0,34	32,0	9,2	82
246 0003 003	3 × 2 × 0,34	41,0	9,5	94
246 0003 004	4 × 2 × 0,34	50,0	10,2	115
246 0003 008	8 × 2 × 0,34	82,0	12,6	180
246 0003 010	10 × 2 × 0,34	102,0	14,3	217
246 0005 002	2 × 2 × 0,5	43,0	9,9	93
246 0005 003	3 × 2 × 0,5	54,5	10,4	127
246 0005 004	4 × 2 × 0,5	66,5	11,1	150
246 0005 008	8 × 2 × 0,5	120,0	14,0	250
246 0005 010	10 × 2 × 0,5	151,0	15,8	293



CC-data cable LVCC-271

Data transmission cable with approval, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE



The CC-data cable LVCC-271 is suitable as a data transmission cable in many areas of electronic data processing. The overall copper shield protects from electrical interference and outside influences. CC-computer cables LVCC are specially suitable for connectors acc. to DIN 41612 and SUB-D (MIL C 24308) in soldering, crimping, cutting and clamping technology.

Construction

Fine strands of bare copper wire, PVC core insulation, core colours acc. to DIN 47100, cores paired and twisted in layers, foil wrapping, tinned drain wire, overall tinned copper shield, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Technical data

	AWG 28	AWG 26	AWG 24
UL-Style:	2560	2560	2464
Rated voltage: acc. to VDE:	250 V	250 V	300 V
acc. to UL:	30 V	30 V	300 V
Test voltage: core/core	1.200 V	1.200 V	1.500 V
Conductor stranding: amount of wires × wire Ø (mm)	7 × 0,13	18 × 0,10	7 × 0,20
Conductor resistance: (Ohm/km)	243	138	87
Insulation resistance: min. (Ohm × km)	100	100	100
Operating capacitance: core/core approx. (pF/m)	100	120	100
core/shield approx. (pF/m)	160	160	160
Temperature range:	-5°C to +60°C	-5°C to +60°C	-5°C to +80°C
Bending radius:	15 × Ø	15 × Ø	15 × Ø

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Part-No.	No. of cores + AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
271 0028 005	5 × 2 × AWG 28	22,0	7,1	48
271 0028 008	8 × 2 × AWG 28	29,0	7,8	86
271 0028 013	13 × 2 × AWG 28	42,0	9,3	116
271 0028 016	16 × 2 × AWG 28	48,0	10,8	130
271 0028 019	19 × 2 × AWG 28	54,0	11,2	145
271 0028 025	25 × 2 × AWG 28	68,0	12,8	198
271 0028 032	32 × 2 × AWG 28	90,0	13,8	240
271 0028 048	48 × 2 × AWG 28	122,0	15,4	290
271 0026 002	2 × 2 × AWG 26	18,0	5,1	35
271 0026 003	3 × 2 × AWG 26	23,0	5,7	42
271 0026 004	4 × 2 × AWG 26	24,0	6,3	50
271 0026 005	5 × 2 × AWG 26	28,0	6,5	55
271 0026 006	6 × 2 × AWG 26	38,0	7,3	70
271 0026 008	8 × 2 × AWG 26	48,0	8,1	92
271 0026 010	10 × 2 × AWG 26	60,0	8,6	105
271 0026 012	12 × 2 × AWG 26	73,0	9,8	123
271 0026 016	16 × 2 × AWG 26	98,0	10,6	162
271 0026 020	20 × 2 × AWG 26	115,0	11,6	185
271 0026 025	25 × 2 × AWG 26	135,0	13,4	220
271 0024 002	2 × 2 × AWG 24	17,0	5,0	30
271 0024 003	3 × 2 × AWG 24	24,0	6,0	50
271 0024 004	4 × 2 × AWG 24	46,0	6,8	65
271 0024 005	5 × 2 × AWG 24	63,0	7,5	88
271 0024 007	7 × 2 × AWG 24	80,0	8,0	103
271 0024 010	10 × 2 × AWG 24	98,0	9,6	140
271 0024 012	12 × 2 × AWG 24	110,0	9,8	155
271 0024 016	16 × 2 × AWG 24	142,0	11,0	195
271 0024 020	20 × 2 × AWG 24	168,0	12,5	235
271 0024 030	30 × 2 × AWG 24	258,0	16,0	325



CC-data cable PiMF Li2YCY-270

Low capacity, high crosstalk attenuation, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE



ConCab Kabel Mainhardt 270 10x2x0,34 PiMF Li2YCY CE

The CC-data cable PiMF Li2YCY-270 shielded is used to transfer data and signals in EDP and control equipment. Polyethylene core pairs ensure the transfer of large quantities of data. The metal foil shielding of the pairs facilitates a considerable high crosstalk attenuation. The overall tinned copper shield ensures a reliable transmission of data or respectively impulses at the same time protecting against electrical interference.

It is intended to be used in cutting and clamping technology as well of Maxi-Termi-Point® link-up technology.

Construction

Bare 7-strands of copper wire, PE core insulation, core colours acc. to DIN 47100, cores twisted in pairs, foil wrapping, tinned drain wire, aluminium foil, shielded core pairs twisted together, overall tinned copper shield, foil wrapping. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

*TermiPoint®: registered trademark of AMP enterprise

Technical data

Rated voltage:
250 V

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
7-strand copper wire
acc. to VDE 0295, class 2

Insulation resistance:
min. 5 GOhm × km

Capacitance at 800 Hz:
approx. 70 nF/km

Impedance at 1 MHz:
approx. 85 Ohm

Crosstalk attenuation (≤ 1 MHz):
≥ 75 dB

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 10 x cable diameter

Approvals:
acc. to VDE 0812

Conductor cross-section (mm²):	0,22	0,34
Loop resistance (Ohm/km):	≤ 186	≤ 114
Attenuation at 100 kHz (dB/km):	11,0	9,0
at 1 MHz (dB/km):	45,5	38,5

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
270 0002 002	2 × 2 × 0,22	33,0	7,0	39
270 0002 003	3 × 2 × 0,22	37,0	7,5	57
270 0002 004	4 × 2 × 0,22	49,0	8,1	84
270 0002 008	8 × 2 × 0,22	85,0	10,0	135
270 0002 010	10 × 2 × 0,22	100,0	11,8	167
270 0003 002	2 × 2 × 0,34	44,0	8,1	71
270 0003 003	3 × 2 × 0,34	55,0	8,7	87
270 0003 004	4 × 2 × 0,34	67,0	9,7	102
270 0003 008	8 × 2 × 0,34	114,0	12,1	190
270 0003 010	10 × 2 × 0,34	150,0	14,8	230



CC-data cable PiMF Li2YCY-270

Low capacity, high crosstalk attenuation, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE



ConCab Kabel Mainhardt 270 10x2x0,5 PiMF Li2YCY CE

The CC-data cable PiMF Li2YCY-270 shielded is used to transfer data and signals in EDP and control equipment. Polyethylene insulated core pairs ensure the transfer of large quantities of data. The metal foil shielding of the pairs facilitates a considerable high crosstalk attenuation. The overall tinned copper shield ensure a reliable transmission of data or respectively impulses at the same time protecting against electrical interferences.

Construction

Bare multistrands of copper wire, PE core insulation, core colours acc. to DIN 47100, cores twisted in pairs, foil wrapping, tinned drain wire, aluminium foil, shielded pairs twisted together, (pairs numbered) foil wrapping, tinned copper shield, foil wrapping, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7032).

Technical data

Rated voltage:
250 V

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
multistrand copper wires
acc. to VDE 0295, class 2
up to 0,5mm²: 7-strands
from 0,75mm²: 19-strands

Insulation resistance:
min. 5 GOhm × km

Capacitance at 800 Hz:
0,5 mm²: approx. 80 nF/km
1,0 mm²: approx. 95 nF/km

Impedance at 1 MHz:
0,5 mm²: approx. 80 Ohm
1,0 mm²: approx. 65 Ohm

Near-end crosstalk attenuation (≤ 1MHz):
≥ 75 dB

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 10 × cable diameter

Approvals:
acc. to VDE 0812

Conductor cross-section (mm²):	0,5	0,75	1,0
Loop resistance (Ohm/km):	≤ 78	≤ 52	≤ 40
Attenuation at 100 kHz (dB/km):	7,5	6,0	5,0
at 1 MHz (dB/km):	36,0	27,5	21,0



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
270 0005 002	2 × 2 × 0,5	78,0	9,5	110
270 0005 004	4 × 2 × 0,5	108,0	12,0	172
270 0005 006	6 × 2 × 0,5	150,0	14,3	229
270 0005 008	8 × 2 × 0,5	187,0	14,9	262
270 0005 010	10 × 2 × 0,5	236,0	17,5	338
270 0005 016	16 × 2 × 0,5	338,0	21,3	448
270 0005 020	20 × 2 × 0,5	396,0	22,9	595
270 0005 030	30 × 2 × 0,5	599,0	27,9	842
270 0005 040	40 × 2 × 0,5	749,0	38,0	1099
270 0005 050	50 × 2 × 0,5	959,0	42,5	1350
270 0007 004	4 × 2 × 0,75	141,0	14,0	204
270 0007 006	6 × 2 × 0,75	198,0	16,8	299
270 0007 008	8 × 2 × 0,75	246,0	17,2	352
270 0007 010	10 × 2 × 0,75	305,0	19,8	428
270 0007 016	16 × 2 × 0,75	446,0	24,0	630
270 0007 020	20 × 2 × 0,75	530,0	25,6	742
270 0007 030	30 × 2 × 0,75	765,0	30,9	1035
270 0010 004	4 × 2 × 1,0	186,0	16,2	298
270 0010 006	6 × 2 × 1,0	260,0	18,7	386
270 0010 008	8 × 2 × 1,0	322,0	19,2	476
270 0010 010	10 × 2 × 1,0	382,0	22,2	563
270 0010 016	16 × 2 × 1,0	578,0	26,9	832
270 0010 020	20 × 2 × 1,0	710,0	29,4	1010
270 0010 030	30 × 2 × 1,0	1050,0	35,4	1405

CC-installation cable JE-Y(St)Y...Bd-430

For industrial electronics, core colour acc. to VDE 0815, shielded

Conforms to the EU low voltage guideline 73/23/EEC CE



ConCab Kabel Mainhardt 430 4x2x0,8 JE-Y(St)Y CE

The CC-installation cable grey or blue JE-Y(St)Y...Bd-430 shielded is suitable as a link-up cable in measurement, regulating, signal and data technology for fixed installation. It is suitable for cutting and clamping technology.

Construction

Bare solid copper wire, PVC core insulation, core colours acc. to VDE 0815, 2 cores in a pair and 4 pairs twisted in a bundle, (with 2 x 2 x 0,8 as star quad), tinned drain wire and static shield of aluminium foil. PVC outer sheath, flame retardant and self-extinguishing, (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032) or blue (RAL 5015).

Technical data

Operating peak voltage:
225 V

Test voltage:
core/core: 500 V
core/shield: 2000 V

Conductor stranding:
solid copper wire
acc. to VDE 0295, class 1

Insulation resistance:
min. 100 MOhm × km

Loop resistance:
≤ 78 Ohm/km

Capacitance at 800 Hz:
approx. 100 nF/km

Coupling at 1kHz:
max. 200 pF/100m

Attenuation at 800 Hz:
approx. 1 dB/km

Inductance:
≤ 0,68 mH/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 5 × cable diameter

Approvals:
acc. to VDE 0815

Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
grey				
430 08 001 05	1 × 2 × 0,8	14,0	5,0	40
430 08 002 05	2 × 2 × 0,8	25,0	6,0	60
430 08 004 05	4 × 2 × 0,8	45,0	8,0	96
430 08 008 05	8 × 2 × 0,8	85,0	11,0	158
430 08 012 05	12 × 2 × 0,8	126,0	12,5	215
430 08 016 05	16 × 2 × 0,8	166,0	14,0	280
430 08 020 05	20 × 2 × 0,8	206,0	15,0	340
430 08 032 05	32 × 2 × 0,8	327,0	19,0	525
430 08 040 05	40 × 2 × 0,8	407,0	21,5	635
blue				
430 08 001 01	1 × 2 × 0,8	14,0	5,0	40
430 08 002 01	2 × 2 × 0,8	25,0	6,0	60
430 08 004 01	4 × 2 × 0,8	45,0	8,0	96
430 08 008 01	8 × 2 × 0,8	85,0	11,0	158
430 08 012 01	12 × 2 × 0,8	126,0	12,5	215
430 08 016 01	16 × 2 × 0,8	166,0	14,0	280
430 08 020 01	20 × 2 × 0,8	206,0	15,0	340
430 08 032 01	32 × 2 × 0,8	327,0	19,5	525
430 08 040 01	40 × 2 × 0,8	407,0	21,5	635

CC-data cable JE-LiYCY... Bd-260



Core colour acc. to VDE 0815, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 260 8x2x0,5 JE-LiYCY CE

The CC-data cable JE-LiYCY... Bd-260 shielded is ideal as a link-up cable in electronic, measurement, control, regulating and signal technology. In addition it is used as a data cable or respectively as a link-up cable for telephone installations. This cable is well suited for Maxi-Termi-Point® technology.

Construction

7-strands of bare copper wire, PVC core insulation, core colours acc. to VDE 0815, 2 cores in a pair and 4 pairs twisted in a bundle (with $2 \times 2 \times 0,5$ as star quad), bundles twisted in layers, foil wrapping, tinned drain wire, overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

*TermiPoint®: registered trademark of AMP enterprise

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
260 0005 002	$2 \times 2 \times 0,5$	52,0	7,4	98
260 0005 004	$4 \times 2 \times 0,5$	89,0	9,9	150
260 0005 008	$8 \times 2 \times 0,5$	144,0	13,1	264
260 0005 012	$12 \times 2 \times 0,5$	195,0	15,3	353
260 0005 016	$16 \times 2 \times 0,5$	249,0	16,9	440
260 0005 020	$20 \times 2 \times 0,5$	298,0	18,7	510
260 0005 024	$24 \times 2 \times 0,5$	349,0	20,4	610
260 0005 032	$32 \times 2 \times 0,5$	443,0	22,8	740
260 0005 040	$40 \times 2 \times 0,5$	534,0	24,5	848

Technical data

Operating peak voltage:
225 V

Test voltage:
core/core: 500 V
core/shield: 2000 V

Conductor stranding:
7-strands of copper wire
acc. to VDE 0295, class 2

Loop resistance:
 $\leq 78 \text{ Ohm/km}$

Capacitance at 800 Hz:
max. 100 nF/km

Attenuation at 800 Hz:
approx. 1,1 dB/km

Coupling at 1kHz:
max. 200 pF/100m

Inductance:
approx. 0,68 mH/km

Insulation resistance:
min. 100 MOhm \times km

Temperature range:
fixed installation: -30°C to $+80^\circ\text{C}$

Bending radius:
fixed installation: $5 \times$ cable diameter

Approvals:
acc. to VDE 0815

CC-data cable blue JE-LiYCY... Bd-261



Core colour acc. to VDE 0815, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 261 8x2x0,5 JE-LiYCY CE



Technical data

Operating peak voltage:
225 V

Test voltage:
core/core: 500 V
core/shield: 2000 V

Conductor stranding:
7-strands of copper wire
acc. to VDE 0295, class 2

Loop resistance:
≤ 78 Ohm/km

Capacitance at 800 Hz:
max. 100 nF/km

Attenuation at 800 Hz:
approx. 1,1 dB/km

Coupling at 1kHz:
max. 200 pF/100m

Inductance:
approx. 0,68 mH/km

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 5 × cable diameter

Approvals:
acc. to VDE 0815

The CC-data cable JE-LiYCY...Bd-261 shielded is suitable as a link-up cable in electronic, measurement, control, regulating and signal technology. Furthermore it is also used as a data cable or respectively as a connection cable for telephone installations. This cable is well suited for Maxi-Termi-Point® technology.

Construction

7-strands of bare copper wire.
PVC core insulation, core colours acc. to VDE 0815, 2 cores in a pair and 4 pairs twisted in a bundle (2 × 2 × 0,5 as star quad), bundles twisted in layers, foil wrapping, tinned drain wire, overall tinned copper shield. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour blue (RAL 5015).

*TermiPoint®: registered trademark of AMP enterprise

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
261 0005 002	2 × 2 × 0,5	52,0	7,4	98
261 0005 004	4 × 2 × 0,5	89,0	9,9	150
261 0005 008	8 × 2 × 0,5	144,0	13,1	264
261 0005 012	12 × 2 × 0,5	195,0	15,3	353
261 0005 016	16 × 2 × 0,5	249,0	16,9	440
261 0005 020	20 × 2 × 0,5	298,0	18,7	510
261 0005 024	24 × 2 × 0,5	349,0	20,4	610
261 0005 032	32 × 2 × 0,5	443,0	22,8	740
261 0005 040	40 × 2 × 0,5	534,0	24,5	848

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CC-computer cable J-2Y(St)Y...St-III Bd-421



Low capacity, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE



The CC-computer cable J-2Y(St)Y... St-III Bd-421 shielded is suitable as a link-up cable for data transmission of analogue and digital signals up to 16 Mbit/s, e.g., rapid data network for the connection of computers, printers and monitors. Optimized twist of the bundles lead to a greater high crosstalk attenuation. Furthermore the static shield protects the bundles against electronic interferences.

Construction

Solid bare copper wire. PE core insulation, core colours acc. to VDE 0815 (refer to appendix), 4 cores twisted to star quad, star quad to bundles, bundles twisted in layers, drain wire aluminum foil. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
421 06002	2 × 2 × 0,6	13,0	5,3	40
421 06004	4 × 2 × 0,6	24,0	7,2	60
421 06006	6 × 2 × 0,6	35,0	7,7	80
421 06008	8 × 2 × 0,6	46,0	8,5	98
421 06010	10 × 2 × 0,6	58,0	9,4	110
421 06020	20 × 2 × 0,6	116,0	12,8	195
421 06030	30 × 2 × 0,6	172,0	14,3	280
421 06040	40 × 2 × 0,6	229,0	15,8	370
421 06050	50 × 2 × 0,6	286,0	16,9	415
421 06060	60 × 2 × 0,6	342,0	18,3	500
421 06080	80 × 2 × 0,6	455,0	22,8	640
421 06100	100 × 2 × 0,6	568,0	27,6	800

Technical data

Rated voltage:
150 V

Test voltage:
core/core: 800 V
core/shield: 2000 V

Conductor stranding:
solid copper wire,
Ø 0,6 mm ≈ 0,28mm²

Insulation resistance:
min. 5 GOhm × km

Loop resistance:
≤ 130 Ohm/km

Capacitance at 800 Hz:
approx. 50 nF/km

Coupling at 800 Hz:
K1 approx. 420 pF/300 m
K9...K12 approx. 110 pF/300 m

Impedance 4 MHz to 16 MHz:
85 Ohm to 115 Ohm

Attenuation:
at 1 MHz: approx. 28 dB/km
at 16 MHz: approx. 78 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0815, 0816

ConCab kabel connects the world

CC-computer cable RE-2Y(St)Y-(TP)-436

Low capacity, shielded

Conforms to the EU low voltage guideline 73/23/EEC CE



The CC-computer cable RE-2Y(St)Y-(TP)-436 shielded is suitable as a connection cable for computer technology and process control. Polyethylene insulated core pairs ensure reliable rapid transmission of data. The static shield protects the pairs from any interference arising from surrounding electromagnetic fields. It is suitable to be used in intrinsically safe circuits.

Construction

Multistrand bare copper wire. PE core insulation, black and white coloured cores with numbering, pairs twisted in layers, tinned drain wire, aluminium foil, PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 59265-2-1 and IEC 60332-1). Colour blue (RAL 5015).

Technical data

Operating peak voltage:
300 V
not for power application

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
multistrand copper wire
acc. to VDE 0295, class 2

Insulation resistance:
min. 5 GOhm × km

Capacitance at 800 Hz:
0,50 mm²: approx. 60 nF/km to 80 nF/km
1,30 mm²: approx. 70 nF/km to 105 nF/km

Crosstalk attenuation at 60 kHz:
≥ 0,85 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0816

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
436 05201 01	1 × 2 × 0,5	15,0	7,4	61
436 05202 01	2 × 2 × 0,5	30,0	10,0	115
436 05204 01	4 × 2 × 0,5	50,0	11,2	145
436 05208 01	8 × 2 × 0,5	90,0	13,6	215
436 05210 01	10 × 2 × 0,5	110,0	14,7	235
436 05212 01	12 × 2 × 0,5	130,0	15,7	280
436 05216 01	16 × 2 × 0,5	170,0	17,4	350
436 05220 01	20 × 2 × 0,5	210,0	18,6	395
436 05224 01	24 × 2 × 0,5	250,0	20,2	470
436 05236 01	36 × 2 × 0,5	370,0	24,0	656
436 05248 01	48 × 2 × 0,5	490,0	27,4	855
436 07202 01	2 × 2 × 0,75	35,0	10,6	130
436 07204 01	4 × 2 × 0,75	65,0	11,8	170
436 07208 01	8 × 2 × 0,75	125,0	14,5	265
436 07210 01	10 × 2 × 0,75	154,0	16,2	310
436 07212 01	12 × 2 × 0,75	185,0	16,9	355
436 07216 01	16 × 2 × 0,75	245,0	18,9	440
436 07220 01	20 × 2 × 0,75	298,0	20,7	525
436 07224 01	24 × 2 × 0,75	365,0	22,2	610
436 13201 01	1 × 2 × 1,3	31,0	8,4	92
436 13202 01	2 × 2 × 1,3	62,0	11,7	161
436 13204 01	4 × 2 × 1,3	114,0	13,4	233
436 13206 01	6 × 2 × 1,3	168,0	16,0	312
436 13208 01	8 × 2 × 1,3	218,0	17,1	375
436 13212 01	12 × 2 × 1,3	322,0	19,3	510
436 13216 01	16 × 2 × 1,3	426,0	21,9	650
436 13224 01	24 × 2 × 1,3	684,0	26,4	950
436 13301 01	1 × 3 × 1,3	44,0	9,5	110
436 13306 01	6 × 3 × 1,3	268,0	17,6	425



CC-computer cable RE-2Y(St)Y-(TP)-437

Low capacity, shielded

Conforms to the EU low voltage guideline 73/23/EEC CE



The CC-computer cable RE-2Y(St)Y-(TP)-437 shielded is suitable as a connection cable for computer technology and process control. Polyethylene core pairs ensure reliable rapid transmission of data. The static shield protects the pairs against any electromagnetic interferences. It can be used in- and outdoors.

Construction

Multistrand bare copper wire.
PE core insulation, black and white coloured cores with numbering, pairs twisted in layers, tinned drain wire, aluminium foil. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 59265-2-1 and IEC 60332-1).
Colour black (RAL 9005).

Technical data

Operating peak voltage:
300 V
not for power application

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
multistrand copper wire
acc. to VDE 0295, class 2

Insulation resistance:
min. 5 GOhm × km

Capacitance at 800 Hz:
0,50 mm²: approx. 60 nF/km to 80 nF/km
1,30 mm²: approx. 70 nF/km to 105 nF/km

Crosstalk attenuation at 60 kHz:
≥ 0,85 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0816

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
437 05201 00	1 × 2 × 0,5	15,0	7,4	61
437 05202 00	2 × 2 × 0,5	30,0	10,0	115
437 05204 00	4 × 2 × 0,5	50,0	11,2	145
437 05208 00	8 × 2 × 0,5	90,0	13,6	215
437 05210 00	10 × 2 × 0,5	110,0	14,7	245
437 05212 00	12 × 2 × 0,5	130,0	15,7	280
437 05216 00	16 × 2 × 0,5	170,0	17,4	350
437 05220 00	20 × 2 × 0,5	210,0	18,6	395
437 05224 00	24 × 2 × 0,5	250,0	20,2	470
437 05236 00	36 × 2 × 0,5	370,0	24,0	656
437 05248 00	48 × 2 × 0,5	490,0	27,4	855
437 07202 00	2 × 2 × 0,75	35,0	10,6	130
437 07204 00	4 × 2 × 0,75	65,0	11,8	170
437 07208 00	8 × 2 × 0,75	125,0	14,5	265
437 07210 00	10 × 2 × 0,75	154,0	16,2	310
437 07212 00	12 × 2 × 0,75	185,0	16,9	355
437 07216 00	16 × 2 × 0,75	245,0	18,9	440
437 07220 00	20 × 2 × 0,75	298,0	20,7	525
437 07224 00	24 × 2 × 0,75	365,0	22,2	610
437 13201 00	1 × 2 × 1,3	31,0	8,4	112
437 13202 00	2 × 2 × 1,3	62,0	11,7	161
437 13204 00	4 × 2 × 1,3	114,0	13,4	233
437 13206 00	6 × 2 × 1,3	168,0	16,0	312
437 13208 00	8 × 2 × 1,3	218,0	17,1	375
437 13212 00	12 × 2 × 1,3	322,0	19,3	510
437 13216 00	16 × 2 × 1,3	426,0	21,9	650
437 13224 00	24 × 2 × 1,3	684,0	26,4	950
437 13301 00	1 × 3 × 1,3	44,0	9,5	110
437 13306 00	6 × 3 × 1,3	268,0	17,6	425



CC-computer cable PiMF RE-2Y(St)Y-(TP)-431

Low capacity, high crosstalk attenuation, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 431 20x2x0,5 PiMF RE-2Y(St)Y(TP) CE

Technical data

Operating peak voltage:
300 V
not for power application

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
multistrand copper wire
acc. to VDE 0295, class 2

Insulation resistance:
min. 5 GOhm × km

Capacitance at 800 Hz:
0,5 mm²: approx. 70 nF/km to 80 nF/km
1,3 mm²: approx. 95 nF/km to 105 nF/km

Impedance at 1 MHz:
0,5 mm²: approx. 80 Ohm
1,3 mm²: approx. 65 Ohm

Crosstalk attenuation at 60 kHz:
≥ 1 dB/km

Inductance:
≤ 0,65 mH/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0816

The CC-computer cable PiMF RE-2Y(St)Y-(TP)-431 shielded is suitable as a connection cable for computer technology and process control. Polyethylene core pairs ensure reliable rapid transmission of data. The static shield protects the pairs against any electromagnetic interferences. The metal foil shielded pairs facilitate a considerable high crosstalk attenuation. The cables with a black sheath are suitable for outdoors and direct burial. The type with a blue outer sheath is intended for use in intrinsically safe circuits.

Construction

Multistrand bare copper wires. PE core insulation, black and white coloured cores with numbering, cores twisted to pairs, tinned drain wire, aluminium foil. Shielded pairs twisted in layers, tinned drain wire, aluminium foil. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black (RAL 9005) or colour blue (RAL 5015).

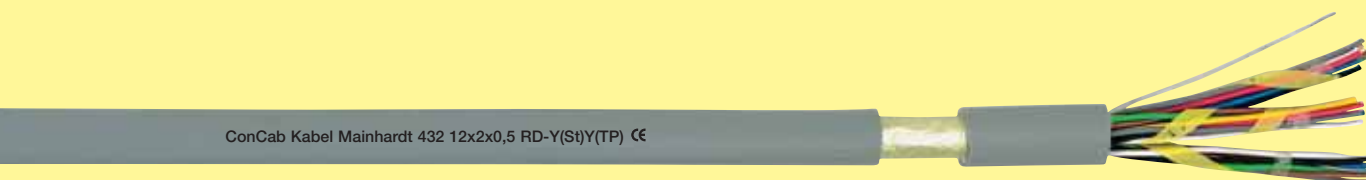
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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
black				
431 05002 00	2 × 2 × 0,5	35,0	10,8	130
431 05004 00	4 × 2 × 0,5	60,0	12,5	180
431 05006 00	6 × 2 × 0,5	82,0	13,8	220
431 05008 00	8 × 2 × 0,5	121,0	15,0	270
431 05010 00	10 × 2 × 0,5	136,0	16,5	290
431 05012 00	12 × 2 × 0,5	161,0	17,6	360
431 05016 00	16 × 2 × 0,5	212,0	19,7	450
431 05020 00	20 × 2 × 0,5	262,0	21,3	540
431 05024 00	24 × 2 × 0,5	313,0	23,3	670
431 05036 00	36 × 2 × 0,5	465,0	27,0	850
431 05048 00	48 × 2 × 0,5	616,0	32,2	1109
431 13002 00	2 × 2 × 1,3	68,0	12,7	180
431 13004 00	4 × 2 × 1,3	124,0	14,9	260
431 13006 00	6 × 2 × 1,3	178,0	16,9	355
431 13008 00	8 × 2 × 1,3	239,0	18,6	440
431 13012 00	12 × 2 × 1,3	353,0	21,4	600
431 13016 00	16 × 2 × 1,3	468,0	24,7	790
431 13024 00	24 × 2 × 1,3	697,0	29,3	1105
blue				
431 05002 01	2 × 2 × 0,5	35,0	10,8	130
431 05004 01	4 × 2 × 0,5	60,0	12,5	180
431 05006 01	6 × 2 × 0,5	82,0	13,8	220
431 05008 01	8 × 2 × 0,5	121,0	15,0	270
431 05010 01	10 × 2 × 0,5	136,0	16,5	290
431 05012 01	12 × 2 × 0,5	161,0	17,6	360
431 05016 01	16 × 2 × 0,5	212,0	19,7	450
431 05020 01	20 × 2 × 0,5	262,0	21,3	540
431 05024 01	24 × 2 × 0,5	313,0	23,3	640
431 05036 01	36 × 2 × 0,5	465,0	27,0	850
431 05048 01	48 × 2 × 0,5	616,0	32,2	1109
431 13002 01	2 × 2 × 1,3	68,0	12,7	180
431 13004 01	4 × 2 × 1,3	124,0	14,9	260
431 13006 01	6 × 2 × 1,3	178,0	16,9	355
431 13008 01	8 × 2 × 1,3	239,0	18,4	440
431 13012 01	12 × 2 × 1,3	353,0	21,4	600
431 13016 01	16 × 2 × 1,3	468,0	24,7	790
431 13024 01	24 × 2 × 1,3	697,0	29,3	1105

CC-process control cable RD-Y(St)Y-(TP)-432



For Maxi-Termi-Point[®], grey or blue, shielded
Conforms to the EU low voltage guideline 73/23/EEC CE



Technical data

Operating peak voltage:
300 V
not for power application

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
7 strand copper wire
acc. to VDE 0295, class 2

Insulation resistance:
min. 100 MOhm × km

Loop resistance:
≤ 72 Ohm/km

Capacitance at 800 Hz:
approx. 100 nF/km

Impedance:
at 1 kHz: approx. 370 Ohm
at 10 kHz: approx. 130 Ohm

Crosstalk attenuation at 10 kHz:
≥ 60 dB/500 m

Inductance:
≤ 0,73 mH/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0815, 0816

The CC-process control cable RD-Y(St)Y-(TP)-432 shielded is used as a data cable for data transmission of control centres. The static shield ensures a reliable transmission of data and analogue signals and protects against electrical interferences and disturbances. These cables are intended for static wiring in closed interiors. They are well suited for Maxi-Termi-Point[®] connection technology.

Construction

7-strands of bare copper wire, PVC core insulation, core colours acc. to VDE 0815, cores twisted in pairs with very short lay lengths, 4 pairs twisted in a bundle, bundles identified with numbers. Bundles twisted in layers, foil wrapping, tinned drain wire, aluminium foil. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7001), or blue (RAL 5015).

*TermiPoint[®]: registered trademark of AMP enterprise

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
grey				
432 05002 05	2 × 2 × 0,5	25,0	6,7	65
432 05004 05	4 × 2 × 0,5	45,0	9,2	110
432 05008 05	8 × 2 × 0,5	85,0	11,8	181
432 05012 05	12 × 2 × 0,5	125,0	13,7	253
432 05016 05	16 × 2 × 0,5	165,0	15,8	307
432 05024 05	24 × 2 × 0,5	245,0	19,3	441
432 05032 05	32 × 2 × 0,5	325,0	21,4	556
432 05048 05	48 × 2 × 0,5	485,0	25,8	813
432 05096 05	96 × 2 × 0,5	965,0	34,4	1571
blue				
432 05002 01	2 × 2 × 0,5	25,0	6,7	65
432 05004 01	4 × 2 × 0,5	45,0	9,2	110
432 05008 01	8 × 2 × 0,5	85,0	11,8	181
432 05012 01	12 × 2 × 0,5	125,0	13,7	253
432 05016 01	16 × 2 × 0,5	165,0	15,8	307
432 05024 01	24 × 2 × 0,5	245,0	19,3	441
432 05032 01	32 × 2 × 0,5	325,0	21,4	556
432 05048 01	48 × 2 × 0,5	485,0	25,8	813
432 05096 01	96 × 2 × 0,5	965,0	34,4	1571

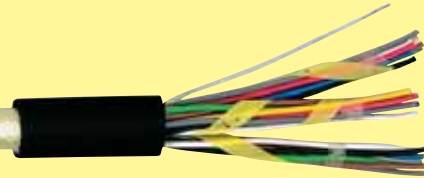


CC-process control cable RD-Y(St)Yv-(TP)-435



For Maxi-Termi-Point[®], shielded
Conforms to the EU low voltage guideline 73/23/EEC CE

ConCab Kabel Mainhardt 435 12x2x0,5 RD-Y(St)Yv(TP) CE



The CC-process control cable RD-Y(St)Yv-(TP)-435 shielded is used as a data cable for data transmission of control centres. The static shield ensures a reliable transmission of data and analogue signals and protects against electrical interferences and disturbances. These cables are for in- and outdoors as well as for direct burial. They are well suited for Maxi-Termi-Point[®] connection technology.

Construction

7-strands of bare copper wires, PVC core insulation, core colours acc. to VDE 0815, cores twisted in pairs with very short lay length, 4 pairs twisted in a bundle, bundles identified by numbers. Bundles twisted in layers, foil wrapping, tinned drain wire, aluminium foil. Reinforced PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black (RAL 9005).

*TermiPoint[®]: registered trademark of AMP enterprise

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
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black				
435 05002 00	2 × 2 × 0,5	25,0	8,5	95
435 05004 00	4 × 2 × 0,5	45,0	10,5	145
435 05008 00	8 × 2 × 0,5	85,0	13,0	240
435 05012 00	12 × 2 × 0,5	125,0	15,0	330
435 05016 00	16 × 2 × 0,5	165,0	17,0	400
435 05024 00	24 × 2 × 0,5	245,0	19,5	520
435 05032 00	32 × 2 × 0,5	325,0	22,0	720
435 05048 00	48 × 2 × 0,5	485,0	27,5	1050
435 05096 00	96 × 2 × 0,5	965,0	36,0	1900

Technical data

Operating peak voltage:
300 V
not for power application

Test voltage:
core/core: 2000 V
core/shield: 1000 V

Conductor stranding:
7 strand copper wire
acc. to VDE 0295, class 2

Loop resistance:
≤ 72 Ohm/km

Insulation resistance:
min. 100 MOhm × km

Capacitance at 800 Hz:
approx. 100 nF/km

Impedance:
at 1 kHz: approx. 370 Ohm
at 10 kHz: approx. 130 Ohm

Crosstalk attenuation at 10 kHz:
≥ 60 dB/500m

Inductance:
≤ 0,73 mH/km

Temperature range:
fixed installation: -30°C to + 80°C

Bending radius:
fixed installation: 7,5 × cable diameter

Approvals:
acc. to VDE 0815, 0816

HF-Data LAN- (CAT), Coaxial and Fibre Optic Cables



CC-LAN F/UTP J-02YS(St)...-(TP)-471

Twisted pairs for structured cabling acc. to EN 50173
Overall metal foil shield



ConCab Kabel Mainhardt 471 4x2xAWG24 J-02YS(St)H(TP) CE

**Also available pre-assembled patch
cables for Local Area Networks.
Ask for details about customized cables.**

The CC-LAN F/UTP J-02YS(St)...-(TP)-471 shielded is suitable to build information networks inside storey buildings. Polyethylene core paires with optimized lay lengths ensure a rapid and reliable transmission of high quantities of data. The static shield protects the pairs against electromagnetic disturbances. The patch cable facilitates the flexible connection of terminals.

Construction

Bare solid or respectively 7-strands of copper wire, cell-PE core insulation, paired cores twisted in layers, aluminium foil. Halogen-free polymere mixture or PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 59265-2-1 and IEC 60332-1). Colour grey. Other sheath colours upon request.

Technical data

Rated voltage:
150 V

Test voltage:
core/core: 500 V
core/shield: 1000 V

Conductor stranding:
AWG 24: solid
AWG 26: 7-strands

Loop resistance:
AWG 24: max. 190 Ohm/km
AWG 26: max. 290 Ohm/km

Impedance:
100 Ohm \pm 15 Ohm

Temperature range:
fixed installation: -30°C to +70°C
flexible application: -5°C to +50°C

Bending radius:
AWG 24
fixed installation: 4 \times cable diameter
AWG 26
flexible application: 4 \times cable diameter

Approvals:
acc. to EN 50173

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Part-No.	Type	No. of cores + AWG/diameter mm	Sheath material	Outer dimension approx. mm	Copper weight kg/km	Weight kg/km
CAT 5/100 MHz						
471 2404 152	F/UTP	(4 × 2 × AWG24/0,52Ø)	H	6,0Ø	18	43
471 2404 052	F/UTP	(4 × 2 × AWG24/0,52Ø)	PVC	6,0Ø	18	41
471 2408 152	Duplex-F/UTP	2 × (4 × 2 × AWG24/0,52Ø)	H	6,0 × 13,1	36	86
471 2408 052	Duplex-F/UTP	2 × (4 × 2 × AWG24/0,52Ø)	PVC	6,0 × 13,1	36	82
471 2604 152	Patch cable-F/UTP	(4 × 2 × AWG 26/7×0,16Ø)	H	5,2Ø	13	31
471 2604 052	Patch cable-F/UTP	(4 × 2 × AWG 26/7×0,16Ø)	PVC	5,2Ø	13	30
CAT 5E/200 MHz						
471 2404 15E2	F/UTP	(4 × 2 × AWG24/0,52Ø)	H	6,0Ø	18	43
471 2408 15E2	Duplex-F/UTP	2 × (4 × 2 × AWG24/0,52Ø)	H	6,0 × 12,2	36	86
471 2604 15E2	Patch cable-F/UTP	(4 × 2 × AWG 26/7×0,16Ø)	H	5,2Ø	13	31
CAT 6/250 MHz						
471 2404 162	F/UTP	(4 × 2 × AWG 24/0,52Ø)	H	6,9Ø	18	49
471 2404 062	F/UTP	(4 × 2 × AWG 24/0,52Ø)	PVC	6,9Ø	18	48
471 2408 162	Duplex-F/UTP	2 × (4 × 2 × AWG 24/0,52Ø)	H	6,9 × 14,4	36	96
471 2408 062	Duplex-F/UTP	2 × (4 × 2 × AWG 24/0,52Ø)	PVC	6,9 × 14,4	36	96

CC-LAN SF/UTP J-02YS(St)C...-(TP)-471

Twisted pairs for structured cabling acc. to EN 50173
Overall metal foil and copper braided shield



ConCab Kabel Mainhardt 471 4x2xAWG 24 J-02YS(St)CH(TP) CE



**Also available pre-assembled patch
cables for Local Area Networks.
Ask for details about customized cables.**

Technical data

Rated voltage:
150 V

Test voltage:
core/core: 500 V
core/shield: 1000 V

Conductor stranding:
AWG 23-24: solid conductor
AWG 26: 7 strands

Loop resistance:
AWG 23- 24: max. 190 Ohm/km
AWG 26: max. 290 Ohm/km

Impedance:
100 Ohm \pm 15 Ohm

Temperature range:
fixed installation: -30°C to +70°C
flexible application: -5°C to +50°C

Bending radius:
AWG 23, 24:
fixed installation: 4 \times cable diameter
AWG 26:
flexible application: 4 \times cable diameter

Approvals:
acc. to EN 50173

The CC-LAN SF/UTP J-02YS(St)C...-(TP)-471 shielded is suitable to build information networks inside storey buildings. Polyethylene core pairs with optimized lay lengths ensure a rapid and reliable transmission of high quantities of data. The static and the copper braided shield optimally protect the pairs from electromagnetic disturbances. The patch cable facilitates the flexible connection of terminals.

Construction

Bare solid respectively 7-strands of copper wire, cell-PE core insulation, paired cores twisted in layers. Aluminum foil, tinned copper shield. Halogen-free polymer or PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey.
Other sheath colours available upon request.

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Part-No.	Type	No. of cores + AWG/diameter mm	Sheath material	Outer dimension approx. mm	Copper weight kg/km	Weight kg/km
CAT 5/100 MHz						
471 2404 153	SF/UTP	(4 × 2 × AWG24/0,52Ø)	H	6,5Ø	32	56
471 2404 053	SF/UTP	(4 × 2 × AWG24/0,52Ø)	PVC	6,5Ø	32	54
471 2408 153	Duplex-SF/UTP	2 × (4 × 2 × AWG24/0,52Ø)	H	6,5 × 13,2	64	126
471 2408 053	Duplex-SF/UTP	2 × (4 × 2 × AWG26/0,52Ø)	PVC	6,5 × 13,2	64	120
CAT 5E/200 MHz						
471 2404 15E3	SF/UTP	(4 × 2 × AWG24/0,52Ø)	H	6,5Ø	32	63
471 2408 15E3	Duplex-SF/UTP	2 × (4 × 2 × AWG24/0,52Ø)	H	6,5 × 13,2	64	126
471 2604 15E3	Patch cable-SF/UTP	(4 × 2 × AWG26/7×0,16Ø)	H	5,9Ø	22	43
CAT 6E/350 MHz						
471 2304 163	SF/UTP	(4 × 2 × AWG23/0,6Ø)	H	7,2Ø	37	71
471 2304 063	SF/UTP	(4 × 2 × AWG23/0,6Ø)	PVC	7,2Ø	37	68
471 2308 163	Duplex-SF/UTP	2 × (4 × 2 × AWG23/0,6Ø)	H	14,8 × 7,3	74	154
471 2308 063	Duplex-SF/UTP	2 × (4 × 2 × AWG23/0,6Ø)	PVC	14,8 × 7,3	74	148
471 2604 163	Patch cable-SF/UTP	(4 × 2 × AWG26/7×0,16Ø)	H	5,7Ø	22	44
471 2604 063	Patch cable-SF/UTP	(4 × 2 × AWG26/7×0,16Ø)	PVC	5,7Ø	22	43

CC-LAN S/FTP PiMF-J-02YS(St)C...-(TP)-471

Twisted pairs for structured cabling acc. to EN 50173

Metal foil as pair shield (PiMF) with
copper braid overall shield



ConCab Kabel Mainhardt 471 4x2xAWG 24 PiMF-J-02YS(St)CH(TP)

**Also available pre-assembled patch
cables for Local Area Networks.
Ask for details about customized cables.**

The CC-LAN SF/TP PiMF J-02YS(St)C...-(TP)-471 shielded is suitable to build information networks inside storey buildings. Polyethylene core pairs with optimized lay lengths ensure a rapid reliable transmission of high quantities of data. The metal foil shielded pairs achieve a high degree of high crosstalk attenuation (ACR). The overall tinned copper shield facilitates reliable transmission of data respectively impulses and protects the cable against electromagnetic interferences. The patch cable ensures a flexible connection of terminals.

Construction

Bare solid or resp. 7-strands of copper wire, cell-PE core insulation, pairs twisted in layers, aluminium foil over each pair. Shielded pairs twisted in layers, foil. Halogen-free polymer mixture or PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Colour orange.

Other sheath colours available upon request.

Technical data

Rated voltage:
150 V

Test voltage:
core/core: 500 V
core/shield: 1000 V

Conductor stranding:
AWG 22–24: solid
AWG 26: 7-strands

Loop resistance:
AWG 22–24: max. 190 Ohm/km
AWG 26: max. 290 Ohm/km

Impedance:
100 Ohm \pm 15 Ohm

Temperature range:
fixed installation: -30°C to +70°C
flexible application: -5°C to +50°C

Bending radius:
AWG 22–24:
fixed installation: 4 \times cable diameter
AWG 26:
flexible application: 4 \times cable diameter

Approvals:
acc. to EN 50173

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Part-No.	Type	No. of cores + AWG/diameter mm	Sheath material	Outer dimension approx. mm	Copper weight kg/km	Weight kg/km
CAT 6/250 MHz						
471 2404 164	S/FTP	[4 × (2 × AWG24/0,52Ø)]	H	7,1Ø	37	67
471 2404 064	S/FTP	[4 × (2 × AWG24/0,52Ø)]	PVC	7,1Ø	37	65
471 2304 164	S/FTP	[4 × (2 × AWG23/0,56Ø)]	H	7,8Ø	42	74
471 2304 064	S/FTP	[4 × (2 × AWG23/0,56Ø)]	PVC	7,8Ø	42	72
471 2204 164	S/FTP	[4 × (2 × AWG22/0,64Ø)]	H	8,8Ø	50	90
471 2204 064	S/FTP	[4 × (2 × AWG22/0,64Ø)]	PVC	8,8Ø	50	87
471 2308 164	Duplex-S/FTP	2 × [4 × (2 × AWG23/0,56Ø)]	H	7,8 × 16,5	74	139
471 2308 064	Duplex-S/FTP	2 × [4 × (2 × AWG23/0,56Ø)]	PVC	7,8 × 16,5	74	136
471 2604 164	Patch cable-S/FTP	[4 × (2 × AWG26/7×0,16Ø)]	H	6,5Ø	22	49
471 2604 064	Patch cable-S/FTP	[4 × (2 × AWG26/7×0,16Ø)]	PVC	6,5Ø	22	47
CAT 7/600 MHz						
471 2304 174	S/FTP	[4 × (2 × AWG23/0,56Ø)]	H	7,8Ø	37	70
471 2308 174	Duplex-S/FTP	2 × [4 × (2 × AWG23/0,56Ø)]	H	7,8 × 16,5	74	140
471 2204 174	S/FTP	[4 × (2 × AWG22/0,64Ø)]	H	8,8Ø	50	94
471 2604 174	Patch cable-S/FTP	[4 × (2 × AWG26/7×0,16Ø)]	H	6,5Ø	22	49

CC-LAN-cable

LAN-cable acc. to IEEE 802.3 for ETHERNET-networks

ConCab Kabel Mainhardt LAN ETHERNET

CC-LAN-cable shielded is suitable for ETHERNET basis band transmission acc. to 10Base2 and 10Base5. These classic ETHERNET-LAN-cables have proved their worth in many computer networks for years. With a data transfer rate of 10Mbits/s you can achieve maximum segment lengths of 185 m with 10Base2 cables and 500m with 10Base5 cables.

Construction

10Base2:

Bare 7-strands of copper inside conductor, cell-PE core insulation, aluminium foil, tinned copper shield. PVC outer sheath.

10Base5:

Bare copper inside conductor, cell-PE core insulation, double aluminium foil, tinned copper shield, double tinned copper foil and tinned copper shield. PVC outer sheath.

Also available pre-assembled patch cables for Local Area Networks. Ask for details about customized cables.

Technical data

Impedance:
50 Ohm

Temperature range:
fixed installation: -25°C to +70°C

Bending radius:
10Base2: 10 × cable diameter
10Base5: 30 × cable diameter

Approvals:
IEEE 802.3

Part-No. and reference no.	Type	Attenuation at 10 MHz dB/100m	Shortening factor v/c	Capacitance pF/m	Inside cond. + Ø mm	Insulation material+ Ø mm	Ext. conductor resp. shield	Sheath material + outer-Ø approx. mm	Cu-weight kg/km	Weight kg/km
305 058 2	RG 58 C/U (10Base2, Cheapernet)	4,5	0,66	101	Cuvz 19 × 0,18	PE 2,95	CuGvz	PVC 4,9	20,5	38
170 124 8	1,0L/2,7 (10Base2)	4,4	0,81	83	Cu 7 × 0,35	cell-PE 2,7	AlF+CuGvz	PVC 4,6	21,0	33
170 045 1	2,2/6,3 (10Base5)	1,8	0,81	81	Cu 2,17	cell-PE 6,3	AlF+2 × CuGvz	PVC (yell.) 10,3	128,0	172

Abbreviations:

Cu = copper wire
G = braiding
vz = tinned
AlF = aluminium foil

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CC-LAN-cable

LAN-cable acc. IEEE 802.5 for Token-Ring-Network
acc. to IBM-standard

ConCab Kabel Mainhardt LAN TOKEN-RING

**Also available pre-assembled
with connectors. Ask for details
about customized cables.**

CC-LAN-cables shielded are used as data cables in the cabling systems of the Token-Ring-Networks of IBM with a data rate of 4MBit/s and 16MBit/s. The "A"-Types are approved for data rates of up to 100MBit/s.

Construction

acc. to IBM-specification:

Type 1 with 2 drilled 0,64mmØ double cores,
Type 6 with 0,40mmØ copper wires,
cell-PE core insulation, core colours are red,
green, orange and black. Pairs are double
shielded with aluminium foil and tinned
copper shield. PVC outer sheath.

Twinax cable:

Inside conductor out of 7-strands of tinned
copper wire, PE core insulation,
cores twisted in pairs with very short lay
lengths, tinned copper shield.
PVC outer sheath.

Technical data

Temperature range:

Type 1: -10°C to +70°C
Type 6: -35°C to +85°C
Twinax: -10°C to +60°C

Bending radius:

Type 1: 75 mm
Type 6: 50 mm
Twinax: 50 mm

Approvals:
IEEE 802.5

Part-No. and IBM- reference no.	Type	No. of cores + Ø / AWG	Impedance	Attenuation			Ext. conductor resp. shield	Outer dimension approx. mm	Cable- weight kg/km
			at 3 to 20MHz Ω	at dB/100 m	atMHz	atMHz			
33G2772	LAN Typ 1A	2 × 2 × 0,64Ø (AWG22/1)	150	2,2	4,4		Al-foil, CuGvz	8 × 12	95
4716734	LAN Typ 1 outside	2 × 2 × 0,64Ø (AWG22/1)	150	2,2	4,4		Al-foil, CuGvz	10 × 14	150
33G2775	LAN Typ 6A flex.	2 × 2 × 0,4Ø (AWG26/7)	150	3,3	6,6		Al-foil, CuGvz	8,5Ø	60
7362211	Twinax	2 × AWG20/7	105			4,9	CuGvz	8,3Ø	90

Abbreviations:

CuGvz = tinned copper wire braiding


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CC-coaxial cable-305

CC-monitor cable-300

For high frequency analogue and digital signals

ConCab Kabel Mainhardt VIDEO 0,6/3,7



Also available pre-assembled with sockets and connectors. Ask for details about customized cables.

CC-coaxial cable-305 and CC-monitor cable-300 are used for high frequency transmission in broadcasting, receiving stations and telecommunication equipment. They are also used in EDP as well as in industrial and entertainment electronics. Video and monitor cables serve for low attenuation transmission of analogue and digital television signals between cameras and monitors. Special halogen-free and flame retardant cables (FRNC) are provided for areas that need special protection for humans and equipment against fire.

Construction

Please refer to table for inside conductors, insulation, outside conductors and sheaths.

Technical data

Dielectric constants:

PE (2Y):	2,3
Cell-PE (02Y):	1,8
Hollow space-PE (2Yho):	1,5
PTFE (5Y):	2,1
FEP (6Y):	2,1

Temperature range for fixed installation:

PE (2Y):	-40°C to +80°C
PVC (Y), FRNC(H):	-25°C to +70°C
FEP (6Y), PTFE (5Y):	-55°C to +200°C

Bending radius:

fixed installation: approx. 10 × cable diameter

Approvals:

RG-types acc. to MIL-C-17,
acc. to DIN 47383, 47384, 47389



Part-No.	Type	Impedance Ω	Attenuation at 100 MHz dB/100 m	Shortening factor v/c	Capacitance pF/m	Inside cond. + \varnothing mm	Insulation material + \varnothing mm	Outer conductor resp. shield	Sheath material + outer- \varnothing mm	Cu- weight kg/km	Weight kg/km
RG-coaxial cable											
305 006 0	RG6 A/U	75	9,1	0,66	67,0	StCu 0,72	PE 4,70	CuGvs+CuG	PVC 8,4	67,0	116
305 011 0	RG11 A/U	75	7,6	0,66	67,0	Cuvz 7×0,4	PE 7,24	CuG	PVC 10,3	58,0	104
305 058 2	RG58 C/U	50	16,0	0,66	101,0	Cuvz 19×0,18	PE 2,95	CuGvz	PVC 4,9	20,5	38
305 058 3	RG58 FRNC	50	16,0	0,66	101,0	Cuvz 19×0,18	PE 2,95	CuGvz	FRNC 5,0	20,5	38
305 059 1	RG59 B/U	75	11,2	0,66	67,0	StCu 0,58	PE 3,70	CuG	PVC 6,2	25,0	57
305 059 2	RG59 FRNC	75	11,2	0,66	67,0	StCu 0,58	PE 3,70	CuG	FRNC 6,2	25,0	58
305 062 0	RG62 A/U	93	10,3	0,83	42,5	StCu 0,64	PE-hollow 3,7	CuG	PVC 6,2	25,0	54
305 062 1	RG62 PUR	93	10,3	0,83	42,5	StCu 0,64	PE-hollow 3,7	CuG	PUR 6,2	25,0	54
305 062 2	RG62 FRNC	93	10,3	0,83	42,5	StCu 0,64	PE-hollow 3,7	CuG	FRNC 6,2	25,0	56
305 071 1	RG71 B/U	93	10,3	0,83	42,5	StCu 0,64	PE-hollow 3,7	2×CuG	PE 6,5	46,0	70
305 174 0	RG174 A/U	50	31,0	0,66	101,0	StCu 7×0,16	PE 1,5	CuGvz	PVC 2,8	6,0	12
305 178 1	RG178 B/U	50	42,8	0,7	93,0	StCuvs 7×0,1	FEP 0,84	CuGvs	FEP 1,8	5,0	9
305 179 1	RG179 B/U	75	27,9	0,7	63,0	StCuvs 7×0,1	FEP 1,6	CuGvs	FEP 2,45	8,0	16
305 187 0	RG187 A/U	75	27,9	0,7	64,0	StCuvs 7×0,1	FEP 1,6	CuGvs	PTFE 2,6	8,0	17
305 188 0	RG188 A/U	50	27,8	0,7	94,0	StCuvs 7×0,16	PTFE 1,52	CuGvs	PTFE 2,6	9,0	17
305 213 0	RG213 U	50	6,6	0,66	101,0	Cu 7×0,75	PE 7,24	CuG	PVC 10,3	82,0	157
305 213 1	RG213 FOAM	50	4,9	0,8	83,0	Cu 7×0,75	cell-PE 6,0	CuF+CuG	PE 9,0	59,0	98
305 213 2	RG213 FRNC	50	6,6	0,66	101,0	Cu 7×0,75	PE 7,24	CuG	FRNC 10,3	82,0	165
305 214 0	RG214 U	50	6,6	0,66	101,0	Cu 7×0,75	PE 7,24	2×CuGvs	PVC 10,8	118,0	207
305 214 2	RG214 FRNC	50	6,6	0,66	101,0	Cu 7×0,75	PE 7,24	2×CuGvs	FRNC 10,8	118,0	215
305 216 0	RG216 U	75	7,6	0,66	67,0	Cuvz 7×0,4	PE 7,24	2×CuG	PVC 10,8	98,0	187
305 223 0	RG223 U	50	13,5	0,66	101,0	Cuvs 0,9	PE 2,95	2×CuGvs	PVC 5,3	42,0	60
305 316 0	RG316 U	50	27,8	0,70	94,0	StCuvs 7×0,16	FEP 1,52	CuGvs	FEP 2,5	8,5	15

Abbreviations:

StCu	=	copper plated steel wire
Cu	=	copper wire
G	=	braiding
vz	=	tinned
vs	=	silver plated

CC-coaxial cable-305

CC-monitor cable-300

For high frequency analogue and digital signals

Part-No.	Type	Impe- dance Ω	Attenuation in dB/100 m at MHz			Shorten- ing- factor v/c	Capa- citan- ce pF/m	Inside- con- ductor + \varnothing mm	Insulation material + \varnothing mm	Outer conductor resp. shield	Sheath material + dimensions mm	Weight kg/km
			1750	2150	2400							
SAT coaxial cable to 2400 MHz, double shielded												
for analogue SAT-receivers												
305 0630 009	0,65/3,0	75	42,6	46,9	49,4	0,83	53,0	Cu 0,65	cell-PE 3,0	AlF+CuGvz	PVC 4,6 \varnothing	26
305 0630 209	2x(0,65/3,0)	75	42,6	46,9	49,5	0,83	53,0	Cu 0,65	cell-PE 3,0	AlF+CuGvz	PVC 5,0x10,3	59
305 1148 009	1,1/4,8	75	26,0	28,7	31,3	0,85	52,0	Cu 1,13	cell-PE 4,8	AlF+AlG	PVC 6,7 \varnothing	35
305 1672 000	1,6/7,2	75	17,9	20,8	21,9	0,84	53,0	Cu 1,63	cell-PE 7,2	AlF+CuGvz	PE 10,1 \varnothing	83
for digital SAT-receivers												
305 0630 109	0,65/3,0D	75	41,0	46,2	48,6	0,83	53,0	Cu 0,65	cell-PE 3,0	AlF+CuGvz	PVC 4,6 \varnothing	29
305 1148 109	1,1/4,8D	75	25,1	28,4	30,9	0,85	52,0	Cu 1,13	cell-PE 4,8	AlF+CuGvz	PVC 7,0 \varnothing	45
305 1672 100	1,6/7,2D	75	17,1	19,5	21,4	0,84	53,0	Cu 1,63	cell-PE 7,2	AlF+CuGvz	PE 10,1 \varnothing	90

Part-No.	Type	Impe- dance Ω	Attenuation at 10 MHz dB/100m	Shorten- ing factor v/c	Capa- citan- ce pF/m	Inside- con- ductor + \varnothing mm	Insulation material + \varnothing mm	Outer conductor resp. shield	Sheath material + outer \varnothing mm	Copper weight kg/km	Weight kg/km
Video cable											
305 0637 110	0,6/3,7	75	3,4	0,66	67,0	Cu 0,60	PE 3,7	CuG	PVC (green) 6,1	17,0	46
305 0637 310	0,6/3,7 FRNC	75	3,5	0,66	67,0	Cu 0,60	PE 3,7	AlF+CuG	FRNC (green) 6,1	17,0	50
305 0637 010	0,6 L/3,7	75	4,4	0,66	67,0	Cu 7x0,20	PE 3,7	CuG	PVC (green) 6,1	18,0	46
305 0637 210	0,6 L/3,7 FRNC	75	4,5	0,66	67,0	Cu 7x0,20	PE 3,7	AlF+CuG	FRNC (green) 6,1	18,0	50
305 1166 010	1,1/6,6	75	2,0	0,66	67,0	Cu 1,0	PE 6,6	CuG	PVC (green) 8,8	35,0	93
305 1166 100	1,1/6,6	75	2,0	0,66	67,0	Cu 1,0	PE 6,6	CuG	PE (black) 8,8	35,0	85
305 1166 210	1,1/6,6 FRNC	75	2,1	0,66	67,0	Cu 1,0	PE 6,6	AlF+CuG	FRNC 9,0	35,0	103



Part-No.	Type shield	Impedance Ω	Attenuation at 10 MHz dB/100m	Shortening factor v/c	Capacitance pF/m	Inside cond. + diameter mm	Insulation material + \varnothing mm	Outer conductor resp.	Coax sheath material + diameter mm	Overall-shield	Outer sheath material + outer- \varnothing mm	Copper weight kg/km	Weight kg/km
Multi-Video cable/Colour-Monitor cable													
300 0415 300	3×0,37/1,5	75	5,8	0,81	60,0	Cu 0,37	cell-PE 1,5	CuGvz	PVC (red, green, blue) 2,6	AIF	PVC (black) 7,2	23,0	59
300 0415 500	5×0,37/1,5	75	5,8	0,81	60,0	Cu 0,37	cell-PE 1,5	CuGvz	PVC (red, green, blue, white black) 2,6	AIF	PVC (black) 9,0	36,0	88
300 0637 300	3×0,6/3,7	75	3,4	0,66	67,0	Cu 0,60	PE 3,7	CuG	PVC (red, green, blue) 6,1	AIF	PVC 16,0	66,0	275
300 0637 500	5×0,6/3,7	75	3,4	0,66	67,0	Cu 0,60	PE 3,7	CuG	PVC (red, green, blue, white, black) 6,1	AIF	PVC 19,0	102,0	398
300 0312 500	5×0,3L/1,2 flexible	75	15,6	0,81	60,0	StCuvz 7×0,10	cell-PE 1,2	CuGvz	PVC (red, green, blue, white, black) 2,2	Cuvz	PVC (black) 8,0	43,5	80

Abbreviations:

Cu	=	copper wire
G	=	braiding
vz	=	tinned
Al	=	aluminium wire
AIF	=	aluminium foil

CC-POF-cable

Halogen- and metal free plastic optical fibre cable 1 or 2 plastic fibres

ConCab Kabel Mainhardt POF 2P 980/1000



Also available pre-assembled with connectors. Ask for our information about customized cables.

The CC-POF-cable (plastic optical fibre) is designed for simple and economical connection in data technology and field bus applications. The maximum distance can be up to 100 m with a 660 nm wavelength depending on the fibre attenuation. The lighter 2Y-version is preferred for indoor use. The design with additional PUR-sheath (11Y) is for rougher environment as well as for power supply chains. The CC-POF-cables can be fitted exceptionally simply and fast with the popular POF connector systems.

Construction

Plastic step index fibre, PE sheath, colour black.

Duplex version:

Additional core sheath with core colour marking, cores are separable.

PUR (11Y)-design:

Addition PUR outer sheath, Colour orange (RAL 2003).

Technical data

Fibre type:

PMMA-step index fibre
core diameter: 980 µm
cladding diameter: 1000 µm

Attenuation:

max. 200 dB/km at 650 nm

Temperature range:

fixed installation: -20°C to +80°C
flexible application: -10°C to +60°C

Bending radius:

fixed installation: 10 × cable diameter
flexible application: 15 × cable diameter

Part-No.	Type	Dimension mm	Max. tensile load N	Weight kg/km
01 0980 0100	I-V2Y 1P980/1000	2,2 Ø	120	4
01 0980 0200	I-V2Y 2P980/1000	2,2 × 4,4	230	7
02 0980 0108	I-V2Y11Y 1P980/1000	5,0 Ø	200	28
02 0980 0208	I-V2Y11Y 2P980/1000	5,5 Ø	300	35

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CC-indoor fibre optic cable-0106

I-V(ZN)H, I-V(ZN)Y, I-V(ZN)H11Y, I-V(ZN)HH, I-V(ZN)YY
with 1 or 2 fibres for direct connector mounting

ConCab Kabel Mainhardt I-V(ZN)H 2G50/125 ~~~

The CC-indoor fibre optic cable-0106 are ideal as connection cable for indoor use as patch cable and pigtail. The cable construction is especially designed to be adapted for direct connector mounting. The standard indoor fibre cables are halogen-free and flame retardant. Also available with an additional PUR sheath for heavy mechanical demands and rough industrial environments.

Also available pre-assembled with connectors. Ask for our information about customized cables.

The single cores of the duplex version are separable, or the overall outer sheath is strippable by zip-cord without the need of tools. Standard outer sheath colours are grey or orange. Other outer sheath colours upon request.

Construction

Graded index or single mode quartz fibre, composite tight buffer design, aramid tensile strength members.

I-V(ZN)H:

Outer sheath halogen-free and flame retardant.

I-V(ZN)Y:

PVC outer sheath, flame retardant.

I-V(ZN)H11Y:

Inner sheath halogen-free and flame retardant,
PUR outer sheath

I-V(ZN)HH:

Inner sheath and outer sheath halogen-free, flame retardant polymer mixture.

I-V(ZN)YY:

PVC inner sheath and PVC outer sheath,
flame retardant.

Technical data

Fibre type:

Quartz graded index fibre:
core diameter: 50 µm resp. 62,5 µm
cladding diameter: 125 µm

Quartz single mode fibre:
core diameter: 9 µm
cladding diameter: 125 µm

Composite / tight buffered fibre core:

core diameter: 0,9 mm

Temperature range:

fixed installation: -5°C to +60°C
flexible application: -5°C to +50°C

Bending radius:

15 × cable diameter

Approvals:

acc. to VDE 0888,
EN 188000

Part-No.	Part-No.	Part-No.	Type	Fibre amount	Dimension	Max. tensile load	Weight
G50/125	G62,5/125	E9/125			mm	N	kg/km
0106 01 050 1..	0106 01 062 1..	0106 01 009 1..	I-V(ZN)H	1	2,8 Ø	300	10
0106 02 050 1..	0106 02 062 1..	0106 02 009 1..	I-V(ZN)H	2	2,8 × 6	600	20
0106 01 050 0..	0106 01 062 0..	0106 01 009 0..	I-V(ZN)Y	1	2,8 Ø	300	9,5
0106 02 050 0..	0106 02 062 0..	0106 02 009 0..	I-V(ZN)Y	2	2,8 × 6	600	19
0106 02 050 2..	0106 02 062 2..	0106 02 009 2..	I-V(ZN)H11Y	2	4,5 × 7,5	600	38
0106 02 050 3..	0106 02 062 3..	0106 02 009 3..	I-V(ZN)HH	2	4,5 × 7,5	600	40
0106 02 050 4..	0106 02 062 4..	0106 02 009 4..	I-V(ZN)YY	2	4,5 × 7,5	600	39

When ordering please complete the part no. with the following ref- no. .. = colour
00 black
01 blue
03 red
05 grey
08 orange
09 yellow
10 green

CC-fibre optic-breakout cable AT-V(ZN)HH-0104

Halogen- and metal free for direct connector mounting
4 to 18 fibres



ConCab Kabel Mainhardt AT-V(ZN)HH 12G50/125 ~~~

Also available pre-assembled with connectors. Ask for our information about customized cables.

The CC-fibre optic-breakout cable AT-V(ZN)HH-0104 is suitable for simple connections of distribution panels inside buildings as well as outside. The “classical” construction with robust simplex indoor cables provides the best possible protection of free fibre ends in patch panels and is easy to use for connector mounting. The halogen-free, flame retardant outer sheath confirms to the strict fire protection regulations for buildings.

Construction

Graded, index or single mode quartz fibre, composite tight buffer design, aramid tensile strength members. Core sheath halogen-free, flame retardant polymer mixture, cores identified through colour code or numerals, cores twisted in layers. Outer sheath out of halogen-free, flame retardant polymer mixture. Colour black (RAL 9005).

Technical data

Fibre type:

Quartz graded index fibre:
core diameter: 50 µm resp. 62,5 µm
cladding diameter: 125 µm

Quartz single mode fibre:
core diameter: 9 µm
cladding diameter: 125 µm

Composite tight buffer fibre core:
diameter: 0,9 mm

Simplex indoor cable:
core diameter: 2,5 mm

Temperature range:
operation: -10°C to +70°C
installation and assembly: -5°C to +50°C

Bending radius:
12 × cable diameter

Approvals:
acc. to VDE 0888, EN 188000

Part-No.	Part-No.	Part-No.	Type	Amount of fibres	Outer diameter approx. mm	Max. tensile load N	Weight kg/km
G 50/125	G 62,5/125	E 9/125					
0104 02 050 0	0104 02 062 0	0104 02 009 0	AT-V(ZN)HH	2	8,0	1000	64
0104 04 050 0	0104 04 062 0	0104 04 009 0	AT-V(ZN)HH	4	8,0	1000	100
0104 06 050 0	0104 06 062 0	0104 06 009 0	AT-V(ZN)HH	6	10,6	1000	100
0104 08 050 0	0104 08 062 0	0104 08 009 0	AT-V(ZN)HH	8	12,2	1000	140
0104 12 050 0	0104 12 062 0	0104 12 009 0	AT-V(ZN)HH	12	13,6	1200	180
0104 16 050 0	0104 16 062 0	0104 16 009 0	AT-V(ZN)HH	16	15,6	1600	200
0104 18 050 0	0104 18 062 0	0104 18 009 0	AT-V(ZN)HH	18	15,6	1600	200

CC-fibre optic minibreakout cable

I-V(ZN)H-0105

Halogen- and metal free for direct connector mounting
2 to 20 fibres

ConCab Kabel Mainhardt I-V(ZN)H 8G50/125 ---



Also available pre-assembled with connectors. Ask for our information about customized cables.

Technical data

The CC-fibre optic minibreakout cable I-V(ZN)H-0105 is ideal for simple fast and economical connections in buildings e.g., patch panels, backbones and direct link-ups to PC's. Due to the compact dimensions of the single cores, it is easy and economical to link-up larger distribution panels. The halogen-free, flame retardant outer sheath of the minibreakout cable confirms to the strict fire protection regulations for buildings.

Construction

Graded index or single mode quartz fibre, composite tight buffer design, cores coloured and with broken line coding, cores twisted in layers, aramid tensile strength members, outer sheath halogen-free and flame retardant polymer mixture. Colour grey.

Fibre type:
Quartz graded index fibre:
core diameter: 50 µm resp. 62,5 µm
cladding diameter: 125 µm

Quartz single mode fibre:
core diameter: 9 µm
cladding diameter: 125 µm

Composite tight buffer fibre core:
diameter: 0,9 mm

Temperature range:
operation: -10°C to +70°C
installation and assembly: 5°C to +50°C

Bending radius:
12 × cable diameter

Approvals:
acc. to VDE 0888, EN 188000

Part-No.	Part-No.	Part-No.	Type	Amount of fibres	Outer diameter approx. mm	Max. tensile load N	Weight kg/km
G 50/125	G 62,5/125	E 9/125					
0105 02 050 5	0105 02 062 5	0105 02 009 5	I-V(ZN)H	2	5,5	1200	28
0105 04 050 5	0105 04 062 5	0105 04 009 5	I-V(ZN)H	4	5,5	1200	28
0105 06 050 5	0105 06 062 5	0105 06 009 5	I-V(ZN)H	6	6,0	1200	33
0105 08 050 5	0105 08 062 5	0105 08 009 5	I-V(ZN)H	8	6,0	1200	33
0105 12 050 5	0105 12 062 5	0105 12 009 5	I-V(ZN)H	12	7,0	1200	47
0105 16 050 5	0105 16 062 5	0105 16 009 5	I-V(ZN)H	16	7,2	1200	42
0105 20 050 5	0105 20 062 5	0105 20 009 5	I-V(ZN)H	20	7,2	1200	42

CC-fibre optic universal cable-0102

A/I-D(ZN)H, A/I-D(ZN)BH, A/I-DQ(ZN)H, A/I-DQ(ZN)BH
Halogen-free 2 to 24 fibres with centralized loose tube

ConCab Kabel Mainhardt A/I-D(ZN)BH 4G50/125 ~~~



Also available pre-assembled with connectors. Ask for our information about customized cables.

The CC-fibre optic universal cable-0102 is suitable as a compact, easily mountable economical connection of data networks for indoor as well as outdoor areas. The halogen-free, flame retardant outer sheath ensures that the cable fulfils the strict fire protection regulations for buildings. Due to the central arrangement of the loose tubes, the outer diameter is tighter and the cable weights less in comparison to the “classical” twisted outer cables. The laying in tubes and ducts is much easier. The swellable fleece respectively impregnation of the tensile strength members makes the A/I-DQ... types 100% longitudinally waterproof. Additional glass roving provide an increased cross-sectional resistance to pressure as well as rodent protection for the A/I-D...BH... types.

Construction

Graded index or single mode quartz fibre, centralized loose tube with optional gel filling, non-metallic tensile strength members of glass respectively aramid roving, optional swellable. Outer sheath of halogen-free, flame retardant polymer mixture.
Colour black (RAL 9005).

Technical data

Fibre type:

Quartz graded index fibre
core diameter: 50 µm resp. 62,5 µm
cladding diameter: 125 µm

Quartz single mode fibre:

core diameter: 9 µm
cladding diameter: 125 µm

Loose tubes:

No. of fibres	diameter
2 to 12	2,8 mm
12 to 16	3,5 mm
16 to 24	4,0 mm

Temperature range:

operation: -30°C to +70°C
installation and assembly: -5°C to +50°C

Bending radius:

15 × cable diameter

Approvals:

acc. to VDE 0888, EN 188000

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Part-No.	Part-No.	Part-No.	Type	Amount of fibres	Outer diameter approx. mm	Max. tensile load N	Weight kg/km
G50/125	G62,5/125	E9/125					
0102 02 050 10	0102 02 062 10	0102 02 009 10	A/I-D(ZN)H	2	6,0	1000	30
0102 04 050 10	0102 04 062 10	0102 04 009 10	A/I-D(ZN)H	4	6,0	1000	30
0102 06 050 10	0102 06 062 10	0102 06 009 10	A/I-D(ZN)H	6	6,0	1000	30
0102 08 050 10	0102 08 062 10	0102 08 009 10	A/I-D(ZN)H	8	6,0	1000	30
0102 10 050 10	0102 10 062 10	0102 10 009 10	A/I-D(ZN)H	10	6,0	1000	30
0102 12 050 10	0102 12 062 10	0102 12 009 10	A/I-D(ZN)H	12	6,0	1000	30
0102 16 050 10	0102 16 062 10	0102 16 009 10	A/I-D(ZN)H	16	7,0	1000	38
0102 24 050 10	0102 24 062 10	0102 24 009 10	A/I-D(ZN)H	24	9,0	1000	61
0102 02 050 30	0102 02 062 30	0102 02 009 30	A/I-D(ZN)BH	2	8,5	1500	58
0102 04 050 30	0102 04 062 30	0102 04 009 30	A/I-D(ZN)BH	4	8,5	1500	58
0102 06 050 30	0102 06 062 30	0102 06 009 30	A/I-D(ZN)BH	6	8,5	1500	58
0102 08 050 30	0102 08 062 30	0102 08 009 30	A/I-D(ZN)BH	8	8,5	1500	58
0102 10 050 30	0102 10 062 30	0102 10 009 30	A/I-D(ZN)BH	10	8,5	1500	58
0102 12 050 30	0102 12 062 30	0102 12 009 30	A/I-D(ZN)BH	12	8,5	1500	58
0102 24 050 30	0102 24 062 30	0102 24 009 30	A/I-D(ZN)BH	24	9,0	1500	66
0102 02 050 20	0102 02 062 20	0102 02 009 20	A/I-DQ(ZN)H	2	8,5	1500	60
0102 04 050 20	0102 04 062 20	0102 04 009 20	A/I-DQ(ZN)H	4	8,5	1500	60
0102 06 050 20	0102 06 062 20	0102 06 009 20	A/I-DQ(ZN)H	6	8,5	1500	60
0102 08 050 20	0102 08 062 20	0102 08 009 20	A/I-DQ(ZN)H	8	8,5	1500	60
0102 10 050 20	0102 10 062 20	0102 10 009 20	A/I-DQ(ZN)H	10	8,5	1500	60
0102 12 050 20	0102 12 062 20	0102 12 009 20	A/I-DQ(ZN)H	12	8,5	1500	60
0102 24 050 20	0102 24 062 20	0102 24 009 20	A/I-DQ(ZN)H	24	9,0	1500	66
0102 02 050 40	0102 02 062 40	0102 02 009 40	A/I-DQ(ZN)BH	2	11,0	2500	100
0102 04 050 40	0102 04 062 40	0102 04 009 40	A/I-DQ(ZN)BH	4	11,0	2500	100
0102 06 050 40	0102 06 062 40	0102 06 009 40	A/I-DQ(ZN)BH	6	11,0	2500	100
0102 08 050 40	0102 08 062 40	0102 08 009 40	A/I-DQ(ZN)BH	8	11,0	2500	100
0102 10 050 40	0102 10 062 40	0102 10 009 40	A/I-DQ(ZN)BH	10	11,0	2500	100
0102 12 050 40	0102 12 062 40	0102 12 009 40	A/I-DQ(ZN)BH	12	11,0	2500	100
0102 24 050 40	0102 24 062 40	0102 24 009 40	A/I-DQ(ZN)BH	24	11,5	2500	112



CC-fibre optic outdoor cable-0103

A-DQ(ZN)2Y ... Lg, A-DQ(ZN)B2Y ... Lg
Halogen-free 20 to 144 fibres with twisted loose tubes



The CC-fibre optic outdoor cable-0103 is ideal for long distance outdoor data networks. The robust PE outer sheath provides the best resistance to environmental stress and ultraviolet radiation. The outdoor cables are intended to be laid in tubes, cable ducts and direct burial. The A-DQ types are 100% longitudinally waterproof due to the gel filling in the core bundles as well as the swellable fleece respectively impregnation of the non-metallic strain relief elements.

Additional glass rovings provide a high tensile strength cross-sectional resistance to pressure as well as rodent protection in the A-DQ ... B2Y types.

Construction

Graded index or single mode quartz fibre, gel filled loose tube, FRP rod, loose tubes twisted in layers, non-metallic strain relief out of glass fibre or aramid roving.
PE outer sheath.
Colour black (RAL 9005).

Technical data

Fibre type:

Quartz graded index fibre:
core diameter: 50 μm resp. 62,5 μm
cladding diameter: 125 μm

Quartz single mode fibre:
core diameter: 9 μm
cladding diameter: 125 μm

Loose tubes:

max. 12 fibres
diameter: 2,8 mm to 3,0 mm

Temperature range:

operation: -20°C to +70°C
installation and assembly: -5°C to +50°C

Bending radius:

15 \times cable diameter

Approvals:

acc. to VDE 0888, EN 188000

ConCab kabel connects the world



Part-No. G50/125	Part-No. G62,5/125	Part-No. E9/125	Type	Amount of fibres	Outer diameter approx. mm	Max. tensile load N	Weight kg/km
0103 020 050 20	0103 020 062 20	0103 020 009 20	A-DQ(ZN)2Y	20	14,5	3000	165
0103 024 050 20	0103 024 062 20	0103 024 009 20	A-DQ(ZN)2Y	24	14,5	3000	165
0103 030 050 20	0103 030 062 20	0103 030 009 20	A-DQ(ZN)2Y	30	14,5	3000	180
0103 036 050 20	0103 036 062 20	0103 036 009 20	A-DQ(ZN)2Y	36	15,5	3000	180
0103 040 050 20	0103 040 062 20	0103 040 009 20	A-DQ(ZN)2Y	40	14,5	3000	180
0103 050 050 20	0103 050 062 20	0103 050 009 20	A-DQ(ZN)2Y	50	14,5	3000	180
0103 060 050 20	0103 060 062 20	0103 060 009 20	A-DQ(ZN)2Y	60	14,5	3000	180
0103 072 050 20	0103 072 062 20	0103 072 009 20	A-DQ(ZN)2Y	72	16,0	4000	205
0103 080 050 20	0103 080 062 20	0103 080 009 20	A-DQ(ZN)2Y	80	16,5	4000	205
0103 096 050 20	0103 096 062 20	0103 096 009 20	A-DQ(ZN)2Y	96	16,5	4000	205
0103 100 050 20	0103 100 062 20	0103 100 009 20	A-DQ(ZN)2Y	100	17,0	4000	215
0103 120 050 20	0103 120 062 20	0103 120 009 20	A-DQ(ZN)2Y	120	18,0	4000	240
0103 144 050 20	0103 144 062 20	0103 144 009 20	A-DQ(ZN)2Y	144	20,0	4000	260
0103 020 050 40	0103 020 062 40	0103 020 009 40	A-DQ(ZN)B2Y	20	15,5	9000	200
0103 024 050 40	0103 024 062 40	0103 024 009 40	A-DQ(ZN)B2Y	24	15,5	9000	200
0103 030 050 40	0103 030 062 40	0103 030 009 40	A-DQ(ZN)B2Y	30	15,5	9000	200
0103 036 050 40	0103 036 062 40	0103 036 009 40	A-DQ(ZN)B2Y	36	15,5	9000	200
0103 040 050 40	0103 040 062 40	0103 040 009 40	A-DQ(ZN)B2Y	40	15,5	9000	200
0103 050 050 40	0103 050 062 40	0103 050 009 40	A-DQ(ZN)B2Y	50	15,5	9000	200
0103 060 050 40	0103 060 062 40	0103 060 009 40	A-DQ(ZN)B2Y	60	15,5	9000	200
0103 072 050 40	0103 072 062 40	0103 072 009 40	A-DQ(ZN)B2Y	72	16,5	9000	210
0103 080 050 40	0103 080 062 40	0103 080 009 40	A-DQ(ZN)B2Y	80	17,5	9000	230
0103 096 050 40	0103 096 062 40	0103 096 009 40	A-DQ(ZN)B2Y	96	17,5	9000	230
0103 100 050 40	0103 100 062 40	0103 100 009 40	A-DQ(ZN)B2Y	100	18,0	9000	240
0103 120 050 40	0103 120 062 40	0103 120 009 40	A-DQ(ZN)B2Y	120	19,0	9000	260
0103 144 050 40	0103 144 062 40	0103 144 009 40	A-DQ(ZN)B2Y	144	21,0	9000	308




Telephone- and
fire alarm cables



CC-telephone cable J-YY...Bd-410

Installation cable acc. to VDE 0815



ConCab Kabel Mainhardt 410 40x2x0,6 J-YY Bd

Technical data

Rated voltage:
250 V

Test voltage:
800 V

Conductor stranding:
solid copper wire $\varnothing 0,6 \text{ mm} \approx 0,28 \text{ mm}^2$

Loop resistance:
 $\leq 130 \text{ Ohm/km}$

Insulation resistance:
min. $100 \text{ MOhm} \times \text{km}$

Capacitance at 800 Hz:
approx. 100 nF/km

Coupling at 800 Hz:
K1 approx. 300 pF/100m
K9...K12 approx. 100 pF/100m

Attenuation at 800 Hz:
approx. $1,5 \text{ dB/km}$

Temperature range:
fixed installation: -30°C to $+80^\circ\text{C}$

The CC-telephone cable J-YY...Bd-410 is a popular choice for fixed installation of telephone equipment indoors. Synchronized twisted core pair lengths cause minimum coupling values.

Construction

Bare solid copper wire, PVC core insulation, core colours and identification acc. to VDE 0815 (section 4.4.8), 4 cores twisted to star quad, foil wrapping. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour grey (RAL 7032).

Bending radius:
one-time bending without tensile force:
 $2,5 \times \text{cable diameter}$
multiple bending under tensile force or during transport:
 $7,5 \times \text{cable diameter}$

Approvals:
acc. to VDE 0815

ConCab kabel connects the world



Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
410 06 001	1 × 2 × 0,6	5,7	4,5	26
410 06 002	2 × 2 × 0,6	11,0	4,8	35
410 06 004	4 × 2 × 0,6	23,0	6,8	60
410 06 006	6 × 2 × 0,6	34,0	7,1	75
410 06 010	10 × 2 × 0,6	57,0	8,3	100
410 06 016	16 × 2 × 0,6	90,0	10,7	165
410 06 020	20 × 2 × 0,6	113,0	11,9	201
410 06 024	24 × 2 × 0,6	138,0	12,3	228
410 06 030	30 × 2 × 0,6	170,0	13,5	285
410 06 040	40 × 2 × 0,6	226,0	14,8	362
410 06 050	50 × 2 × 0,6	283,0	16,1	439
410 06 060	60 × 2 × 0,6	339,0	17,6	518
410 06 080	80 × 2 × 0,6	452,0	20,5	685
410 06 100	100 × 2 × 0,6	565,0	22,5	840

CC-telephone cable J-Y(St)Y...Lg-420

Installation cable acc. to VDE 0815, shielded



ConCab Kabel Mainhardt 420 8x2x0,6 J-Y(St)Y Lg

Technical data

Rated voltage:
250 V

Test voltage:
800 V

Conductor stranding:
solid copper wire $\varnothing 0,6 \text{ mm} \approx 0,28 \text{ mm}^2$
solid copper wire $\varnothing 0,8 \text{ mm} \approx 0,50 \text{ mm}^2$

Loop resistance:
 $\varnothing 0,6 \text{ mm} \leq 130 \text{ Ohm/km}$
 $\varnothing 0,8 \text{ mm} \leq 72 \text{ Ohm/km}$

Insulation resistance:
min. 100 M Ω × km

Capacitance at 800 Hz:
approx. 100 nF/km

Coupling at 800 Hz:
K1 approx. 300 pF/100m

Attenuation at 800 Hz:
 $\varnothing 0,6 \text{ mm}$ approx. 1,7 dB/km
 $\varnothing 0,8 \text{ mm}$ approx. 1,1 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
one-time bending without tensile force:
2,5 × cable diameter
multiple bending under tensile force
or during transport:
7,5 × cable diameter

Approvals:
acc. to VDE 0815

The CC-telephone cable J-Y(St)Y...Lg-420 is a popular choice for fixed installation of telephone equipment indoors. Synchronized twisted core pair lengths cause minimum coupling values. The static shield enables it to be used where there is a greater need for electromagnetic compatibility (EMC).

Construction

Bare, solid copper wire, PVC core insulation, core colours acc. to VDE 0815 (section 4.4.5), cores twisted in pairs, pairs twisted in layers, copper drain wire, aluminium laminated foil. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey (RAL 7032).

ConCab kabel connects the world

Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
420 06 001	1 × 2 × 0,6	6,9	5,0	30
420 06 002	2 × 2 × 0,6	13,0	5,5	40
420 06 003	3 × 2 × 0,6	18,0	6,3	50
420 06 004	4 × 2 × 0,6	24,0	6,8	60
420 06 005	5 × 2 × 0,6	30,0	7,2	70
420 06 006	6 × 2 × 0,6	35,0	7,5	80
420 06 008	8 × 2 × 0,6	46,0	8,0	90
420 06 010	10 × 2 × 0,6	58,0	9,0	110
420 06 012	12 × 2 × 0,6	71,0	9,5	130
420 06 014	14 × 2 × 0,6	82,0	10,0	145
420 06 016	16 × 2 × 0,6	93,0	10,5	160
420 06 020	20 × 2 × 0,6	116,0	11,0	190
420 06 024	24 × 2 × 0,6	139,0	11,5	220
420 06 030	30 × 2 × 0,6	172,0	13,0	280
420 06 040	40 × 2 × 0,6	229,0	15,0	350
420 06 050	50 × 2 × 0,6	286,0	17,0	430
420 06 060	60 × 2 × 0,6	342,0	18,0	500
420 06 080	80 × 2 × 0,6	455,0	20,5	640
420 06 100	100 × 2 × 0,6	568,0	23,0	850
420 08 001	1 × 2 × 0,8	11,0	6,0	40
420 08 002	2 × 2 × 0,8	21,0	7,0	60
420 08 003	3 × 2 × 0,8	31,0	8,5	80
420 08 004	4 × 2 × 0,8	41,0	9,0	100
420 08 005	5 × 2 × 0,8	52,0	9,5	120
420 08 006	6 × 2 × 0,8	62,0	10,5	140
420 08 008	8 × 2 × 0,8	82,0	11,5	170
420 08 010	10 × 2 × 0,8	102,0	13,0	220
420 08 012	12 × 2 × 0,8	123,0	14,0	250
420 08 014	14 × 2 × 0,8	144,0	14,5	280
420 08 016	16 × 2 × 0,8	164,0	15,5	320
420 08 020	20 × 2 × 0,8	204,0	16,5	380
420 08 024	24 × 2 × 0,8	244,0	19,0	460
420 08 030	30 × 2 × 0,8	304,0	20,0	560
420 08 040	40 × 2 × 0,8	405,0	22,5	710
420 08 050	50 × 2 × 0,8	506,0	25,5	900
420 08 060	60 × 2 × 0,8	606,0	28,0	1050
420 08 080	80 × 2 × 0,8	807,0	31,0	1400
420 08 100	100 × 2 × 0,8	1008,0	32,0	1750

CC-fire alarm cable J-YY...Bd-481

Installation cable, red outer sheath

ConCab Kabel Mainhardt 481 Brandmeldekabel J-YY Bd



The CC-fire alarm cable J-YY...Bd-481 is used for fixed installations preferably for signal transmission in both dry and damp rooms as well as on protected walls outdoors. The cable is marked at regular intervals with the printed word “Brandmeldekabel” (fire alarm cable).

Construction

Bare, solid copper wire, PVC core insulation, core colours and bundle identification acc. to VDE 0815 (section 4.4.8), 4 cores twisted to star quad, foil wrapping. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour red (RAL 3000).

Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
481 06 001	1 × 2 × 0,6	5,7	4,5	26
481 06 002	2 × 2 × 0,6	11,0	4,8	35
481 06 004	4 × 2 × 0,6	23,0	6,8	60
481 06 006	6 × 2 × 0,6	34,0	7,1	75

Technical data

Rated voltage:
250 V

Test voltage:
800 V

Conductor stranding:
solid copper wire $\varnothing 0,6 \text{ mm} \approx 0,28 \text{ mm}^2$

Loop resistance:
 $\leq 130 \text{ Ohm/km}$

Insulation resistance:
min. 100 MOhm × km

Capacitance at 800 Hz:
approx. 100 nF/km

Coupling at 800 Hz:
K1 approx. 300 pF/100m
K9...K12 approx. 100 pF/100m

Attenuation at 800 Hz:
approx. 1,5 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
one-time bending without tensile force:
2,5 × cable diameter
multiple bending under tensile force
or during transport:
7,5 × cable diameter

Approvals:
acc. to VDE 0815

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CC-fire alarm cable J-Y(St)Y...Lg-480

Installation cable with red outer sheath



ConCab Kabel Mainhardt 480 Brandmeldekabel J-Y(St)Y Lg



The CC-fire alarm cable J-Y(St)Y...Lg-480 is used in fixed installations preferably for signal transmission in both dry and damp rooms as well as on protected walls outdoors.

The cable is printed at regular intervals with the word "Brandmeldekabel" (fire alarm cable). The static shield enables it to meet the high requirements on electromagnetic compatibility (EMC).

Construction

Bare, solid copper wire, PVC core insulation, core colours acc. to VDE 0815 (section 4.4.5), core pairs twisted in layers, copper drain wire, aluminium foil. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour red (RAL 3000).

Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
480 06 001	1 × 2 × 0,6	6,9	4,5	30
480 06 002	2 × 2 × 0,6	13,0	5,3	40
480 06 004	4 × 2 × 0,6	24,0	6,6	60
480 06 006	6 × 2 × 0,6	35,0	7,6	80
480 06 010	10 × 2 × 0,6	58,0	9,1	110
480 06 020	20 × 2 × 0,6	116,0	11,0	190
480 08 001	1 × 2 × 0,8	11,0	5,5	40
480 08 002	2 × 2 × 0,8	21,0	6,1	60
480 08 003	3 × 2 × 0,8	31,0	8,0	80
480 08 004	4 × 2 × 0,8	41,0	8,7	100
480 08 005	5 × 2 × 0,8	52,0	9,4	120
480 08 006	6 × 2 × 0,8	62,0	10,1	140
480 08 008	8 × 2 × 0,8	82,0	11,0	170
480 08 010	10 × 2 × 0,8	102,0	13,1	220
480 08 012	12 × 2 × 0,8	123,0	13,5	250
480 08 016	16 × 2 × 0,8	164,0	14,8	300
480 08 020	20 × 2 × 0,8	204,0	15,6	380
480 08 024	24 × 2 × 0,8	244,0	18,4	460
480 08 030	30 × 2 × 0,8	304,0	19,4	522
480 08 040	40 × 2 × 0,8	405,0	20,9	670
480 08 050	50 × 2 × 0,8	506,0	23,7	840
480 08 060	60 × 2 × 0,8	606,0	25,8	980

Technical data

Rated voltage:
250 V

Test voltage:
800 V

Conductor stranding:
solid copper wire \varnothing 0,6 mm \approx 0,28 mm²
solid copper wire \varnothing 0,8 mm \approx 0,50 mm²

Loop resistance:
 \varnothing 0,6 mm \leq 130 Ohm/km
 \varnothing 0,8 mm \leq 72 Ohm/km

Insulation resistance:
min. 100 MOhm \times km

Capacitance at 800 Hz:
approx. 100 nF/km

Coupling at 800 Hz:
K1 approx. 300 pF/100m
K9...K12 approx. 100 pF/100m

Attenuation at 800 Hz:
 \varnothing 0,6 mm approx. 1,7 dB/km
 \varnothing 0,8 mm approx. 1,1 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
one-time bending without tensile force:
2,5 \times cable diameter
multiple bending under tensile force
or during transport:
7,5 \times cable diameter

Approvals:
acc. to VDE 0815



CC-fire alarm cable E30/FE180

JE-H(St)H...Bd-484

Halogen-free with electrical function E30 acc. to DIN 4102

Insulation integrity FE180 acc. to IEC 60331

ConCab Kabel Mainhardt 484 Brandmeldekabel E30/FE180 JE-H(St)H Bd



Technical data

Rated voltage:
150 V

Test voltage:
core/core: 500 V
core/shield: 2000 V

Conductor stranding:
solid copper wire \varnothing 0,8 mm \approx 0,5 mm²

Loop resistance:
 \leq 72 Ohm x km

Insulation resistance:
min. 100 MOhm x km

Capacitance at 800 Hz:
approx. 120 nF/km

Coupling at 800 Hz:
approx. 300 pF/100m

Attenuation at 800 Hz:
 \leq 1,2 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 6 x cable diameter

Approvals:
acc. to VDE 0815
corresponds to DIN 4102, IEC 60331

The CC-fire alarm and emergency cable JE-H(St)H...Bd-484 is used for signal transmission in fire alarms and ELA equipment where there is a particular need for the function and insulation performance requirements of this cable. The halogen-free and flame retardant insulation and sheath mixture conforms to the EC-/DIN norms.

The cable is preferably used for signal transmission in dry and damp rooms as well as on protected walls outdoors.

Construction

Bare, solid copper wire, special halogen-free flame retardant, polymer core insulation, core and bundle identification acc. to VDE 0815 (section 4.4.6), cores twisted in pairs, 4 pairs twisted to bundles, bundles twisted in layers, copper drain wire, aluminium foil, glass fibre tape. Outer sheath halogen-free, flame retardant polymer mixture (acc. to IEC 60332-3).

Colour red (RAL 3000) or orange.
Red cable with print "Brandmeldekabel"
(fire alarm cable).

ConCab kabel connects the world



Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
red				
484 08002 33	2 × 2 × 0,8	25,0	8,0	76
484 08004 33	4 × 2 × 0,8	45,0	10,5	130
484 08008 33	8 × 2 × 0,8	85,0	15,0	232
484 08012 33	12 × 2 × 0,8	126,0	17,0	320
484 08016 33	16 × 2 × 0,8	166,0	20,0	430
484 08020 33	20 × 2 × 0,8	206,0	21,0	510
484 08032 33	32 × 2 × 0,8	327,0	27,0	745
484 08040 33	40 × 2 × 0,8	407,0	29,0	962
484 08052 33	52 × 2 × 0,8	529,0	33,0	1195
orange				
484 08002 38	2 × 2 × 0,8	25,0	8,0	76
484 08004 38	4 × 2 × 0,8	45,0	10,5	130
484 08008 38	8 × 2 × 0,8	85,0	15,0	232
484 08012 38	12 × 2 × 0,8	126,0	17,0	320
484 08016 38	16 × 2 × 0,8	166,0	20,0	430
484 08020 38	20 × 2 × 0,8	206,0	21,0	510
484 08032 38	32 × 2 × 0,8	327,0	27,0	745
484 08040 38	40 × 2 × 0,8	407,0	29,0	962
484 08052 38	52 × 2 × 0,8	529,0	33,0	1195



CC-fire alarm cable E90/FE180

JE-H(St)H...Bd-485

Halogen-free with electrical function E90 acc. to DIN 4102

Insulation integrity FE180 acc. to IEC 60331

ConCab Kabel Mainhardt 485 Brandmeldekabel E90/FE180 JE-H(St)H Bd



The CC-fire alarm and emergency cable JE-H(St)H...Bd-485 is used for signal transmission in fire alarms and ELA equipment where there is particular need for the function and insulation performance requirements of this cable. The halogen-free and flame retardant insulation and sheath mixture conforms to the IEC-/DIN norms. The cable is preferably used for signal transmission in dry and damp rooms as well as on protected walls outdoors.

Construction

Bare, solid copper wire, special halogen-free and flame retardant polymer core insulation, core and bundle identification acc. to VDE 0815 (section 4.4.6), cores twisted in pairs, 4 pairs twisted to bundles, bundles twisted in layers, copper drain wire, aluminium foil, glass fibre tape. Outer sheath halogen-free, flame retardant polymer mixture (acc. to IEC 60332-3). Colour red (RAL 3000) or orange. Red cable with print "Brandmeldekabel" (fire alarm cable).

Technical data

Rated voltage:
150 V

Test voltage:
core/core: 500 V
core/shield: 2000 V

Conductor stranding:
solid copper wire \varnothing 0,8 mm \approx 0,5 mm²

Loop resistance:
 \leq 72 Ohm/km

Insulation resistance:
min. 100 MOhm \times km

Capacitance at 800 Hz:
approx. 120 nF/km

Coupling at 800 Hz:
approx. 300 pF/100m

Attenuation at 800 Hz:
 \leq 1,2 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 6 \times cable diameter

Approvals:
acc. to VDE 0815
corresponds to DIN 4102, IEC 60331



Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
red				
485 08002 93	2 × 2 × 0,8	25,0	8,0	76
485 08004 93	4 × 2 × 0,8	45,0	10,5	130
485 08008 93	8 × 2 × 0,8	85,0	15,0	232
485 08012 93	12 × 2 × 0,8	126,0	17,0	320
485 08016 93	16 × 2 × 0,8	166,0	20,0	430
485 08020 93	20 × 2 × 0,8	206,0	21,0	510
485 08032 93	32 × 2 × 0,8	327,0	27,0	745
485 08040 93	40 × 2 × 0,8	407,0	29,0	962
485 08052 93	52 × 2 × 0,8	529,0	33,0	1195
orange				
485 08002 98	2 × 2 × 0,8	25,0	8,0	76
485 08004 98	4 × 2 × 0,8	45,0	10,5	130
485 08008 98	8 × 2 × 0,8	85,0	15,0	232
485 08012 98	12 × 2 × 0,8	126,0	17,0	320
485 08016 98	16 × 2 × 0,8	166,0	20,0	430
485 08020 98	20 × 2 × 0,8	206,0	21,0	510
485 08032 98	32 × 2 × 0,8	327,0	27,0	745
485 08040 98	40 × 2 × 0,8	407,0	29,0	962
485 08052 98	52 × 2 × 0,8	529,0	33,0	1195



CC-fire alarm cable E90/FE180 JE-H(St)H RH...Bd-483

Halogen-free with electrical function E90 acc. to DIN 4102
Insulation integrity FE180 acc. to IEC 60331, steel wire braiding

ConCab Kabel Mainhardt 483 Brandmeldekabel E90/FE180 JE-H(St)H RH Bd

The CC-fire alarm and emergency cable JE-H(St)H RH...Bd-483 is used for signal transmission in fire alarm and ELA equipment with higher function and insulation performance requirements. The overall steel wire braid gives the cable more protection against mechanical strain. The cable is preferably used for signal transmission in dry and damp rooms as well as on protected walls outdoors.

Construction

Bare, solid copper wire, special halogen-free and flame retardant polymer core insulation, core and bundle identification acc. to VDE 0815 (section 4.4.6), cores twisted in pairs, 4 pairs twisted to bundles, bundles twisted in layers, copper drain wire, aluminium foil. Inner sheath halogen-free, polymer mixture, galvanized steel wire braid. Outer sheath halogen-free, flame retardant polymer mixture (acc. to IEC 60332-3). Colour red (RAL 3000) or orange. Red cable with print "Brandmeldekabel" (fire alarm cable).

Technical data

Rated voltage:
150 V

Test voltage:
core/core: 500 V
core/shield: 2000 V

Conductor stranding:
solid copper wire \varnothing 0,8 mm \approx 0,5 mm²

Loop resistance:
 \leq 72 Ohm/km

Insulation resistance:
min. 100 MOhm \times km

Capacitance at 800 Hz:
approx. 120 nF/km

Coupling at 800 Hz:
approx. 300 pF/100m

Attenuation at 800 Hz:
 \leq 1,2 dB/km

Temperature range:
fixed installation: -30°C to +80°C

Bending radius:
fixed installation: 6 \times cable diameter

Approvals:
acc. to VDE 0815
corresponds to DIN 4102, IEC 60331

Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
red				
483 08002 93	2 × 2 × 0,8	25,0	10,4	152
483 08004 93	4 × 2 × 0,8	45,0	14,7	277
483 08008 93	8 × 2 × 0,8	85,0	21,2	544
483 08012 93	12 × 2 × 0,8	126,0	22,8	600
483 08020 93	20 × 2 × 0,8	206,0	26,9	868
483 08032 93	32 × 2 × 0,8	327,0	34,6	1359
483 08040 93	40 × 2 × 0,8	407,0	40,6	1798
483 08052 93	52 × 2 × 0,8	529,0	43,7	2040
orange				
483 08002 98	2 × 2 × 0,8	25,0	10,4	152
483 08004 98	4 × 2 × 0,8	45,0	14,7	277
483 08008 98	8 × 2 × 0,8	85,0	21,2	544
483 08012 98	12 × 2 × 0,8	126,0	22,8	600
483 08020 98	20 × 2 × 0,8	206,0	26,9	868
483 08032 98	32 × 2 × 0,8	327,0	34,6	1359
483 08040 98	40 × 2 × 0,8	407,0	40,6	1798
483 08052 98	52 × 2 × 0,8	529,0	43,7	2040

CC-telephone cable J-H(St)H...Bd-421

Halogen-free installation cable acc. to VDE 0815



ConCab Kabel Mainhardt 421 6x2x0,8 J-H(St)H Bd

The CC-telephone cable J-H(St)H...Bd-421 is preferably used for the installation of fixed telephone equipment indoors. The halogen-free and flame retardant insulation and sheath mixture provide increased protection for humans and materials in the event of fire. Synchronized twisted core pair lengths cause minimum coupling values. The static shield enables it to be used where there is a greater need for electromagnetic compatibility (EMC).

Construction

Bare, solid copper wire, halogen-free polymer mixture core insulation, core and bundle identification acc. to VDE 0815 (section 4.4.8), 4 cores twisted to star quad, 4 in a bundle, bundles twisted in layers, copper drain wire, aluminium foil. Outer sheath halogen-free, flame retardant polymer mixture (acc. to IEC 60332-3). Colour grey (RAL 7032).

Technical data

Rated voltage:
250 V

Test voltage:
800 V

Conductor stranding:
solid copper wire $\varnothing 0,6 \text{ mm} \approx 0,28 \text{ mm}^2$
solid copper wire $\varnothing 0,8 \text{ mm} \approx 0,5 \text{ mm}^2$

Loop resistance:
 $\varnothing 0,6 \text{ mm} \leq 130 \text{ Ohm/km}$
 $\varnothing 0,8 \text{ mm} \leq 72 \text{ Ohm/km}$

Insulation resistance:
min. 100 MOhm \times km

Capacitance at 800 Hz:
approx. 110 nF/km

Coupling at 800 Hz:
K1 approx. 300 pF/100m
K9...K12 approx. 100 pF/100m

Attenuation at 800 Hz:
 $\varnothing 0,6 \text{ mm}$: approx. 1,7 dB/km
 $\varnothing 0,8 \text{ mm}$: approx. 1,1 dB/km

Temperature range:
fixed installation: -30°C to $+70^\circ\text{C}$

Bending radius:
fixed installation: $6 \times$ cable diameter

Approvals:
acc. to VDE 0815

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Part-No.	No. of cores + diameter mm	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
421 06002 05	2 × 2 × 0,6	14,0	7,5	60
421 06004 05	4 × 2 × 0,6	25,0	9,0	100
421 06006 05	6 × 2 × 0,6	37,0	10,0	110
421 06010 05	10 × 2 × 0,6	59,0	12,0	160
421 06020 05	20 × 2 × 0,6	126,0	15,0	270
421 06030 05	30 × 2 × 0,6	172,0	17,5	370
421 06040 05	40 × 2 × 0,6	229,0	20,0	450
421 06050 05	50 × 2 × 0,6	286,0	21,5	550
421 06060 05	60 × 2 × 0,6	342,0	23,5	660
421 06080 05	80 × 2 × 0,6	455,0	26,5	820
421 06100 05	100 × 2 × 0,6	568,0	29,5	1000
421 08002 05	2 × 2 × 0,8	25,0	8,5	80
421 08004 05	4 × 2 × 0,8	45,0	10,5	140
421 08006 05	6 × 2 × 0,8	65,0	12,5	170
421 08010 05	10 × 2 × 0,8	106,0	15,0	250
421 08020 05	20 × 2 × 0,8	206,0	19,0	430
421 08030 05	30 × 2 × 0,8	307,0	22,0	600
421 08040 05	40 × 2 × 0,8	407,0	25,5	770
421 08050 05	50 × 2 × 0,8	508,0	27,5	940
421 08060 05	60 × 2 × 0,8	608,0	29,5	1120
421 08080 05	80 × 2 × 0,8	809,0	33,5	1440
421 08100 05	100 × 2 × 0,8	1010,0	37,5	1800

CC-fire alarm cable J-H(St)H...Bd-482



Halogen-free installation cable, red outer sheath, shielded

ConCab Kabel Mainhardt 482 20x2x0,8 J-H(St)H Bd Brandmeldekabel



The CC-fire alarm cable J-H(St)H...Bd-482 is used for fixed installation preferably for signal transmission in dry and damp rooms as well as on protected walls outdoors. The cable is printed at regular intervals with "Brandmeldekabel" (fire alarm cable). The static shield enables it to meet the requirements of electromagnetic compatibility (EMC). The halogen-free and flame retardant insulation and sheath mixture provide a better protection for humans and materials in the event of fire.

Construction

Bare, solid copper wire, halogen-free polymer mixture core insulation, core and bundle identification acc. to VDE 0815 (section 4.4.8), 4 cores twisted to star quad, 4 in a bundle, bundles twisted in layers, copper drain wire, aluminium foil. Outer sheath halogen-free, flame retardant polymer mixture (acc. to IEC 60332-3). Colour red (RAL 3000).

Technical data

Rated voltage:
250 V

Test voltage:
800 V

Conductor stranding:
solid copper wire $\varnothing 0,8 \text{ mm} \approx 0,5 \text{ mm}^2$

Loop resistance:
 $\varnothing 0,8 \text{ mm} \leq 72 \text{ Ohm/km}$

Insulation resistance:
min. 100 MOhm \times km

Capacity at 800 Hz:
approx. 110 nF/km

Coupling at 800 Hz:
K1 approx. 300 pF/100m
K9...K12 approx. 100 pF/100m

Attenuation at 800 Hz:
approx. 1,1 dB/km

Temperature range:
fixed installation: -30°C to $+70^\circ\text{C}$

Bending radius:
fixed installation: $6 \times$ cable diameter

Approvals:
acc. to VDE 0815

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Part-No.	No. of cores + diameter	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
482 08002 03	2 × 2 × 0,8	25,0	8,5	80
482 08004 03	4 × 2 × 0,8	45,0	10,5	140
482 08006 03	6 × 2 × 0,8	65,0	12,0	170
482 08010 03	10 × 2 × 0,8	106,0	15,0	250
482 08020 03	20 × 2 × 0,8	206,0	19,0	430
482 08030 03	30 × 2 × 0,8	307,0	22,0	600
482 08040 03	40 × 2 × 0,8	407,0	25,5	770
482 08050 03	50 × 2 × 0,8	508,0	27,5	940
482 08060 03	60 × 2 × 0,8	608,0	29,5	1120
482 08080 03	80 × 2 × 0,8	809,0	33,5	1440
482 08100 03	100 × 2 × 0,8	1010,0	37,5	1800





CC-telephone outdoor cable A-2Y(L)2Y...St III Bd-440



The CC-telephone outdoor cable A-2Y(L)2Y...St III Bd-440 is intended to be used as a location connection cable for local networks and for private branch equipment as well as for cabling in the ground, in cable channels and pipes. It is not permitted for power application. The CC-telephone outdoor cable fulfils the stipulations of Deutsche Telekom AG and VDE 0816.

Construction

Bare solid copper wire, PE core insulation, core identification acc. to VDE 0816, 4 cores twisted to star quad, 5 quads twisted in a main bundle, main bundle formed to cable core centre, paper tape bandage, laminated sheath of aluminium coated plastic tape, PE outer sheath. The cable is marked with metre marks and a sequence of telephone receivers painted in white abrasion resistant paint.
Colour black.

Technical data

Conductor diameter (mm):	0,6	0,8
Cross-section (mm²):	0,28	0,5
Rated voltage (V):	225	225
Test voltage (V) core/core:	500	500
core/shield:	2000	2000
Attenuation at 800 Hz (dB/km):	1,0	0,8
Operating capacity at 800 Hz (nF/km):	max. 52	max. 55
Loop resistance (Ohm/km):	max. 130	max. 73,2
Coupling k1(pF/300m):	98% < 400	
Coupling k9-12(pF/300m):	98% < 100	
Insulation resistance:	min. 5 G Ohm × km	
Temperature range:	≤ 70°C	
Bending radius:	10 × cable diameter	



Part-No.	No. of core pairs	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
A-2Y(L)2Y... × 2 × 0,6 St III Bd				
440 06 002	2	11,0	10,5	80
440 06 004	4	23,0	11,0	125
440 06 006	6	34,0	11,5	130
440 06 010	10	57,0	13,0	165
440 06 020	20	113,0	16,0	265
440 06 030	30	170,0	18,0	355
440 06 040	40	226,0	19,5	440
440 06 050	50	283,0	21,0	525
440 06 070	70	396,0	23,5	705
440 06 100	100	565,0	27,0	950
440 06 150	150	848,0	32,5	1345
440 06 200	200	1131,0	36,5	1755
440 06 250	250	1414,0	39,5	2140
440 06 300	300	1696,0	42,5	2525
440 06 350	350	1979,0	47,5	2950
440 06 400	400	2262,0	50,5	3340
440 06 500	500	2827,0	53,5	4090
A-2Y(L)2Y... × 2 × 0,8 St III Bd				
440 08 002	2	20,0	12,5	100
440 08 004	4	40,0	13,0	160
440 08 006	6	60,0	13,5	175
440 08 010	10	101,0	15,0	235
440 08 014	14	141,0	16,5	296
440 08 020	20	201,0	18,0	390
440 08 030	30	302,0	21,0	540
440 08 040	40	402,0	23,5	680
440 08 050	50	503,0	25,0	835
440 08 060	60	603,0	27,0	965
440 08 070	70	702,0	28,5	1110
440 08 080	80	804,0	29,5	1250
440 08 100	100	1005,0	32,5	1515
440 08 150	150	1508,0	40,0	2205
440 08 200	200	2010,0	47,5	2920
440 08 250	250	2514,0	51,5	3580
440 08 300	300	3016,0	54,5	4230
440 08 350	350	3520,0	58,5	4950
440 08 400	400	4025,0	63,0	5570
440 08 500	500	5027,0	69,0	6965
440 08 600	600	6035,0	74,0	8260



CC-telephone outdoor cable A-2YF(L)2Y...St III Bd-450 with petrolat jelly filling



The CC-telephone outdoor cable A-2YF(L)2Y...St III Bd-450 can be used as a location connection cable for local networks and for private branch equipment as well as for cabling in the ground, in cable channels and pipes. It is not permitted for power application. The CC-telephone outdoor cable fulfils the requirements of Deutsche Telekom AG and VDE 0816.

Construction

Bare, solid copper wire, PE core insulation, core identification acc. to VDE 0816 (see appendix), 4 cores twisted to start quad, 5 quads twisted in a main bundle, main bundles formed to cable core centre. The hollow space of the cable is filled with petrolat jelly. Paper tape bandage, laminated sheath of aluminium coated plastic tape, PE outer sheath. The cable is marked with metre marks and a sequence of telephone receivers painted in white abrasion resistant paint. Colour black .

Technical data

Conductor diameter (mm):	0,6	0,8
Cross-section(mm²):	0,28	0,5
Rated voltage (V):	225	225
Test voltage (V) core/core:	500	500
core/shield:	2000	2000
Attenuation at 800 Hz (dB/km):	1,0	0,8
Operating capacity at 800 Hz (nF/km):	max. 52	max. 55
Loop resistance (Ohm/km):	max. 130	max. 73,2
Coupling k1(pF/300m):	98% < 400	
Coupling k9-12(pF/300m):	98% < 100	
Insulation resistance:	min. 5 G Ohm × km	
Temperature range:	≤ 70°C	
Bending radius:	10 × cable diameter	



Part-No.	No. of core pairs	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
A-2YF(L)2Y... × 2 × 0,6 St III Bd				
450 06 002	2	11,0	7,5	82
450 06 004	4	23,0	9,2	145
450 06 006	6	34,0	12,0	140
450 06 010	10	57,0	14,0	190
450 06 020	20	113,0	17,5	310
450 06 030	30	170,0	20,0	430
450 06 040	40	226,0	22,5	545
450 06 050	50	283,0	24,5	660
450 06 070	70	396,0	25,5	895
450 06 100	100	565,0	31,5	1225
450 06 150	150	848,0	38,0	1780
450 06 200	200	1131,0	43,5	2315
450 06 250	250	1414,0	48,5	2895
450 06 300	300	1696,0	50,0	3480
450 06 350	350	1979,0	55,5	3980
450 06 400	400	2262,0	61,0	4485
450 06 500	500	2827,0	66,5	5470
A-2YF(L)2Y... × 2 × 0,8 St III Bd				
450 08 002	2	20,0	9,0	110
450 08 004	4	40,0	10,5	190
450 08 006	6	60,0	14,0	195
450 08 010	10	101,0	15,5	275
450 08 020	20	201,0	19,5	475
450 08 030	30	302,0	22,5	665
450 08 040	40	402,0	25,5	860
450 08 050	50	503,0	27,5	1050
450 08 070	70	704,0	31,5	1420
450 08 100	100	1005,0	36,5	1985
450 08 150	150	1508,0	45,5	2935
450 08 200	200	2010,0	51,5	3750
450 08 250	250	2513,0	58,0	4650
450 08 300	300	3016,0	62,0	5550
450 08 350	350	3520,0	68,5	6755
450 08 400	400	4025,0	74,0	7640
450 08 500	500	5027,0	82,5	9550

Thermo- and compensating cables



CC-compensating cable-800

Thermo element connection to temperature measurement



Technical data

Conductor stranding:
solid/multi strand wires

0,22 mm ² :	7 × 0,20 mm
0,5 mm ² :	16 × 0,20 mm
	or solid wire 1 × 0,8 mm
0,75 mm ² :	24 × 0,20 mm
1,5 mm ² :	48 × 0,20 mm
	or solid wire 1 × 1,38 mm

Insulation resistance:
min. 10 MOhm × km

Temperature range:

fixed installation:	Y	-20°C to +80°C
	Yw	-10°C to +105°C
	2G	-20°C to +200°C
flexible application:	Y	-5°C to +70°C
	Yw	+5°C to +90°C
	2G	-20°C to +180°C

The CC-compensating cable-800 is used to transfer temperature measurement with thermo elements in order to connect the route segment between the temperature indicator and the measuring point without any measuring mistake. The compensating cable (AGL) consists of a pair of conductors that produce the same thermal tension within the temperature range of 0°C to +200°C as the thermal pair.

Construction

Conductor of thermo element conductors or alternative materials, core and sheath insulation, shielding, etc. see parts table, 4 cores with paired numbering.

Type of elements:

iron/constantan,
nickel-chrome/nickel,
platinum-rhodium/platinum.

Bending radius:

7,5 × cable diameter (single pair)
15 × cable diameter (stranded conductor)
20 × cable diameter (with metal braiding)

Approvals:

DIN 43710 to 43714 (old), DIN 43722,
DIN IEC 584

Thermo pair		Colour identification DIN IEC 584				DIN 43710 (old)			
+pole	-pole	CC-Nr.	ID letter	+pole and sheath	-pole	CC-Nr.	ID letter	+pole	-pole and sheath
iron FE	constantan CuNi	4	J	black	white	1	L	red	blue
nickel-chrome NiCr	nickel Ni	5	K	green	white	2	–	red	green
platinum-rhodium PtRh	platinum Pt	6	R/S	orange	white	3	–	red	white
nickel-chrome NiCr	constantan	7	EX	violet	white				
platinum-rhodium Pt30Rh	platinum rhodium Pt6Rh	9	BC	grey	white				

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CC-compensating cable-800

Thermo element connection to temperature measurement

Part-No.	Type	Core insulation	Shield and outer sheath	Dimension approx. mm	Weight kg/km
Single pair compensating cable					
800 0 15 01 0 .	AGL-2 × (LiY 1,5)	PVC	— (twisted in pairs)	5,5	40
800 0 15 01 1 .	AGL-2 × (Li2G 1,5)	silicone	— (twisted in pairs)	5,5	40
800 0 02 01 2 .	AGL-LiYY 2 × 0,22	PVC	PVC (round)	3,8 Ø	21
800 0 05 01 2 .	AGL-LiYY 2 × 0,5	PVC	PVC (round)	5,5 Ø	44
800 0 07 01 2 .	AGL-LiYY 2 × 0,75	PVC	PVC (round)	6,1 Ø	54
800 0 15 01 2 .	AGL-LiYY 2 × 1,5	PVC	PVC (round)	7,1 Ø	76
800 0 02 01 3 .	AGL-Li2G2G 2 × 0,22	silicone	silicone (round)	4,0 Ø	23
800 0 05 01 3 .	AGL-Li2G2G 2 × 0,5	silicone	silicone (round)	5,6 Ø	42
800 0 07 01 3 .	AGL-Li2G2G 2 × 0,75	silicone	silicone (round)	6,2 Ø	53
800 0 15 01 3 .	AGL-Li2G2G 2 × 1,5	silicone	silicone (round)	7,1 Ø	75
800 0 02 01 4 .	AGL-LiYCY 2 × 0,22	PVC	tinned Cu-shielded, PVC	5,0 Ø	32
800 0 15 01 4 .	AGL-LiYCY 2 × 1,5	PVC	tinned Cu-shielded, PVC (round)	8,0 Ø	92
800 0 02 01 5 .	AGL-Li2GC2G 2 × 0,22	silicone	tinned Cu-shielded, silicone	5,9 Ø	50
800 0 15 01 5 .	AGL-Li2GC2G 2 × 1,5	silicone	tinned Cu-shielded, silicone (round)	8,3 Ø	117
800 0 02 01 6 .	AGL-Li2G2G-GL 2 × 0,22	silicone	silicone, glass-fibre braiding (round)	4,6 Ø	24
800 0 15 01 7 .	AGL-Li2G-GL 2 × 1,5	silicone	glass-fibre braiding (oval)	3,3 × 6,0	58
800 0 15 01 8 .	AGL-Li2G2G 2 × 1,5	silicone	silicone (oval)	4,3 × 7,0	60
800 0 15 01 9 .	AGL-Li2G2GS 2 × 1,5	silicone	silicone, galvanized steel wire braiding (oval)	5,2 × 8,0	88
800 0 15 01 A .	AGL-Li2G(St)2G 2 × 1,5	silicone	laminated foil, silicone (round)	8,0 Ø	85
800 0 15 01 B .	AGL-LiY(St)Y 2 × 1,5	PVC	laminated foil, PVC (round),	8,0 Ø	86
800 0 15 01 C .	AGL-LiYY 2 × 1,5	PVC	PVC (oval)	4,3 × 7,0	61
800 0 15 01 D .	AGL-LiYYSY 2 × 1,5	PVC	PVC, galvanized steel wire braiding, PVC (round)	9,8 Ø	148
800 0 15 01 E .	AGL-Li2G-GLS 2 × 1,5	silicone	glass-fibre braiding, galvanized steel wire braiding (oval)	4,1 × 6,8	75
800 0 02 01 F .	AGL-Li6Y2G 2 × 0,22	FEP	silicone	4,5Ø	20
800 0 07 01 G .	AGL-Li6Y(St)6Y 2 × 0,75	FEP	FEP	4,2Ø	42
800 0 15 01 H .	AGL-LiGL-GL 2 × 1,5	glass-fibre	glass-fibre braiding	3,5Ø	70

Upon request we can offer above mentioned types also as multicore compensating cable

Part-No.	Type	Thermo pair	Core insulation	Shield and outer sheath	Outer diameter approx. mm	Weight kg/km
Non-shielded multi-pair compensating cables						
800 0 15 02 2 .	AGL-LiYY 4 ×1,5	2	PVC	PVC	8,0	118
800 0 15 03 2 .	AGL-LiYY 6 ×1,5	3	PVC	PVC	10,0	178
800 0 15 04 2 .	AGL-LiYY 8 ×1,5	4	PVC	PVC	11,4	239
800 0 15 05 2 .	AGL-LiYY 10 ×1,5	5	PVC	PVC	12,9	285
800 0 15 06 2 .	AGL-LiYY 12 ×1,5	6	PVC	PVC	13,4	312
800 0 15 08 2 .	AGL-LiYY 16 ×1,5	8	PVC	PVC	15,2	423
800 0 15 10 2 .	AGL-LiYY 20 ×1,5	10	PVC	PVC	16,5	510
800 0 15 12 2 .	AGL-LiYY 24 ×1,5	12	PVC	PVC	19,2	575
800 0 15 16 2 .	AGL-LiYY 32 ×1,5	16	PVC	PVC	21,0	778
800 0 15 20 2 .	AGL-LiYY 40 ×1,5	20	PVC	PVC	24,2	1080
Shielded multi-pair compensating cables						
800 0 15 02 D .	AGL-LiYYSY 4 ×1,5	2	PVC	all types:	11,0	200
800 0 15 03 D .	AGL-LiYYSY 6 ×1,5	3	PVC	PVC galvanized steel	13,5	295
800 0 15 04 D .	AGL-LiYYSY 8 ×1,5	4	PVC	wire braiding	14,1	405
800 0 15 06 D .	AGL-LiYYSY 12 ×1,5	6	PVC	PVC	17,5	505
800 0 15 08 D .	AGL-LiYYSY 16 ×1,5	8	PVC		19,0	600
800 0 15 12 D .	AGL-LiYYSY 24 ×1,5	12	PVC		24,0	900
800 0 15 16 D .	AGL-LiYYSY 32 ×1,5	16	PVC		26,2	1190
800 0 15 20 D .	AGL-LiYYSY 40 ×1,5	20	PVC		29,0	1405

In addition we can supply compensating cables according to your specifications in all well-known foreign norms providing the order meets the minimum quantity.

Part-No. 800-

Conductor stranding _____
 0 stranded
 1 solid

Cross-section _____
 02 0,22 mm²
 05 0,5 mm² (0,8 mm)
 07 0,75 mm²
 15 1,5 mm² (1,38 mm)

No. of pairs _____

Cable type _____
 Core insulation, shield, outer sheath please refer to parts table

Thermo pair/colour identification _____
 Refer to CC-No. in the table on page 335

Rubber and welding cables



CC-flexible rubber cable

H05RR-F-710

H05RN-F-720

H07RN-F/A07RN-F-730

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 730 5x1,5 H07RN-F CE

H05RR-F:

Light flexible rubber cable to be used with light working appliances and manual devices for light mechanical tasks in dry and damp rooms.

H05RN-F:

Intermediate flexible rubber cable to be used with light working appliances and manual devices for light mechanical tasks in dry and damp rooms as well as outdoors and in water for industrial purposes.

H07RN-F/A07RN-F:

Heavy flexible rubber cable to be used with heavy working appliances and manual devices. It is ideal for dry and damp rooms as well as outdoors and in water for industrial purposes.

Construction

H05RR-F:

Fine strands of bare copper wire, core insulation out of rubber mixture EI 4, core colours acc. to VDE 0293 or 0293 308, 3 cores or more with green/yellow protective conductor. Cores twisted together, outer sheath out of rubber mixture EM3. Colour black.

H05RN-F:

Bare, fine strands of copper wire, core insulation out of rubber mixture EI 4, core colours acc. to VDE 0293 or 0293 308, 3 cores or more with green/yellow protective conductor, cores twisted together. Outer sheath out of rubber mixture EM 2 (Neoprene), flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50262-2-1 and IEC 60332-1). Colour black.

H07RN-F/A07RN-F:

Bare, fine strands of copper wire, core insulation out of rubber mixture EI 4, core colours acc. to VDE 0293 or 0293 308, 3 cores or more with green/yellow protective conductor. Cores twisted together. Outer sheath out of rubber mixture EM 2 (Neoprene), flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Approvals:

acc. to VDE 0282, part 4, HD 22.4 S3
A07RN-F (CENELEC approved national type).

	H05RR-F	H05RN-F	H07RN-F A07RN-F
Rated voltage:	300/500 V	300/500 V	450/750 V
Test voltage:	2000 V	2000 V	2500 V
Conductor stranding:	Fine copper strands acc. to VDE 0295, class 5		
Core insulation:	Rubber mixture EI 4		
Outer sheath:	Rubber mixture EM 3	Rubber mixture EM 2	Rubber mixture EM 2
Insulation resistance:	min. 10 MOhm × km		
Temperature range:	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Bending radius			
Fixed installation:	3 × cables Ø	3 × cables Ø	3 × cables Ø
Flexible application:	6 × cables Ø	6 × cables Ø	6 × cables Ø
Approvals:	acc. to VDE 0282, part 4, HD 22.4 S3		

CC-flexible rubber cable

H05RR-F-710

H05RN-F-720

H07RN-F/A07RN-F-730

Conforms to the EC low voltage guideline 73/23/EEC CE

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
H05 RR-F					H07 RN-F/A07 RN-F				
710 0007 002	2 X 0,75	14,4	5,7 - 7,4	67	730 0010 002	2 X 1,0	19,0	7,7 - 10,0	89
710 0007 003	3 G 0,75	21,6	6,5 - 8,8	77	730 0010 003	3 G 1,0	29,0	8,3 - 10,7	111
710 0007 004	4 G 0,75	29,0	6,8 - 8,8	98	730 0010 004	4 G 1,0	38,0	9,2 - 11,4	146
710 0007 005	5 G 0,75	36,0	7,6 - 9,9	110	730 0010 005	5 G 1,0	48,0	10,2 - 13,1	173
710 0010 002	2 X 1,0	19,0	6,1 - 8,0	75	730 0015 001	1 X 1,5	14,4	5,7 - 7,1	59
710 0010 003	3 G 1,0	29,0	7,5 - 8,5	93	730 0015 002	2 X 1,5	29,0	8,5 - 11,0	128
710 0010 004	4 G 1,0	38,0	7,1 - 9,3	115	730 0015 003	3 G 1,5	43,0	9,2 - 11,9	157
710 0010 005	5 G 1,0	48,0	8,0 - 10,3	135	740 0015 003	3 X 1,5*	43,0	9,2 - 11,9	157
710 0015 002	2 X 1,5	29,0	7,6 - 9,8	114	730 0015 004	4 G 1,5	58,0	10,2 - 13,1	192
710 0015 003	3 G 1,5	43,0	8,0 - 10,4	140	740 0015 004	4 X 1,5*	58,0	10,2 - 13,1	192
710 0015 004	4 G 1,5	58,0	9,0 - 11,6	175	730 0015 005	5 G 1,5	72,0	11,2 - 14,4	238
710 0015 005	5 G 1,5	72,0	9,8 - 12,7	215	730 0015 007	7 G 1,5	101,0	14,0 - 17,0	371
710 0025 002	2 X 2,5	48,0	9,0 - 11,6	161	730 0015 012	12 G 1,5	173,0	17,6 - 22,4	516
710 0025 003	3 G 2,5	72,0	9,6 - 12,4	198	730 0015 019	19 G 1,5	274,0	21,5 - 24,0	788
710 0025 004	4 G 2,5	96,0	10,7 - 13,8	250	730 0015 024	24 G 1,5	346,0	24,3 - 30,7	950
710 0025 005	5 G 2,5	120,0	11,9 - 15,3	310	730 0015 027	27 G 1,5	385,0	25,5 - 31,5	1077
H05 RN-F					730 0015 037	37 G 1,5	530,0	27,8 - 35,2	1395
720 0007 002	2 X 0,75	14,4	5,7 - 7,4	80	730 0025 001	1 X 2,5	24,0	6,3 - 7,9	72
720 0007 003	3 G 0,75	21,6	6,2 - 8,1	95	730 0025 002	2 X 2,5	48,0	10,2 - 13,1	177
720 0010 002	2 X 1,0	19,0	6,1 - 8,0	95	730 0025 003	3 G 2,5	72,0	10,9 - 14,0	217
720 0010 003	3 G 1,0	29,0	6,5 - 8,5	115	740 0025 003	3 X 2,5*	72,0	10,9 - 14,0	217
					730 0025 004	4 G 2,5	96,0	12,1 - 15,5	269
					740 0025 004	4 X 2,5*	96,0	12,1 - 15,5	269
					730 0025 005	5 G 2,5	120,0	13,3 - 17,0	329
					730 0025 007	7 G 2,5	168,0	16,0 - 19,0	499
					730 0025 012	12 G 2,5	288,0	20,6 - 26,2	719
					730 0025 019	19 G 2,5	456,0	24,4 - 30,9	1068
					730 0025 024	24 G 2,5	576,0	28,8 - 36,4	1350
					730 0025 027	27 G 2,5	638,0	30,0 - 33,5	1521
					730 0040 001	1 X 4	38,0	7,2 - 9,0	99
					730 0040 002	2 X 4	77,0	11,8 - 15,1	249
					730 0040 003	3 G 4	115,0	12,7 - 16,2	298
					740 0040 003	3 X 4*	115,0	12,7 - 16,2	298
					730 0040 004	4 G 4	154,0	14,0 - 17,9	373
					730 0040 005	5 G 4	192,0	15,6 - 19,9	466

* A07RN-F

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
H07 RN-F/A07 RN-F					730 0500 001	1 X 50	480,0	16,5 - 20,6	719
730 0060 001	1 X 6	58,0	7,9 - 9,8	130	730 0500 003	3 G 50	1440,0	34,1 - 42,9	2580
730 0060 002	2 X 6	115,0	13,1 - 16,8	327	740 0500 003	3 X 50*	1440,0	34,1 - 42,9	2580
730 0060 003	3 G 6	173,0	14,1 - 18,0	407	730 0500 004	4 G 50	1920,0	37,7 - 47,5	3284
740 0060 003	3 X 6*	173,0	14,1 - 18,0	407	740 0500 004	4 X 50*	1920,0	37,0 - 47,5	3284
730 0060 004	4 G 6	230,0	15,7 - 20,0	514	730 0500 005	5 G 50	2400,0	42,0 - 52,0	4025
740 0060 004	4 X 6*	230,0	15,7 - 20,0	514					
730 0060 005	5 G 6	288,0	17,5 - 22,2	640	730 0700 001	1 X 70	672,0	18,6 - 23,3	947
					730 0700 003	3 G 70	2016,0	38,4 - 48,3	3386
730 0100 001	1 X 10	96,0	9,5 - 11,9	200	740 0700 003	3 X 70*	2016,0	38,4 - 48,3	3386
730 0100 002	2 X 10	192,0	17,7 - 22,6	586	730 0700 004	4 G 70	2688,0	42,7 - 54,0	4331
730 0100 003	3 G 10	288,0	19,1 - 24,2	716	730 0700 005	5 G 70	3360,0	47,0 - 58,5	5340
740 0100 003	3 X 10*	288,0	19,1 - 24,2	716					
730 0100 004	4 G 10	384,0	20,9 - 26,5	898	730 0950 001	1 X 95	912,0	20,8 - 26,0	1230
740 0100 004	4 X 10*	384,0	20,9 - 26,5	898	730 0950 003	3 G 95	2736,0	43,3 - 54,0	4433
730 0100 005	5 G 10	480,0	22,9 - 29,1	1107	740 0950 003	3 X 95*	2736,0	43,3 - 54,0	4433
					730 0950 004	4 G 95	3648,0	48,4 - 61,0	5712
730 0160 001	1 X 16	154,0	10,8 - 13,4	278					
730 0160 002	2 X 16	308,0	20,2 - 25,7	810	730 1200 001	1 X 120	1152,0	22,8 - 28,6	1520
730 0160 003	3 G 16	461,0	21,8 - 27,6	1008	730 1200 003	3 G 120	3456,0	47,4 - 60,0	5182
740 0160 003	3 X 16*	461,0	21,8 - 27,6	1008	730 1200 004	4 G 120	4608,0	53,0 - 66,0	6828
730 0160 004	4 G 16	614,0	23,8 - 30,1	1253					
740 0160 004	4 X 16*	614,0	23,8 - 30,1	1253	730 1500 001	1 X 150	1440,0	25,2 - 31,4	1887
730 0160 005	5 G 16	768,0	26,4 - 33,3	1564	730 1500 004	4 G 150	5760,0	58,0 - 73,0	8319
730 0250 001	1 X 25	240,0	12,7 - 15,8	396	730 1850 001	1 X 185	1776,0	27,6 - 34,4	2274
730 0250 003	3 G 25	720,0	26,1 - 33,0	1451	730 1850 004	4 G 185	7104,0	64,0 - 80,0	10062
740 0250 003	3 X 25*	720,0	26,1 - 33,0	1451					
730 0250 004	4 G 25	960,0	28,9 - 36,6	1846	730 2400 001	1 X 240	2304,0	30,6 - 38,3	2955
740 0250 004	4 X 25*	960,0	28,9 - 36,6	1846					
730 0250 005	5 G 25	1200,0	32,0 - 40,4	2291	730 3000 001	1 X 300	2880,0	33,5 - 41,9	3585
730 0350 001	1 X 35	336,0	14,3 - 17,9	520					
730 0350 003	3 G 35	1008,0	29,3 - 37,1	1901					
740 0350 003	3 X 35*	1008,0	20,3 - 37,1	1901					
730 0350 004	4 G 35	1344,0	32,5 - 41,1	2393					
740 0350 004	4 X 35*	1344,0	32,5 - 41,1	2393					
730 0350 005	5 G 35	1680,0	37,0 - 45,0	2895					
740 0350 005	5 X 35*	1680,0	37,0 - 45,0	2895					

* A07RN-F

CC-rubber cable NSGAFÖU-350

Short circuit-proof cable 1.8/3kV acc. to VDE 0250
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 350 NSGAFÖU CE

The CC-rubber cable NSGAFÖU-350 is particularly suited as a short circuit-proof cable in rail and bus vehicles as well as in dry rooms. Cables with a rated voltage of at least 1,7/3 kV are considered to be short circuit-proof and short to earth-proof in switching equipment and distributors up to 1000 V.

Construction

Tinned fine strands of copper wire, rubber based insulation. Outer sheath on rubber basis, oil resistant and flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
1,8/3 kV

Test voltage:
6000 V

Conductor stranding:
Fine copper strands
acc. to VDE 0295, class 5

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -25°C to +80°C

Bending radius:
fixed installation: 6 × cable diameter
flexible application: 10 × cable diameter

Approvals:
acc. to VDE 0250, part 602


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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
350 0015	1,5	14,4	7,0	59
350 0025	2,5	24,0	7,5	73
350 0040	4	38,4	9,0	91
350 0060	6	57,6	9,5	124
350 0100	10	96,0	11,0	190
350 0160	16	153,6	13,0	258
350 0250	25	240,0	15,0	402
350 0350	35	336,0	16,5	507
350 0500	50	480,0	18,0	638
350 0700	70	672,0	20,5	875
350 0950	95	912,0	24,0	1170
350 1200	120	1155,0	26,0	1487
350 1500	150	1440,0	28,0	1700
350 1850	185	1776,0	31,0	2190
350 2400	240	2305,0	34,5	1805

CC-rubber cable NSHXAFÖ-358

Halogen-free short circuit-proof cable 1.8/3kV
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 358 NSHXAFÖ 1,8/3 kV CE

The halogen-free CC-rubber cable NSHXAFÖ-358 is particularly suited as a short circuit-proof cable in rail and bus vehicles as well as in dry rooms. Cables with a rated voltage of at least 1,7/3 kV are considered to be short circuit-proof and short to earth-proof in switching equipment and distributors up to 1000 V.

Construction

Bare or tinned fine strands of copper wire, core insulation halogen-free polymere mixture. Outer sheath halogen-free polymere mixture, oil resistant and flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
1,8/3 kV

Test voltage:
6000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Temperature range:
fixed installation: -25°C to +100°C
flexible application: -5°C to +100°C

Bending radius:
fixed installation: 6 × cable diameter
flexible application: 10 × cable diameter

Approvals:
acc. to VDE 0250, part 606 (design)

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
Cu-bare				
358 0015 0	1,5	14,4	7,0	65
358 0025 0	2,5	24,0	7,5	75
358 0040 0	4,0	38,4	9,0	95
358 0060 0	6	57,6	9,5	115
358 0100 0	10	96,0	11,0	185
358 0160 0	16	153,6	13,0	260
358 0250 0	25	240,0	15,0	395
358 0350 0	35	336,0	16,5	475
358 0500 0	50	480,0	18,0	630
358 0700 0	70	672,0	20,5	890
358 0950 0	95	912,0	24,0	1190
358 1200 0	120	1155,0	26,0	1440
358 1500 0	150	1440,0	28,0	1765
358 1850 0	185	1776,0	31,0	2160
358 2400 0	240	2305,0	34,5	2725
358 3000 0	300	2890,0	38,0	3470
Cu-tinned				
358 0015 1	1,5	14,4	7,0	65
358 0025 1	2,5	24,0	7,5	75
358 0040 1	4	38,4	9,0	95
358 0060 1	6	57,6	9,5	115
358 0100 1	10	96,0	11,0	185
358 0160 1	16	153,6	13,0	260
358 0250 1	25	240,0	15,0	395
358 0350 1	35	336,0	16,5	475
358 0500 1	50	480,0	18,0	630
358 0700 1	70	672,0	20,5	890
358 0950 1	95	912,0	24,0	1190
358 1200 1	120	1155,0	26,0	1440
358 1500 1	150	1440,0	28,0	1765
358 1850 1	185	1776,0	31,0	2160
358 2400 1	240	2305,0	34,5	2725
358 3000 1	300	2890,0	38,0	3470

CC-welding cable

H01N2-D-355

H01N2-E-355

Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 355 H01N2-E CE

The CC-welding cable H01N2-D-355 resp. H01N2-E-355 is used as a machine or manual welding cable or even as a connection cable between generator and an electrode. Its flexibility and resistance to hard mechanical stress makes it suitable for use in automotive-, tool and ship industry. The cable can be used in dry or damp rooms as well as outdoors.

Construction

Fine strands of bare copper wire with H01N2-D, resp. superfine strands of bare copper wire with H01N2-E. Outer sheath based on rubber with single or double layer, flame retardant and self-extinguishing (acc. to VDE 0482-2-1, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
100/100 V

Test voltage:
1000 V

Conductor standing:
H01N2-D: fine copper strands
acc. to VDE 0295, class 5
H01N2-E: superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 10 MOhm × km

Temperature range:
-25°C to +80°C

Bending radius:
H01N2-D: 12 × cable diameter
H01N2-E: 10 × cable diameter

Approvals:
acc. to VDE 0282, part 6

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
H01N2-D				
355 0100	10	96,0	7,7 - 9,7	140
355 0160	16	153,6	8,8 - 11,0	216
355 0250	25	240,0	10,1 - 12,7	300
355 0350	35	336,0	11,4 - 14,2	415
355 0500	50	480,0	13,2 - 16,5	571
355 0700	70	672,0	15,3 - 19,2	801
355 0950	95	912,0	17,4 - 21,4	1064
355 1200	120	1152,0	19,2 - 24,0	1323
355 1500	150	1440,0	21,1 - 26,4	1619
355 1850	185	1776,0	23,1 - 28,9	1966
H01N2-E				
355 0100 1	10	96,0	6,2 - 7,8	125
355 0160 1	16	153,6	7,3 - 9,1	195
355 0250 1	25	240,0	8,6 - 10,8	295
355 0350 1	35	336,0	9,8 - 12,3	403
355 0500 1	50	480,0	11,9 - 14,8	541
355 0700 1	70	672,0	13,6 - 17,0	786
355 0950 1	95	912,0	15,6 - 19,5	1044
355 1200 1	120	1152,0	17,2 - 21,6	1289
355 1500 1	150	1440,0	18,8 - 23,5	1578
355 1850 1	185	1776,0	20,4 - 25,5	1867

CC-Hydro-N-722

Submersible rubber cable for use in waste water
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-Hydro-N-722 is suitable in waste water for the link-up of electrical appliances such as for pollution abatement facilities, submerged pumps and scavenging collecting devices up to a diving depth of 250 m. The cable is also suitable for outdoor use as well as in dry, damp or wet rooms. The cable may not however be used in explosive endangered areas. It is also used as a connection cable for rotary motors up to 1000 V for protected and fixed installations.

Construction

Fine strands of bare copper wire, covered with a plastic foil separation layer, rubber based insulation, core colours acc. to VDE 0293 308, cores twisted in layers. Outer sheath on special rubber basis. Colour blue.

Technical data

Rated voltage:
450/750 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 100 MOhm × km

Temperature range:
In air:
fixed installation: -45°C to +70°C
flexible application: -25°C to +70°C
In water:
max. +40°C
higher temperatures reduce the lifespan

Bending radius:
12 × cable diameter

Approvals:
acc. to VDE 0282



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
722 0010 03	3 G 1,0	29,0	9,8	115	722 0500 01	1 X 50	480,0	17,8	739
722 0010 04	4 G 1,0	38,4	11,0	135	722 0500 03	3 G 50	1440,0	40,0	2480
					722 0500 04	4 G 50	1920,0	42,5	3155
722 0015 03	3 G 1,5	43,0	10,5	140					
723 0015 03	3 X 1,5	witho.gnye	10,5	140	722 0700 01	1 X 70	672,0	20,0	990
722 0015 04	4 G 1,5	58,0	11,2	185	722 0700 03	3 G 70	2016,0	45,0	3290
					722 0700 04	4 G 70	2688,0	47,8	4180
722 0025 03	3 G 2,5	72,0	11,8	210					
723 0025 03	3 X 2,5	witho.gnye	11,8	210	722 0950 01	1 X 95	912,0	22,2	1290
722 0025 04	4 G 2,5	96,0	12,9	260	722 0950 03	3 G 95	2736,0	51,5	4195
					722 0950 04	4 G 95	3648,0	53,8	4590
722 0040 03	3 G 4	115,0	13,6	286					
723 0040 03	3 X 4	witho.gnye	13,6	286					
722 0040 04	4 G 4	154,0	15,0	340					
722 0060 01	1 X 6	58,0	8,7	120					
722 0060 03	3 G 6	173,0	15,0	370					
722 0060 04	4 G 6	230,0	16,5	450					
722 0100 01	1 X 10	96,0	10,0	195					
722 0100 03	3 G 10	288,0	22,0	635					
722 0100 04	4 G 10	384,0	23,2	710					
722 0160 01	1 X 16	154,0	11,8	285					
722 0160 03	3 G 16	461,0	25,8	945					
722 0160 04	4 G 16	614,0	27,8	1190					
722 0250 01	1 X 25	240,0	13,7	401					
722 0250 03	3 G 25	720,0	30,9	1290					
722 0250 04	4 G 25	960,0	33,1	1680					
722 0350 01	1 X 35	336,0	15,3	530					
722 0350 03	3 G 35	1008,0	34,8	1720					
722 0350 04	4 G 35	1344,0	37,0	2250					

CC-Hydro-T-724

Submersible rubber cable for use in drinking water
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 724 3x2,5 Hydro-T CE

The CC-Hydro-T-724 is suitable for the link-up of electrical appliances such as for pollution abatement facilities, submerged pumps and float type switches up to a diving depth of 500 m. Its suitability for use in drinking water and meets the KTW recommendations (polymer drinking water recommendation of the polymer materials commission of the German Federal Health Office). The cable is also suitable for outdoor use as well as in dry, damp or wet rooms. The cable may not however be used in explosive endangered areas. It is also used as a connection cable for rotary motors up to 1000 V for protected and fixed installations.

Construction

Fine strands of bare copper wire, covered with a plastic foil separation layer, rubber based insulation, core colours acc. to VDE 0293 308, cores twisted in layers. Outer sheath on special rubber basis. Colour blue.

Technical data

Rated voltage:
450/750 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 100 MOhm × km

Temperature range:
In air:
fixed installation: -45°C to +70°C
flexible application: -25°C to +70°C
In water:
max. +40°C
higher temperatures reduce the lifespan

Bending radius:
12 × cable diameter

Approvals:
acc. to VDE 0282

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
724 0015 003	3 G 1,5	43,0	9,8	141
725 0015 003	3 X 1,5	witho.gnye	9,8	141
724 0015 004	4 G 1,5	58,0	11,0	180
724 0025 003	3 G 2,5	72,0	11,7	210
725 0025 003	3 X 2,5	witho.gnye	11,7	210
724 0025 004	4 G 2,5	96,0	12,9	260
724 0040 003	3 G 4	115,0	13,4	286
725 0040 003	3 X 4	witho.gnye	13,4	286
724 0040 004	4 G 4	154,0	15,0	350
724 0060 001	1 G 6	58,0	8,8	115
725 0060 003	3 X 6	173,0	15,9	314
724 0060 004	4 G 6	230,0	16,8	460
724 0100 001	1 G 10	96,0	10,6	178
725 0100 003	3 X 10	288,0	21,7	645
724 0100 004	4 G 10	384,0	22,3	830
724 0160 001	1 G 16	154,0	12,8	275
725 0160 003	3 X 16	461,0	25,8	965
724 0160 004	4 G 16	614,0	25,9	1195
724 0250 001	1 G 25	240,0	14,7	377
725 0250 003	3 X 25	720,0	30,4	1380
724 0250 004	4 G 25	960,0	31,0	1780
724 0350 001	1 G 35	336,0	16,8	498
725 0350 003	3 X 35	1008,0	33,8	1780
724 0350 004	4 G 35	1344,0	35,1	2300
724 0500 001	1 G 50	480,0	19,4	702
725 0500 003	3 X 50	1440,0	39,0	2503
724 0500 004	4 G 50	1920,0	42,9	3175
724 0700 001	1 G 70	672,0	21,4	930
725 0700 003	3 X 70	2016,0	43,5	3307
724 0700 004	4 G 70	2688,0	47,9	4190
724 0950 001	1 G 95	912,0	23,7	1190
725 0950 003	3 X 95	2736,0	48,4	4265
724 0950 004	4 G 95	3648,0	54,4	5495

CC-Hydro-T-flat-726

Submersible flat rubber cable for use in drinking water
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 726 3x4 Hydro-T-flach CE

The CC-Hydro-T-flat-726 is suitable for the link-up of electrical appliances such as for pollution abatement facilities, submerged pumps and float type switches up to a diving depth of 250 m. It is suitable for use in drinking water and meets the KTW recommendations (polymer drinking water recommendation of the polymer materials commission of the German Federal Health Office). The cable may not however be used in explosive endangered areas. It is also used as a connection cable for rotary motors up to 1000 V for protected and fixed installations.

Construction

Fine strands of bare copper wire, covered with a plastic foil separation layer, rubber based insulation, core colours acc. to VDE 0293 308. Cores layed parallel. Outer sheath on special rubber basis. Colour blue (black on request).

Technical data

Rated voltage:
450/750 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 100 MOhm × km

Temperature range:
In air:
fixed installation: -45°C to +70°C
flexible application: -25°C to +70°C
In water:
max. +40°C
higher temperatures reduce the lifespan

Bending radius:
10 × cable thickness

Approvals:
acc. to VDE 0282

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outside dimensions mm	Weight kg/km
726 0015 03 1	3 G 1,5	43,0	5,7 × 12,0	110
727 0015 03 1	3 X 1,5	witho.gnye	5,7 × 12,0	110
726 0015 04 1	4 G 1,5	58,0	5,7 × 16,5	156
726 0025 03 1	3 G 2,5	72,0	7,0 × 14,5	171
727 0025 03 1	3 X 2,5	witho.gnye	7,0 × 14,5	171
726 0025 04 1	4 G 2,5	96,0	7,0 × 20,0	237
726 0040 03 1	3 G 4	115,0	8,3 × 17,5	252
727 0040 03 1	3 X 4	witho.gnye	8,3 × 17,5	252
726 0040 04 1	4 G 4	154,0	8,3 × 23,7	349
727 0060 03 1	3 X 6	173,0	8,8 × 19,0	319
726 0060 04 1	4 G 6	230,0	8,8 × 25,7	440
727 0100 03 1	3 X 10	288,0	10,0 × 23,0	486
726 0100 04 1	4 G 10	384,0	10,0 × 31,3	666
727 0160 03 1	3 X 16	461,0	12,6 × 28,7	750
726 0160 04 1	4 G 16	614,0	12,6 × 39,0	1026
727 0250 03 1	3 X 25	720,0	14,3 × 34,1	1070
726 0250 04 1	4 G 25	960,0	14,3 × 45,8	1457
727 0350 03 1	3 X 35	1008,0	16,1 × 38,3	1438
726 0350 04 1	4 G 35	1344,0	16,1 × 52,0	1960
727 0500 03 1	3 X 50	1440,0	18,9 × 45,2	2054
726 0500 04 1	4 G 50	1920,0	18,9 × 61,2	2795
727 0700 03 1	3 X 70	2016,0	21,5 × 51,7	2760
726 0700 04 1	4 G 70	2688,0	21,5 × 69,4	3760
727 0950 03 1	3 X 95	2736,0	23,9 × 57,7	3600
726 0950 04 1	4 G 95	3648,0	23,9 × 78,0	4887

Lift- and Conveyor cable



CC-Lift-H-180

Lift cable with hemp support and braided fabric
Conforms to the EC low voltage guidelines 73/23/EEC CE

ConCab kabel Mainhardt 180 18x1,0 Lift-H CE

The CC-Lift-H-180 was specially designed to be used in lift, elevator constructions and in conveyor installations. The additional textile braid covering the cable assembly ensures flexing work during running does not impinge on the cores so that the cores are protected from exterior mechanical strains.

Construction

Superfine strands of bare copper wire, PVC core insulation, cores colours black with white numbering and green/yellow protective conductor on the outer layer.

Cores twisted in very short lay lengths around the hemp element, textile tape wrapping, textile braid. Outer sheath based on cold-flexible PVC, weather resistant, flame retardant and self extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1)
Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-15°C to +70°C

Bending radius:
20 × cable diameter

Approvals:
acc. to VDE 0250, 0281

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Suspension length approx. m
180 0007 012	12 G 0,75	86,0	18,0	370	120
180 0007 018	18 G 0,75	130,0	18,4	465	120
180 0007 024	24 G 0,75	173,0	20,8	520	80
180 0010 007	7 G 1,0	67,0	14,7	230	90
180 0010 012	12 G 1,0	115,0	18,8	400	80
180 0010 018	18 G 1,0	173,0	19,5	450	80
180 0010 020	20 G 1,0	192,0	20,0	500	70
180 0010 024	24 G 1,0	230,0	22,3	590	60
180 0010 036	36 G 1,0	346,0	28,0	950	90
180 2810 205	28 G 1,0 + (2 × 0,5)CY	295,0	25,9	765	90

For installation instructions please see page 501

ConCab kabel connects the world

CC-Lift-S-186

Lift cable with steel supporting wire and braid
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 186 24x1,0 Lift-S CE

The CC-Lift-S-186 is ideal for use in lift constructions and conveying equipment with extreme suspension lengths. The extra textil braid covering the core assembly ensures flexing work during running does not impinge on the cores so that the cores are protected from mechanical strains.

Construction

Superfine strands of bare copper wire, PVC core insulation, core colours black with white numbering and green/yellow protective conductor in the outer layer. Cores twisted in very short lay around the steel support, textile tape wrapping, textile braid.

Outer sheath based on cold-flexible PVC, weather resistant, flame retardant and self-extinguishing (acc. VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-15°C to +70°C

Bending radius:
20 × cable diameter

Approvals:
acc. to VDE 0250, 0281

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Suspension length approx. m
186 0010 024	24 G 1,0	230,0	23,0	610	150
186 0010 036	36 G 1,0	346,0	29,0	965	150

For installation instruction please see page 501.

ConCab kabel connects the world



CC-Lift-2S-187

Lift cable with two supporting steel wires
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 187 8x1,5 Lift-2S CE

The CC-Lift-2S-187 is particularly used as lift and hoist control cable in manual control units and conveyor systems. The two exterior steel wires support make it ideal for use on control platforms where there are self-supporting cables needed, e.g., with high-lift storage shelving. The weather resistant outer sheath makes it excellent for use under extreme operation and temperature conditions.

Construction

Superfine strands of bare copper wire, PVC core insulation, core colours are black with white numbering and green/yellow protective conductor in the outer layer, cores twisted in very short lay lengths, textile tape wrapping. Outer sheath based on cold-flexible PVC, weather resistant, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

The two supporting steel wires (tear resistance per rope approx. 2000 N) are integrated in the outer sheath and are separable without damaging the outer sheath. Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-15°C to +70°C

Bending radius:
20 × cable diameter

Approvals:
acc. to VDE 0250, 0281

Part-No.	No. of cores + cross-section	Copper weight kg/km	Dimensions approx. mm	Weight kg/km
187 0010 012	12 G 1,0	115,0	15,0 × 27,1	450
187 0010 018	18 G 1,0	173,0	17,2 × 32,1	530
187 0010 025	25 G 1,0	240,0	21,1 × 36,0	660
187 0010 030	30 G 1,0	288,0	22,0 × 39,2	765
187 0015 008	8 G 1,5	115,0	15,0 × 27,2	435
187 0015 012	12 G 1,5	173,0	16,6 × 31,6	510
187 0015 015	15 G 1,5	230,0	18,7 × 33,3	575
187 0015 018	18 G 1,5	259,0	19,2 × 35,0	650
187 0015 020	20 G 1,5	288,0	20,9 × 35,9	720
187 0015 024	24 G 1,5	346,0	22,5 × 37,5	830

For installation instruction please see page 501.

CC-flat cable H05VVH6-F-118 H07VVH6-F-118

Cold-flexible flat cable for cranes and conveyors
Conforms to the EC low voltage guideline 73/23/EEC CE



The harmonized CC-flat cable-118 is suitable indoors as a control and link-up cable for crane and conveyor systems as well as for moving machine parts. In comparison to round cables these closely laid cores achieve a considerable smaller bending radius. The CC-flat cable can be installed in dry and damp rooms. The cold-flexible PVC outer sheath enables it to be even used at low temperatures. The cable is also suitable to be installed in lifts and hoists so long as the suspension length does not exceed 35 m and the travelling speed does not exceed 1,6 m/s.

The outer sheath is extensively resistant to oil, fat, acid and lye.

Construction

Fine strands of bare copper wire, PVC core insulation, core colours acc. to VDE 0293 308, 3 cores or more with green/yellow protective conductor in the middle. Outer sheath out of cold-flexible PVC, flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:

up to 1,0mm²: 300/500 V
from 1,5mm²: 450/750 V

Test voltage:

3000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 20 MOhm × km

Temperature range:

fixed installation: -30°C to +70°C
flexible application: -5°C to +70°C

Bending radius:

Flexible application
up to 8 mm thickness: 5 × cable thickness
up to 12 mm thickness: 8 × cable thickness
above 12 mm thickness: 10 × cable thickness

Approvals:

acc. to VDE 0281,
part 403 and part 404

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Dimensions approx.		Weight kg/km
			mm		
118 0007 004	4 G 0,75	29,0	4,2 × 12,6		90
118 0007 008	8 G 0,75	58,0	4,2 × 23,2		175
118 0007 012	12 G 0,75	86,0	4,2 × 33,8		260
118 0007 018	18 G 0,75	130,0	4,2 × 50,2		380
118 0007 024	24 G 0,75	172,8	4,2 × 65,6		490
118 0010 004	4 G 1,0	38,4	4,4 × 13,4		105
118 0010 005	5 G 1,0	48,0	4,4 × 15,5		120
118 0010 008	8 G 1,0	77,0	4,4 × 24,8		205
118 0010 012	12 G 1,0	115,0	4,4 × 36,2		300
118 0010 018	18 G 1,0	173,0	4,4 × 53,8		450
118 0010 024	24 G 1,0	230,4	4,4 × 70,4		590
118 0015 004	4 G 1,5	58,0	5,1 × 14,8		167
118 0015 005	5 G 1,5	72,0	5,1 × 18,1		187
118 0015 007	7 G 1,5	101,0	5,1 × 24,0		217
118 0015 008	8 G 1,5	115,0	5,1 × 27,2		267
118 0015 010	10 G 1,5	144,0	5,1 × 34,0		312
118 0015 012	12 G 1,5	173,0	5,1 × 39,3		393
118 0015 018	18 G 1,5	259,0	5,1 × 61,4		665
118 0015 024	24 G 1,5	346,0	5,1 × 82,0		786
118 0025 004	4 G 2,5	96,0	5,8 × 18,0		202
118 0025 005	5 G 2,5	120,0	5,8 × 21,5		260
118 0025 007	7 G 2,5	168,0	5,8 × 30,7		345
118 0025 008	8 G 2,5	192,0	5,8 × 32,5		389
118 0025 010	10 G 2,5	240,0	5,8 × 41,4		490
118 0025 012	12 G 2,5	288,0	5,8 × 48,3		580
118 0025 024	24 G 2,5	605,0	5,8 × 102,0		1160
118 0040 004	4 G 4	154,0	7,0 × 21,0		311
118 0040 005	5 G 4	192,0	7,0 × 26,8		397
118 0040 007	7 G 4	269,0	7,0 × 36,0		539
118 0060 004	4 G 6	230,0	8,0 × 23,2		432
118 0060 005	5 G 6	288,0	8,0 × 31,4		550
118 0060 007	7 G 6	403,0	8,0 × 42,8		755
118 0100 004	4 G 10	384,0	9,6 × 29,2		712
118 0100 005	5 G 10	480,0	9,6 × 38,5		1120
118 0160 004	4 G 16	614,0	11,0 × 34,8		961
118 0160 005	5 G 16	768,0	11,0 × 45,0		1280
118 0250 004	4 G 25	960,0	13,3 × 42,2		1484
118 0350 004	4 G 35	1344,0	14,9 × 48,6		1988
118 0500 004	4 G 50	1920,0	17,9 × 48,0		2880
118 0700 004	4 G 70	2688,0	20,0 × 63,6		3847



CC-flat cable PVC-CY-192

Cold flexible flat cable for cranes and conveyors, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 192 7x3x1,0 CY CE

The CC-flat cable PVC-CY-192 shielded is suitable indoors as a control and signal cable for cranes and conveyors as well as for moving machine parts. The copper shielded single or respectively bundled cores make this cable ideally suited for use where considerable demands are made on electromagnetic compatibility (EMC). The closely packed shielded cores or bundles enable it to achieve a much smaller bending radius in comparison to round cables. The CC-flat cable PVC-CY can be installed in dry and damp rooms. The outer sheath is extensively resistant to oil, fat acid and lye.

Construction

Fine strands of bare copper wire, PVC core insulation, cores are black with consecutive white numbering, cores resp. bundles shielded with tinned copper shield, bandage underneath and above the shield. Outer sheath out of cold-flexible PVC, flame retardant (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 5 or 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -30°C to +70°C
flexible application: -5°C to +70°C

Bending radius:
20 × cable thickness

Approvals:
acc. to VDE 0250, 0281

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Dimensions approx. mm	Weight kg/km
192 505 01	5 × (0,50)	61,4	3,4 × 21,0	150
192 5405 00	5 × (4 × 0,50)*	133,0	7,2 × 37,4	440
192 7405 00	7 × (4 × 0,50)*	222,0	10,3 × 50,0	750
192 8705 01	8 × (7 × 0,50)	455,0	11,7 × 68,6	1180
192 14405 00	14 × (4 × 0,50)*	444,0	10,3 × 100,0	1490
192 410 00	4 × (1,0)*	57,5	5,0 × 13,9	130
192 4410 01	4 × (4 × 1,0)	315,0	11,0 × 33,5	630
192 7310 01	7 × (3 × 1,0)	275,0	10,3 × 50,0	760
192 14310 01	14 × (3 × 1,0)	551,0	10,3 × 100,0	1510
192 415 00	4 × (1,5)*	91,0	5,8 × 18,8	210
192 815 01	8 G (1,5)	190,0	5,8 × 35,5	400
192 815 00	8 × (1,5)*	190,0	5,8 × 35,5	400
192 1215 00	12 × (1,5)*	330,0	6,0 × 50,0	610
192 425 01	4 × (2,5)	168,0	6,9 × 21,0	270
192 440 01	4 × (4,0)	208,0	7,6 × 24,4	400
192 460 01	4 × (6,0)	325,0	9,1 × 29,4	520
192 4100 01	4 × (10,0)	518,0	10,5 × 35,8	840

*without gnye protective conductor

CC-flat cable neoprene-731

Robust und weather resistant flat cable for cranes and conveyors
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-flat cable neoprene-731 is suitable as a control and connection cable for cranes and conveyors on building sites, container goods railway stations and dockyards where operating conditions are rough. The closely packed cores lying side by side achieve a much tighter bending radius in comparison to round cables. The robust outer sheath is extensively resistant to oil, fat, acid and lye.

Construction

Fine strands of bare copper wire, rubber based core insulation, core colours acc. to VDE 0293 308, 6 cores or more black with white numbering and green/yellow protective conductor in the middle. Outer sheath special polychloreprene basis (neoprene), cold-flexible, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
up to 25 mm²: superfine copper strands
acc. to VDE 0295, class 6
from 35 mm²: fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 10 MOhm × km

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -25°C to +80°C

Bending radius:
10 × cable thickness

Approvals:
acc. to VDE 0250, part 809

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Dimensions approx. mm	Weight kg/km
731 0015 004	4 G 1,5	58,0	5,8 × 16,8	175
731 0015 005	5 G 1,5	72,0	5,8 × 21,4	211
731 0015 007	7 G 1,5	101,0	5,8 × 27,8	285
731 0015 008	8 G 1,5	115,0	5,8 × 30,9	324
731 0015 010	10 G 1,5	144,0	6,4 × 39,1	448
731 0015 012	12 G 1,5	173,0	6,4 × 45,7	525
731 0015 024	24 G 1,5	346,0	12,0 × 54,0	1070
731 0025 004	4 G 2,5	96,0	7,0 × 19,6	263
731 0025 005	5 G 2,5	120,0	7,0 × 25,2	337
731 0025 007	7 G 2,5	168,0	7,0 × 32,9	461
731 0025 008	8 G 2,5	192,0	7,0 × 36,6	490
731 0025 010	10 G 2,5	240,0	7,6 × 46,9	565
731 0025 012	12 G 2,5	288,0	7,6 × 54,3	776
731 0025 024	24 G 2,5	578,0	16,2 × 68,5	1827
731 0040 004	4 G 4	154,0	8,5 × 23,5	375
731 0040 005	5 G 4	192,0	8,5 × 29,9	529
731 0040 007	7 G 4	269,0	8,5 × 38,7	642
731 0060 004	4 G 6	230,0	9,3 × 26,9	511
731 0060 005	5 G 6	288,0	9,3 × 33,7	740
731 0060 007	7 G 6	403,0	9,3 × 44,5	879
731 0100 004	4 G 10	384,0	10,6 × 32,3	748
731 0100 005	5 G 10	480,0	10,6 × 40,4	946
731 0100 007	7 G 10	672,0	10,6 × 54,0	1345
731 0160 004	4 G 16	614,0	12,4 × 37,0	1157
731 0160 005	5 G 16	768,0	12,4 × 50,0	1450
731 0160 007	7 G 16	1075,0	12,4 × 65,1	2291
731 0250 004	4 G 25	960,0	14,0 × 44,6	1714
731 0250 005	5 G 25	1200,0	15,2 × 59,6	2228
731 0250 007	7 G 25	1680,0	15,2 × 77,8	3162
731 0350 004	4 G 35	1344,0	16,5 × 52,9	2152
731 0500 004	4 G 50	1920,0	19,1 × 61,0	2996
731 0700 004	4 G 70	2688,0	21,6 × 70,4	4300
731 0950 004	4 G 95	3648,0	24,4 × 78,9	5730
731 1200 004	4 G 120	4608,0	26,0 × 87,6	6300

CC-flat cable neoprene-C5G-735



**Robust and weather resistant flat cable
for cranes and conveyors, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE**

ConCab kabel Mainhardt 735 8x1,5 Neoprene-C5G CE

The CC-flat cable neoprene-C5G-735 shielded is a suitable control and connection cable for cranes and conveyors especially on building sites, container goods railway stations and dockyards where operating conditions are rough. The copper shielded single or respectively bundled cores make this cable ideally suited for use where there are considerable demands for electromagnetic compatibility (EMC). The closely packed cores lying side by side achieve a much tighter bending radius in comparison to round cables. The robust outer sheath is extensively resistant to oil, fat, acid and lye.

Construction

Fine strands of bare copper wire, rubber based core insulation, core colours acc. to VDE 0293 308, 3 cores or more with green/yellow protective conductor in the middle, cores shielded with tinned copper braid, bandage underneath and above the braiding. Outer sheath of special polychloreprene (neoprene), cold-flexible, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
up to 25 mm²: superfine copper strands
acc. to VDE 0295, class 6
from 35 mm²: fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -25°C to +80°C

Bending radius:
10 × cable thickness

Approvals:
acc. to VDE 0250, part 809

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Dimensions approx. mm	Weight kg/km
735 0015 004	4 G 1,5	79,0	8,0 × 22,6	361
735 0015 008	8 G 1,5	228,0	8,0 × 41,1	540
735 0015 012	12 G 1,5	342,0	8,0 × 59,8	800
735 0025 004	4 G 2,5	163,0	8,6 × 24,2	420
735 0025 006	6 G 2,5	245,0	8,6 × 33,8	540
735 0025 012	12 G 2,5	493,0	8,6 × 65,1	1010
735 0040 004	4 G 4	244,0	9,1 × 26,3	500
735 0060 004	4 G 6	321,0	9,8 × 29,1	610
735 0100 004	4 G 10	497,0	11,7 × 35,4	960
735 0160 004	4 G 16	805,0	14,0 × 40,8	1324
735 0250 004	4 G 25	1141,0	16,0 × 51,0	1800
735 0350 004	4 G 35	1633,0	18,0 × 60,0	2500
735 0500 004	4 G 50	2261,0	20,5 × 67,0	3300

CC-crane cable NSHTÖU-732

Flexible drum-reeling cable

Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-crane cable NSHTÖU-732 is suitable where there are heavy mechanical tasks such as frequent winding and unwinding with torsional strain at the same time. This occurs especially in transport and conveyor systems, hoists, mining and railtrack motors. The neoprene outer sheath makes the cable resistant to ozone and UV radiation as well as to oil, acid, fat and solvents. The cable may be used in dry, damp and wet rooms as well as outdoors.

Construction

Fine strands of tinned copper wire, rubber based core insulation, core colours acc. to VDE 0293 308, 7 cores or more black with white numbering and green/yellow protective conductor in the outer layer, cores twisted in short lay lengths, outer sheath based on neoprene (5GM2) with vulcanized textile braiding as torsion protection. The outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
2500 V

Conductor stranding:
fine tinned copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -45°C to +80°C
flexible application: -25°C to +80°C

Bending radius:
diameter up to 20 mm: 5 × cable diameter
diameter above 20 mm: 6 × cable diameter

Approvals:
acc. to VDE 0250, part 814

For installation instruction please see page 500.

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
732 0015 003	3 G 1,5	47,0	13,6	240
732 0015 004	4 G 1,5	58,0	14,6	235
732 0015 005	5 G 1,5	81,0	15,6	276
732 0015 007	7 G 1,5	115,0	18,4	414
732 0015 012	12 G 1,5	196,0	21,8	596
732 0015 018	18 G 1,5	271,0	25,0	801
732 0015 024	24 G 1,5	392,0	28,8	1024
732 0015 030	30 G 1,5	432,0	30,9	1229
732 0015 042	42 G 1,5	633,0	35,2	1733
732 0025 003	3 G 2,5	75,0	15,2	308
732 0025 004	4 G 2,5	99,0	16,7	368
732 0025 005	5 G 2,5	124,0	18,5	427
732 0025 007	7 G 2,5	180,0	21,0	578
732 0025 012	12 G 2,5	308,0	24,9	828
732 0025 018	18 G 2,5	451,0	29,2	1195
732 0025 024	24 G 2,5	616,0	33,5	1565
732 0025 030	30 G 2,5	771,0	35,0	1860
732 0025 040	40 G 2,5	1212,0	40,8	3115
732 0025 050	50 G 2,5	1300,0	48,5	4400
732 0040 004	4 G 4	158,0	19,7	552
732 0040 005	5 G 4	225,0	22,0	615
732 0060 004	4 G 6	241,0	21,6	591
732 0060 005	5 G 6	317,0	23,8	753
732 0100 004	4 G 10	404,0	25,8	974
732 0100 005	5 G 10	228,0	28,1	1189
732 0160 004	4 G 16	642,0	25,1	1388
732 0160 005	5 G 16	844,0	30,8	1667
732 0250 004	4 G 25	1005,0	35,0	2027
732 0350 004	4 G 35	1410,0	38,8	2569
732 0500 004	4 G 50	2010,0	44,8	3590
732 0700 004	4 G 70	2688,0	50,2	4637
732 0950 004	4 G 95	3648,0	58,5	6468
732 1200 004	4 G 120	4857,0	63,5	7870
732 1500 004	4 G 150	6011,0	67,9	9707

CC-crane cable PUR-190

Halogen-free, drum reeling cable with strain relief
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 190 18x1,0 PUR CE

The CC-crane cable PUR-190 is suitable to be used in crane facilities in dockyards and on railways as well as in road and mining industries. The exceptionally robust and abrasion resistant outer sheath as well as the optimized twisted lay lengths, enable this cable to be used in drag chains, control platforms, pumps and in similar appliances.

The cable is resistant to ozone and UV radiation, oil, fat and gasoline. It can be used in waste water as well as in salt water.

Construction

Superfine strands of bare copper wire, PUR core insulation, core colours acc. to VDE 0293 308, 7 cores or more black with white numbering and a green/yellow protective conductor in the outer layer, cores twisted in very short lay lengths around the strain relief core, fleece wrapping, kevlar braid. Outer sheath based on PUR, halogen-free, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour orange.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
2500 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-40°C to +80°C
short-term: +100°C

Bending radius:
10 × cable diameter

Approvals:
acc. to VDE 0250, 0282

For installation instruction please see page 500.

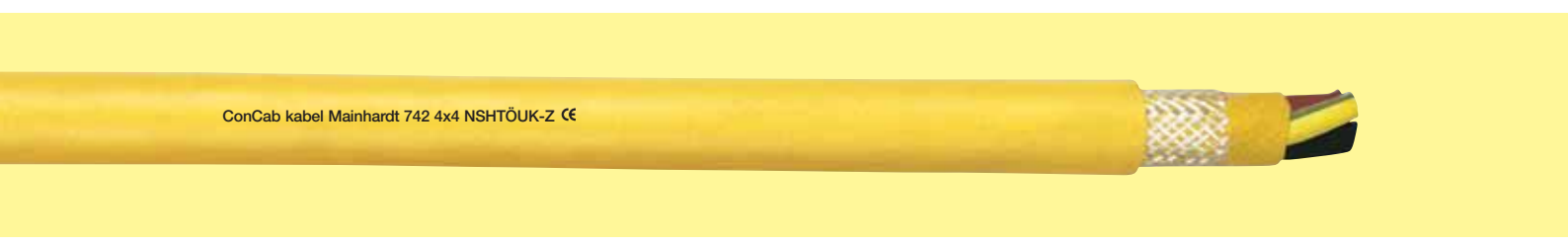
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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Tensile strength approx. N
190 0010 008	8 G 1,0	77,0	14,0	200	2500
190 0010 012	12 G 1,0	115,0	17,6	300	5000
190 0010 018	18 G 1,0	173,0	22,8	475	5000
190 0015 003	3 G 1,5	43,0	9,6	105	2000
190 0015 004	4 G 1,5	58,0	10,8	165	2000
190 0015 005	5 G 1,5	72,0	12,2	220	2000
190 0015 007	7 G 1,5	101,0	15,3	275	2500
190 0015 008	8 G 1,5	115,0	15,3	290	2500
190 0015 012	12 G 1,5	173,0	21,2	460	7500
190 0025 005	5 G 2,5	120,0	15,0	275	2500
190 0025 007	7 G 2,5	168,0	17,6	365	3000
190 0040 004	4 G 4	154,0	16,3	425	5000
190 0040 007	7 G 4	269,0	21,2	610	5000
190 0060 004	4 G 6	230,0	19,6	555	5000
190 0060 007	7 G 6	403,0	23,7	840	5000
190 0100 004	4 G 10	384,0	22,8	680	5000
190 0160 004	4 G 16	614,0	25,0	1140	5000
190 0250 004	4 G 25	960,0	30,2	1620	5000
190 0350 004	4 G 35	1344,0	36,4	2040	7500
190 0500 004	4 G 50	1920,0	42,0	2820	7500

CC-crane cable NSHTÖUK-Z-742

Flexible drum reeling cable with strain relief
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-crane cable NSHTÖUK-Z-742 is suitable where there are heavy mechanical tasks such as frequent winding and unwinding with torsional strain. This occurs especially in transport, conveyor and hoist systems. The neoprene outer sheath makes the cable resistant to ozone and UV radiation as well as to oil, acid, fat and solvents. The cable may be used in dry, damp and wet rooms as well as outdoors.

Construction

Fine strands of tinned copper wire, rubber based core insulation, core colours acc. to VDE 0293 308, 7 cores or more black with white numbering and a green/yellow protective conductor in the outer layer, cores twisted in short lay lengths around the strain relief core, outer sheath based on neoprene (5GM2) with a vulcanized textile braiding as torsion protection. The outer sheath is flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour yellow.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
2500 V

Conductor stranding:
fine tinned copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -45°C to +70°C
flexible application: -25°C to +70°C

Bending radius:
diameter up to 20 mm: 5 × cable diameter
diameter above 20 mm: 6 × cable diameter

Approvals:
acc. to VDE 0250, part 814

For installation instruction please see page 500.


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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
742 0015 007	7 G 1,5	115,0	20,2	580
742 0015 012	12 G 1,5	196,0	26,0	960
742 0015 018	18 G 1,5	271,0	27,2	1045
742 0015 024	24 G 1,5	392,0	31,0	1315
742 0015 026	26 G 1,5	425,0	33,0	1335
742 0015 036	36 G 1,5	588,0	36,2	1760
742 0025 007	7 G 2,5	180,0	23,0	760
742 0025 012	12 G 2,5	308,0	30,8	1280
742 0040 004	4 G 4	161,0	20,0	660
742 0040 005	5 G 4	225,0	22,5	770
742 0100 004	4 G 10	404,0	27,5	1140
742 0100 005	5 G 10	515,0	30,0	1310
742 0160 004	4 G 16	642,0	31,2	1580
742 0160 005	5 G 16	768,0	34,5	1860
742 0250 004	4 G 25	1005,0	36,0	2185
742 0500 004	4 G 50	2010,0	47,0	3845
742 0700 004	4 G 70	2688,0	52,0	4885
742 0950 004	4 G 95	3648,0	59,4	6450

CC-control cable Neorund-733

Control cable robust and weather resistant with strain relief
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 733 18x1,5 Neorund CE

The CC-control cable Neorund-733 is suitable as a control and link-up cable in rough and weather-proof conditions. It is specially designed for use in conveyor and hoist systems, building machines, dockyards and in container railway terminals. The integrated strain relief core permits larger suspension lengths which can sustain up additional tensile strength. This cable can be used in water for industrial purposes, in sea water and outdoors. The sheath is extensively resistant to oil, fat, acid and lye.

Construction

Superfine strands of bare copper wire, rubber based core insulation, core colours acc. to VDE 0293 308, 7 cores or more black with white numbering, 3 cores or more with a green/yellow protective conductor in the outer layer, cores twisted in short lay lengths around the support core. Bandage over each layer. Outer sheath on rubber basis, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1, resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
300/500 V

Test voltage:
3000 V

Conductor stranding:
superfine copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -25°C to +80°C
flexible application: -40°C to +80°C

Bending radius:
without restraint
fixed installation: 5 × cable diameter
flexible application: 10 × cable diameter

Approvals:
acc. to VDE 0250, 0282

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Tensile strength approx. N	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Tensile strength approx. N
733 0010 002	2 X 1,0	19,2	8,0	91	300	733 0025 018	18 G 2,5	432,0	26,4	1025	570
733 0010 003	3 G 1,0	29,0	8,7	116	150	733 0025 024	24 G 2,5	576,0	28,5	1402	6100
733 0010 004	4 G 1,0	38,4	8,9	142	300	733 0025 036	36 G 2,5	864,0	33,2	2334	2700
733 0010 005	5 G 1,0	48,0	10,4	171	1300						
733 0010 007	7 G 1,0	67,0	13,0	230	2300	733 0040 004	4 G 4	154,0	15,2	410	600
733 0010 009	9 G 1,0	86,4	13,6	268	2900	733 0040 005	5 G 4	192,0	16,8	435	600
733 0010 012	12 G 1,0	115,0	17,0	390	6700						
733 0010 016	16 G 1,0	165,0	17,8	430	570	733 0060 004	4 G 6	230,0	18,8	524	1000
733 0010 018	18 G 1,0	173,0	18,7	475	960	733 0060 005	5 G 6	295,0	19,2	570	1000
733 0010 020	20 G 1,0	206,0	20,0	510	980						
733 0010 024	24 G 1,0	230,4	22,5	650	2900	733 0100 004	4 G 10	384,0	21,8	725	1200
733 0010 036	36 G 1,0	371,0	25,5	940	960	733 0100 005	5 G 10	480,0	24,6	924	1200
733 0010 048	48 G 1,0	461,0	29,6	1247	1440						
733 0010 054	54 G 1,0	518,0	31,6	1410	1620	733 0160 004	4 G 16	614,0	25,4	1057	1900
733 0010 061	61 G 1,0	586,0	32,9	1496	1830	733 0160 005	5 G 16	768,0	28,0	1260	2400
733 0015 002	2 X 1,5	29,0	8,0	96	300						
733 0015 003	3 G 1,5	44,0	9,5	130	150						
733 0015 004	4 G 1,5	58,0	10,5	180	570						
733 0015 005	5 G 1,5	72,0	11,8	237	870						
733 0015 007	7 G 1,5	102,0	13,8	294	2600						
733 0015 008	8 G 1,5	115,0	14,0	310	3400						
733 0015 009	9 G 1,5	130,0	15,8	335	3900						
733 0015 010	10 G 1,5	153,0	17,0	406	450						
733 0015 012	12 G 1,5	173,0	20,5	520	7700						
733 0015 015	15 G 1,5	229,0	22,5	590	680						
733 0015 018	18 G 1,5	259,0	23,6	630	960						
733 0015 019	19 G 1,5	274,0	24,1	670	860						
733 0015 024	24 G 1,5	346,0	26,0	818	3800						
733 0015 037	37 G 1,5	533,0	31,0	1220	960						
733 0015 042	42 G 1,5	642,0	31,0	1389	1800						
733 0015 048	48 G 1,5	691,0	33,0	1630	1600						
733 0015 050	50 G 1,5	720,0	37,0	1740	1600						
733 0015 061	61 G 1,5	880,0	42,1	1953	2000						
733 0025 002	2 X 2,5	48,0	9,7	143	300						
733 0025 003	3 G 2,5	72,0	10,2	173	300						
733 0025 004	4 G 2,5	96,0	12,3	256	570						
733 0025 005	5 G 2,5	120,0	12,4	309	570						
733 0025 007	7 G 2,5	168,0	15,8	380	3460						
733 0025 009	9 G 2,5	216,0	18,9	542	680						
733 0025 012	12 G 2,5	288,0	24,0	710	6000						
733 0025 016	16 G 2,5	411,0	24,3	815	570						

CC-rubber cable NSSHÖU-750

Rubber cable for high mechanical stress 0.6/1kV
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-rubber cable NSSHÖU-750 is designed for strong mechanical tasks, e.g., coal mining underground, in open pit mining, on building sites and other industries, in dry and damp rooms as well as outdoors. It is also designed for fixed installation, e.g., on plaster.

Construction

Fine strands of tinned copper wire, rubber based core insulation, core colours acc. to VDE 0293 308, 7 cores or more black with white numbering and green/yellow protective conductor in the outer layer, cores twisted in layers. Multi-core cable with inner sheath based on rubber. Outer sheath based on rubber (neoprene), flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour yellow.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +80°C
flexible application: -25°C to +80°C

Bending radius:
fixed installation: 5 × cable diameter
flexible application: 10 × cable diameter

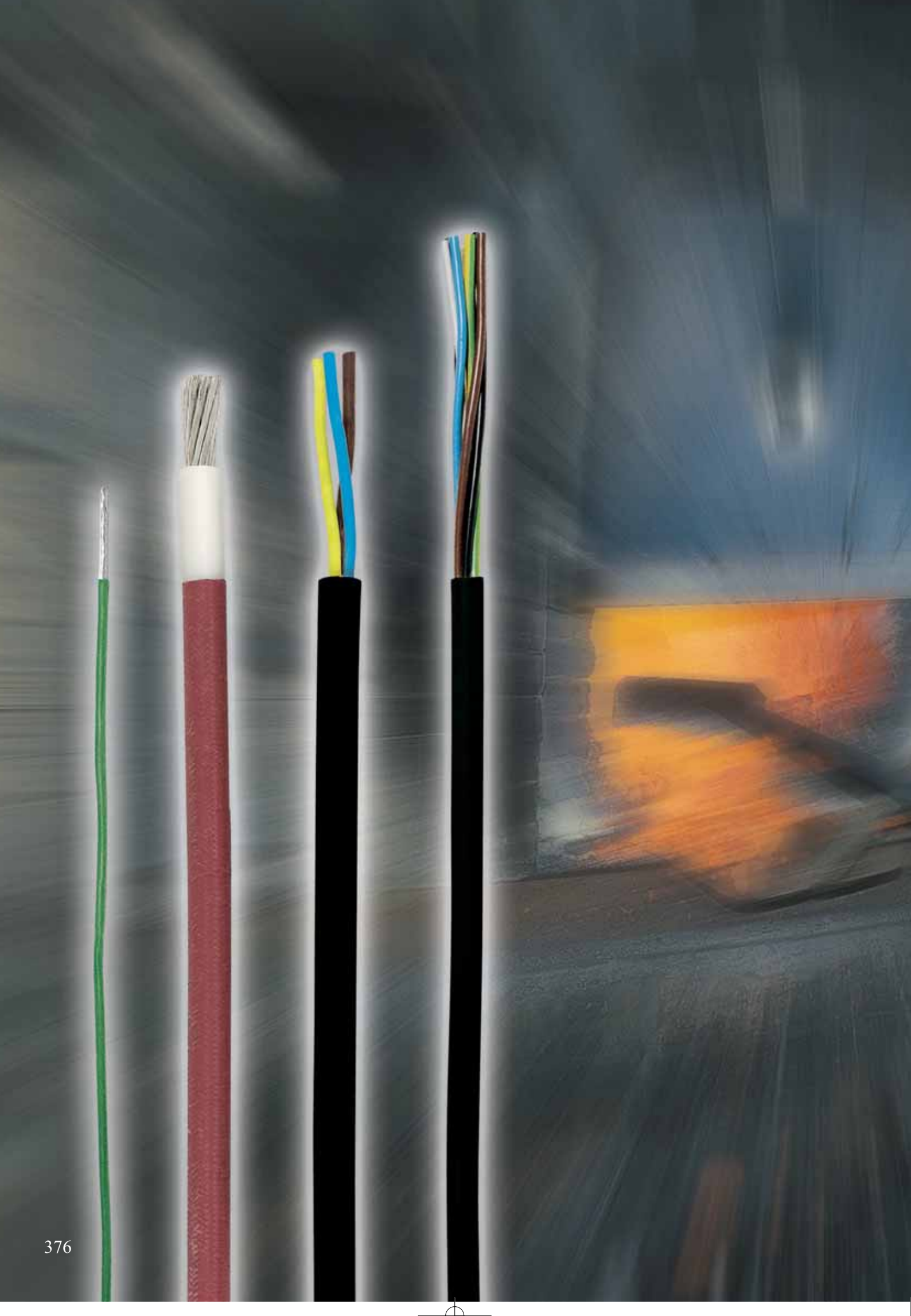
Approvals:
acc. to VDE 0250, part 812

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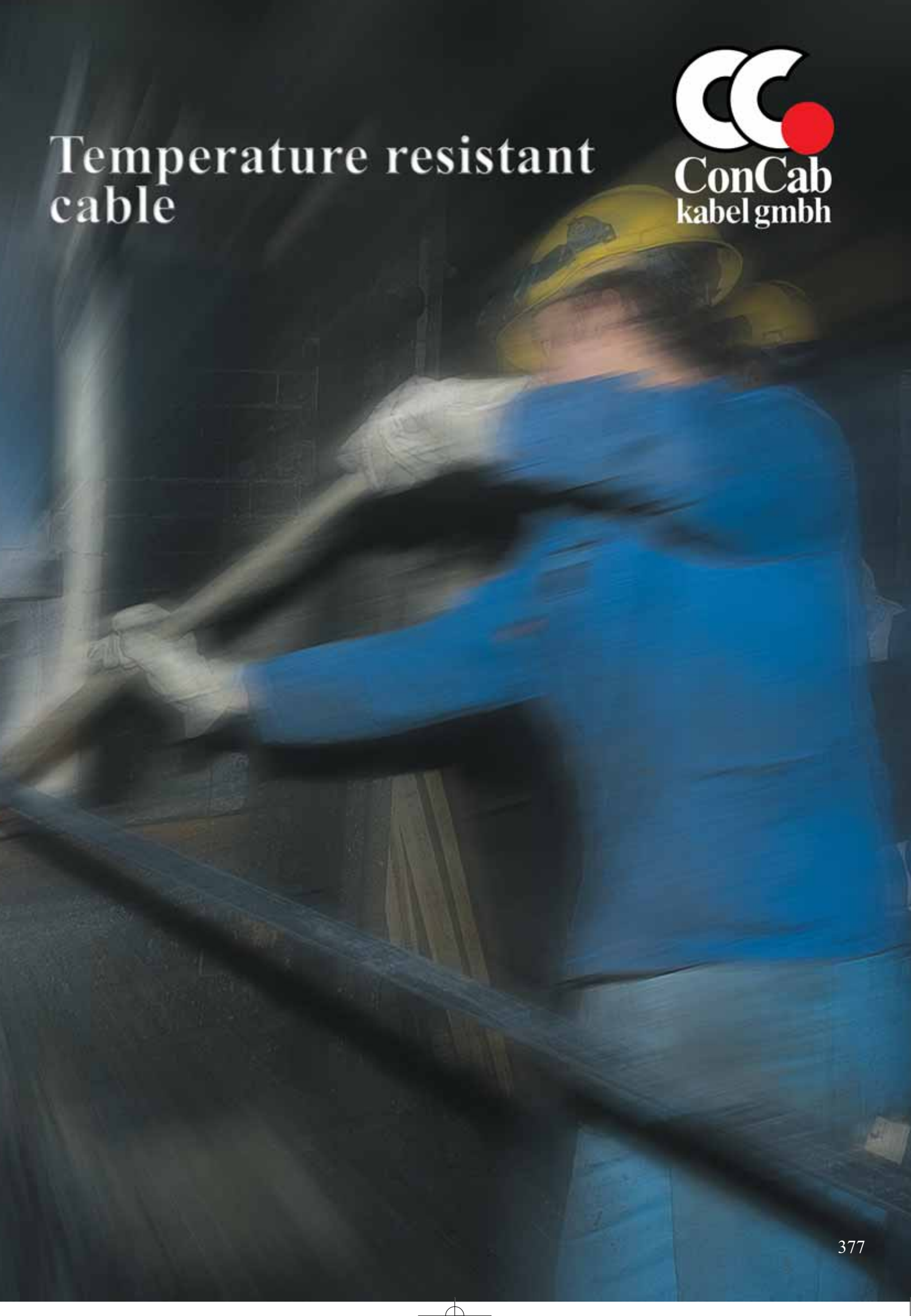


Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
750 0015 003	3 G 1,5	43,0	13,0	205	750 0500 001	1 X 50	480,0	18,3	695
750 0015 004	4 G 1,5	58,0	13,5	240	750 0500 003	3 G 50/25	1680,0	44,9	3190
750 0015 005	5 G 1,5	72,0	14,5	290	750 0500 004	4 G 50	1920,0	45,1	3710
750 0015 007	7 G 1,5	101,0	17,0	460					
750 0015 010	10 G 1,5	144,0	19,7	555	750 0700 001	1 X 70	672,0	20,4	930
					750 0700 003	3 G 70/35	2352,0	48,7	3870
750 0025 002	2 X 2,5	48,0	13,4	235	750 0700 004	4 G 70	2688,0	46,9	4310
750 0025 003	3 G 2,5	72,0	14,3	260					
750 0025 004	4 G 2,5	96,0	16,1	375	750 0950 001	1 X 95	912,0	22,7	1215
750 0025 005	5 G 2,5	120,0	17,2	385	750 0950 003	3 G 95/50	3216,0	57,5	5710
750 0025 007	7 G 2,5	168,0	19,2	490	750 0950 004	4 G 95	3648,0	51,8	6150
750 0025 012	12 G 2,5	288,0	25,0	795					
750 0025 018	18 G 2,5	432,0	29,8	1230	750 1200 001	1 X 120	1152,0	25,0	1515
					750 1200 003	3 G 120/70	4128,0	58,2	6950
750 0040 003	3 G 4	115,2	17,0	410	750 1200 004	4 G 120	4608,0	59,5	7205
750 0040 004	4 G 4	154,0	18,0	457					
750 0040 005	5 G 4	192,0	19,4	560	750 1500 001	1 X 150	1440,0	27,5	1790
750 0060 003	3 G 6	173,0	18,1	509	750 1850 001	1 X 185	1776,0	29,0	2280
750 0060 004	4 G 6	230,0	20,3	560					
750 0060 005	5 G 6	288,0	23,0	675	750 2400 001	1 X 240	2304,0	34,2	2940
750 0100 004	4 G 10	384,0	25,0	860	750 3000 001	1 X 300	2880,0	37,8	3450
750 0100 005	5 G 10	480,0	26,5	1100					
750 0160 001	1 X 16	154,0	11,8	260					
750 0160 004	4 G 16	614,0	30,3	1395					
750 0160 005	5 G 16	768,0	31,5	1500					
750 0250 001	1 X 25	240,0	14,9	390					
750 0250 004	4 G 25	960,0	36,0	2050					
750 0250 005	5 G 25	1200,0	35,9	2930					
750 0350 001	1 X 35	336,0	16,0	515					
750 0350 004	4 G 35	1344,0	38,8	2580					

Additional designs acc. to VDE 0250, part 812 on request



Temperature resistant cable



CC-Therm 105°C-600

Heat-resistant PVC-control cable

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 600 3x1,5 105 °C CE



The CC-Therm 105°C-600 is suitable as a control cable for environmental conditions involving high temperatures. It can be used in machine tools, plant and apparatus construction, heating, air-conditioning and ventilation technology as well as in additional sectors of electronic equipment.

Construction

Fine strands of bare copper wire, PVC heat-resistant core insulation, core colours acc. to VDE 0293 308, cores twisted in layers. Outer sheath based on heat-resistant PVC, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
300/500V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -10°C to + 90°C
short-term: +105°C

Bending radius:
fixed installation: 5 × cable diameter

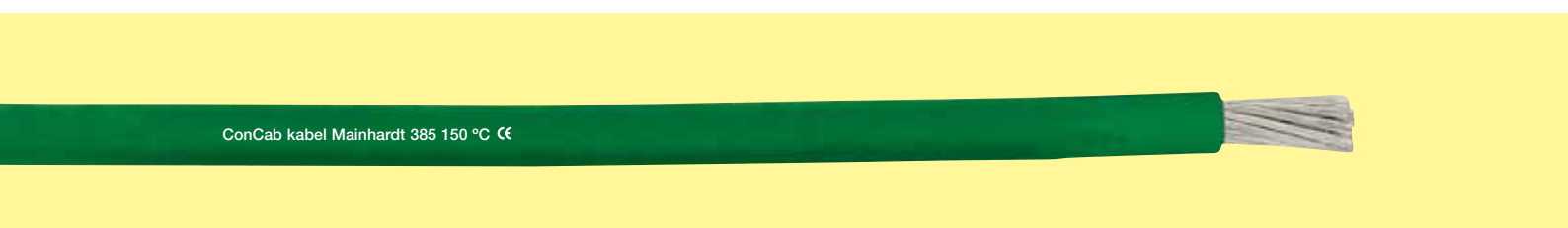
Approvals:
acc. to VDE 0245, 0250, 0281



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
600 0005 002 3	2 X 0,5	9,6	5,1	40
600 0005 003 3	3 G 0,5	14,4	5,3	52
600 0005 004 3	4 G 0,5	19,2	5,7	64
600 0005 005 3	5 G 0,5	24,0	6,8	69
600 0005 007 3	7 G 0,5	33,6	8,2	90
600 0005 012 3	12 G 0,5	58,0	10,2	145
600 0005 018 3	18 G 0,5	86,0	11,7	172
600 0005 025 3	25 G 0,5	101,0	14,9	248
600 0007 002 3	2 X 0,75	14,4	5,9	52
600 0007 003 3	3 G 0,75	21,6	6,2	63
600 0007 004 3	4 G 0,75	29,0	6,8	77
600 0007 005 3	5 G 0,75	36,0	7,9	95
600 0007 007 3	7 G 0,75	50,0	9,0	114
600 0007 012 3	12 G 0,75	86,0	11,5	181
600 0007 018 3	18 G 0,75	130,0	13,6	272
600 0007 025 3	25 G 0,75	180,0	16,8	383
600 0010 002 3	2 X 1,0	19,2	6,4	62
600 0010 003 3	3 G 1,0	29,0	6,9	75
600 0010 004 3	4 G 1,0	38,0	7,9	89
600 0010 005 3	5 G 1,0	48,0	8,7	110
600 0010 006 3	6 G 1,0	58,0	9,3	122
600 0010 007 3	7 G 1,0	67,0	10,0	131
600 0010 012 3	12 G 1,0	115,0	12,6	224
600 0010 018 3	18 G 1,0	173,0	14,9	352
600 0010 025 3	25 G 1,0	240,0	18,2	487
600 0015 002 3	2 X 1,5	29,0	7,5	79
600 0015 003 3	3 G 1,5	43,0	8,2	99
600 0015 004 3	4 G 1,5	58,0	9,2	122
600 0015 005 3	5 G 1,5	72,0	10,2	145
600 0015 007 3	7 G 1,5	101,0	11,7	179
600 0015 012 3	12 G 1,5	173,0	14,6	311
600 0015 018 3	18 G 1,5	259,0	17,5	459
600 0015 025 3	25 G 1,5	360,0	21,7	652
600 0025 002 3	2 X 2,5	48,0	9,4	120
600 0025 003 3	3 G 2,5	72,0	10,3	151
600 0025 004 3	4 G 2,5	96,0	11,0	202
600 0025 005 3	5 G 2,5	120,0	12,4	253
600 0025 007 3	7 G 2,5	168,0	14,2	314
600 0040 002 3	2 X 4	77,0	10,6	183
600 0040 004 3	4 G 4	154,0	12,7	299

CC-Therm 150°C-385

Halogen-free, heat-resistant EVA single core 450/750V
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 385 150 °C CE

The CC-Therm 150°C-385 is particularly suitable to be used in environmental conditions with high operating temperatures as well as great temperature fluctuations. They are ideal for use in buildings stipulating a high level of protection for humans and goods, as they exude very low non-toxic burning gases which in any case do not have a corrosive effect. The single core has a very good resistance to atmospheric corrosion and may therefore be used in damp surroundings and outdoors.

Construction

Fine strands of tinned copper wire, EVA based core insulation, halogen-free, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Technical data

Rated voltage:
450/750V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm \times km

Temperature range:
flexible application: -50°C to +150°C
short-term: +170°C

Bending radius:
flexible application: 5 \times core diameter

Approvals:
acc. to VDE 0245, 0250, 0281, 0282

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
385 00051 ..	0,50	4,8	2,2	9
385 00071 ..	0,75	7,2	2,4	12
385 00101 ..	1,0	9,6	2,5	14
385 00151 ..	1,5	14,4	3,0	21
385 00251 ..	2,5	24,0	3,6	31
385 00401 ..	4,0	38,4	4,3	47
385 00601 ..	6,0	57,6	4,9	73
385 01001 ..	10,0	96,0	6,6	125
385 01601 ..	16,0	153,6	7,7	185
385 02501 ..	25,0	240,0	9,6	280
385 03501 ..	35,0	336,0	10,7	370
385 05001 ..	50,0	480,0	12,6	540
385 07001 ..	70,0	672,0	14,9	730
385 09501 ..	95,0	912,0	17,2	990
385 12001 ..	120,0	1152,0	19,6	1250
385 15001 ..	150,0	1440,0	20,9	1650
385 18501 ..	185,0	1776,0	24,4	1750

Please complete the Part-No. ... (when) ordering with the following specifications = colour

00 black	04 white	08 orange	11 beige
01 blue	05 grey	09 yellow	12 dark blue
02 brown	06 violet	10 green	99 green/yellow
03 red	07 pink		

CC-Therm 150°C-371

Halogen-free, heat-resistant EVA-control cable 450/750 V
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 371 5x1,5 150 °C CE



The CC-Therm 150°C-371 is suitable as a control cable in environmental conditions with unusually high temperatures. It can be used in machine tools, plant and apparatus construction, heating, air-conditioning and ventilation technology as well as in additional sectors of electronic equipment. The halogen-free control cable is for use in buildings stipulating a high level of protection for humans and goods, as they exude very low non-toxic burning gases which in any case do not have a corrosive effect. The black outer sheath is extensively resistant to UV radiation and ozone. The cable has a very good resistance to atmospheric corrosion and may therefore be used in damp surroundings and outdoors.

Construction

Fine strands of tinned copper wire, EVA based core insulation, core colours acc. to VDE 0293 308, cores twisted in layers, foil wrapping. Outer sheath based on EVA, halogen-free, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.

Technical data

Rated voltage:
450/750 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
flexible application:
-50°C to +150°C
short-term: +170°C

Bending radius:
flexible application: 10 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281, 0282

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
371 0005 002 00	2 X 0,5	9,6	5,8	45
371 0005 003 00	3 G 0,5	14,4	6,2	63
371 0005 004 00	4 G 0,5	19,2	6,9	79
371 0005 005 00	5 G 0,5	24,0	7,5	90
371 0007 002 00	2 X 0,75	14,4	6,3	58
371 0007 003 00	3 G 0,75	21,6	6,8	70
371 0007 004 00	4 G 0,75	29,0	7,6	88
371 0007 005 00	5 G 0,75	36,0	8,4	117
371 0010 002 00	2 X 1,0	19,2	6,6	66
371 0010 003 00	3 G 1,0	29,0	7,2	87
371 0010 004 00	4 G 1,0	38,0	7,8	104
371 0010 005 00	5 G 1,0	48,0	8,8	130
371 0015 002 00	2 X 1,5	29,0	8,0	81
371 0015 003 00	3 G 1,5	43,0	8,4	109
371 0015 004 00	4 G 1,5	58,0	9,2	147
371 0015 005 00	5 G 1,5	72,0	10,1	171
371 0025 002 00	2 X 2,5	48,0	9,0	130
371 0025 003 00	3 G 2,5	72,0	9,6	171
371 0025 004 00	4 G 2,5	96,0	10,7	205
371 0025 005 00	5 G 2,5	120,0	11,9	261
371 0040 003 00	3 G 4	115,0	11,7	250
371 0040 004 00	4 G 4	154,0	13,2	293
371 0040 005 00	5 G 4	192,0	14,7	400
371 0060 003 00	3 G 6	173,0	13,5	280

ConCab kabel Mainhardt 372 3x1,5 150 °C CE

The CC-Therm 150°C-C-372 shielded is suitable as a control cable in environmental conditions with unusually high temperatures. It can be used in machine tools, plant and apparatus construction, heating, air-conditioning and ventilation technology as well as in additional sectors of electronic equipment. The halogen-free control cable is for use in buildings stipulating a high level of protection for humans and goods, since the cable exudes very low non-toxic burning gases which in any case do not have a corrosive effect. The black outer sheath is extensively resistant to UV radiation and ozone. The cable has a very good resistance to atmospheric corrosion and may therefore be used in damp surroundings and outdoors. The overall copper shield ensures a reliable transmission of data or impulses and protects the cable against electrical interferences and disturbances.

Construction

Fine strands of tinned copper wire, EVA based core insulation, core colours acc. to VDE 0293 308, 7 cores or more black with white numbering and a green/yellow protective conductor, cores twisted in layers, foil tinned copper shield. Outer sheath based on EVA, halogen-free, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
450/750 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 20 MOhm × km

Temperature range:
flexible application:
-50°C to +150°C
short-term: +170°C

Bending radius:
flexible application: 10 × cable diameter

Approvals:
acc. to VDE 0245, 0250, 0281, 0282



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
372 0005 002	2 X 0,5	36,0	6,7	85
372 0005 003	3 G 0,5	43,0	7,1	96
372 0005 004	4 G 0,5	51,0	7,8	105
372 0005 005	5 G 0,5	58,0	8,4	118
372 0007 002	2 X 0,75	45,0	7,2	90
372 0007 003	3 G 0,75	53,0	7,7	110
372 0007 004	4 G 0,75	64,0	8,5	125
372 0007 005	5 G 0,75	74,0	9,3	142
372 0010 002	2 X 1,0	51,0	7,5	102
372 0010 003	3 G 1,0	63,0	8,1	128
372 0010 004	4 G 1,0	76,0	8,7	148
372 0010 005	5 G 1,0	91,0	9,7	172
372 0015 002	2 X 1,5	65,0	8,9	132
372 0015 003	3 G 1,5	88,0	9,3	167
372 0015 004	4 G 1,5	107,0	10,1	177
372 0015 005	5 G 1,5	128,0	11,0	208
372 0015 007	7 G 1,5	162,0	13,5	290
372 0025 002	2 X 2,5	92,0	9,9	175
372 0025 003	3 G 2,5	123,0	10,5	199
372 0025 004	4 G 2,5	149,0	11,6	240
372 0025 005	5 G 2,5	176,0	12,8	287
372 0025 007	7 G 2,5	253,0	16,3	430
372 0040 003	3 G 4	179,0	12,5	400
372 0040 004	4 G 4	237,0	13,6	450
372 0040 005	5 G 4	280,0	14,4	552

CC-silicone single cores

SiF, SiF/GL, SiD, SiD/GL, SiFF

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 335 SiD CE

The halogen-free silicone single cores are particularly resistant to high temperature and especially suitable to be used in environmental conditions where high operating temperatures as well as great temperature fluctuations occur.

Construction

SiF:

Fine strands of tinned copper wire, silicone based core insulation.

SiF/GL:

Fine strands of tinned copper wire, silicone based core insulation.
Impregnated glass fibre braiding (in accordance to H05SJ-K).

SiD:

Solid tinned copper wire, silicone based core insulation.

SiD/GL:

Solid tinned copper wire, silicone based core insulation.
Impregnated glass fibre braiding.

SiFF:

Superfine strands of tinned copper wire.
Silicone based core insulation.

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
SiF, SiF/GL:
fine tinned copper strands
acc. to VDE 0295, class 5

SiD, SiD/GL:
solid tinned copper wire
acc. to VDE 0295, class 1

SiFF:
superfine tinned copper strands
acc. to VDE 0295, class 6

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-60°C to +180°C
short-term: +220°C

Bending radius:
fixed installation: 6 × core diameter
flexible application: 15 × core diameter

Approvals:
acc. to VDE 0250, 0282

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
SiF:				
325 0002 ..	0,25	2,4	1,9	5,4
325 0005 ..	0,50	4,8	2,1	8,0
325 0007 ..	0,75	7,2	2,4	11,2
325 0010 ..	1,0	9,6	2,5	13,5
325 0015 ..	1,5	14,4	2,8	18,5
325 0025 ..	2,5	24,0	3,4	30,0
325 0040 ..	4,0	38,4	4,2	47,5
325 0060 ..	6,0	58,0	4,9	71,0
325 0100 ..	10,0	96,0	6,7	120,0
325 0160 ..	16,0	154,0	7,7	187,5
325 0250 ..	25,0	240,0	9,8	289,0
325 0350 ..	35,0	336,0	10,9	398,5
325 0500 ..	50,0	480,0	12,6	559,0
325 0700 ..	70,0	672,0	14,6	766,0
325 0950 ..	95,0	912,0	17,5	1031,5
325 1200 ..	120,0	1152,0	18,7	1285,0
325 1500 ..	150,0	1440,0	20,8	1563,0
325 1850 ..	185,0	1776,0	23,7	1915,0
SiF/GL:				
330 0002 ..	0,25	2,4	2,4	8,0
330 0005 ..	0,50	4,8	2,8	12,5
330 0007 ..	0,75	7,2	3,2	16,0
330 0010 ..	1,0	9,6	3,4	18,5
330 0015 ..	1,5	14,0	3,9	23,5
330 0025 ..	2,5	24,0	4,5	36,0
330 0040 ..	4,0	38,4	5,2	53,0
330 0060 ..	6,0	58,0	5,9	77,0
330 0100 ..	10,0	96,0	7,9	129,0
330 0160 ..	16,0	154,0	9,2	198,5
330 0250 ..	25,0	240,0	10,9	303,5
330 0350 ..	35,0	336,0	12,2	414,0
330 0500 ..	50,0	480,0	14,3	578,5

Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
SiD:				
335 0005 ..	0,50	4,8	2,0	7,5
335 0007 ..	0,75	7,2	2,2	10,5
335 0010 ..	1,0	9,6	2,3	13,0
335 0015 ..	1,5	14,4	2,6	18,0
335 0025 ..	2,5	24,0	3,2	29,0
335 0040 ..	4,0	38,4	3,9	45,0
335 0060 ..	6,0	58,0	4,5	64,5
SiD/GL:				
336 0005 ..	0,50	4,8	2,5	10
336 0007 ..	0,75	7,2	2,7	15
336 0010 ..	1,0	9,6	2,8	19
336 0015 ..	1,5	14,4	3,1	28
336 0025 ..	2,5	24,0	3,7	40
336 0040 ..	4,0	36,0	4,4	55
336 0060 ..	6,0	58,0	4,9	80
SiFF:				
340 0002 ..	0,25	2,4	1,9	5,4
340 0005 ..	0,50	4,8	2,2	8,0
340 0007 ..	0,75	7,2	2,4	11,2
340 0010 ..	1,0	9,6	2,7	13,5
340 0015 ..	1,5	14,4	3,1	18,5
340 0025 ..	2,5	24,0	3,8	30,0
340 0040 ..	4,0	38,4	4,7	47,5
340 0060 ..	6,0	58,0	5,6	71,0
340 0100 ..	10,0	96,0	7,0	120,0
340 0160 ..	16,0	154,0	8,5	187,5

Please complete the Part-No. .. when ordering
with following specifications = colour

00 black	05 grey	10 green
01 blue	06 violet	11 beige
02 brown	07 pink	41 redbrown
03 red	08 orange	50 transparent (natural)
04 white	09 yellow	99 green/yellow

Additional colours on request

CC-silicone single core-386

Halogen-free with synthetic yarn braid, 1,1 kV - 13,8 kV

ConCab kabel Mainhardt 386 Si - 3,3 kV CE

The high temperature resistant, halogen-free CC-silicone single core-386 is specially designed for wiring motors, generators, transformers, current converters as well as in ship-building and railroad construction.

Construction

Fine strands of tinned copper wire, as of 6,6 kV with semi-conductor tape over the strands to smooth conductor, silicone based core insulation, synthetic yarn braid covered with lacquer based on a PUR-basis, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 332-1).
Colours: 1,1 kV yellow
3,3 kV redbrown
6,6 kV grey
13,8 kV black

Technical data

Rated voltage:

1,1 kV
3,3 kV
6,6 kV
13,8 kV

Test voltage:

3,5 kV
10,0 kV
15,0 kV
30,0 kV

Conductor stranding:

fine tinned copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 200 MOhm × km

Temperature range:

flexible application: -60°C to +180°C
short-term: +230°C

Bending radius:

5 × core diameter

Approvals:

acc. to VDE 0250, 0282

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
1,1 kV					6,6 kV				
386 0015 11	1,5	14,4	4,1	26	386 0040 66	4,0	38,0	8,0	90
386 0025 11	2,5	24,0	4,5	37	386 0060 66	6,0	58,0	8,5	110
386 0040 11	4,0	38,0	5,0	60	386 0100 66	10,0	96,0	9,4	170
386 0060 11	6,0	58,0	5,5	75	386 0160 66	16,0	154,0	11,3	200
386 0100 11	10,0	96,0	6,4	120	386 0250 66	25,0	240,0	13,0	315
386 0160 11	16,0	154,0	8,5	200	386 0350 66	35,0	336,0	14,2	415
386 0250 11	25,0	240,0	10,5	295	386 0500 66	50,0	480,0	16,5	600
386 0350 11	35,0	336,0	11,8	400	386 0700 66	70,0	672,0	18,5	785
386 0500 11	50,0	480,0	14,1	515	386 0950 66	95,0	912,0	20,2	1030
386 0700 11	70,0	672,0	16,1	710	386 1200 66	120,0	1152,0	22,2	1275
386 0950 11	95,0	912,0	18,3	930	386 1500 66	150,0	1440,0	24,2	1585
386 1200 11	120,0	1152,0	20,2	1100	386 1850 66	185,0	1776,0	26,2	2020
386 1500 11	150,0	1440,0	22,5	1444	386 2400 66	240,0	2304,0	28,6	2460
386 1850 11	185,0	1776,0	24,9	1850	13,8 kV				
386 2400 11	240,0	2304,0	27,3	2435	386 0060 138	6,0	58,0	11,1	165
3,3 kV					386 0100 138	10,0	96,0	12,1	220
386 0025 33	2,5	24,0	6,3	57	386 0160 138	16,0	154,0	14,0	305
386 0040 33	4,0	38,0	6,9	75	386 0250 138	25,0	240,0	15,6	346
386 0060 33	6,0	58,0	7,3	100	386 0350 138	35,0	336,0	16,8	495
386 0100 33	10,0	96,0	8,3	150	386 0500 138	50,0	480,0	18,7	655
386 0160 33	16,0	154,0	10,4	215	386 0700 138	70,0	672,0	20,7	865
386 0250 33	25,0	240,0	12,0	305	386 0950 138	95,0	912,0	22,5	1120
386 0350 33	35,0	336,0	13,2	360	386 1200 138	120,0	1152,0	24,4	1370
386 0500 33	50,0	480,0	15,5	550	386 1500 138	150,0	1440,0	26,7	1650
386 0700 33	70,0	672,0	17,5	745	386 1850 138	185,0	1776,0	28,7	1980
386 0950 33	95,0	912,0	19,9	990	386 2400 138	240,0	2304,0	30,1	2620
386 1200 33	120,0	1152,0	21,8	1280					
386 1500 33	150,0	1440,0	23,7	1500					
386 1850 33	185,0	1776,0	25,7	1845					
386 2400 33	240,0	2304,0	28,1	2455					

CC-silicone single core

Temperature resistant H05SJ-K, H05S-U, H05S-K
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 331 H05S-K CE

The halogen-free, harmonized CC-silicone single cores are due to their resistance to high temperatures particularly suitable to be used in environmental conditions where high operating temperatures as well as great temperature fluctuations occur.

Construction

H05SJ-K:

Fine strands of tinned copper wire, silicone based core insulation, Impregnated glass-fibre braiding.

H05S-K:

Fine strands of tinned copper wire, silicone based core insulation.

H05S-U:

Solid, tinned copper wire, silicone based core insulation.

Technical data

Rated voltage:

300/500 V

Test voltage:

2000 V

Conductor stranding:

H05SJ-K, H05S-K:

fine copper strands
acc. to VDE 0295, class 5

H05S-U:

Single copper wire
acc. to VDE 0295, class 1

Insulation resistance:

min. 200 MOhm × km

Temperature range:

-60°C to +180°C

Bending radius:

15 × core diameter

Approvals:

acc. to VDE 0282, part 3 resp.
HD 22.3 S3



Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
H05SJ-K:				
331 0005 ..	0,50	4,8	2,7	14
331 0007 ..	0,75	7,2	3,0	17
331 0010 ..	1,0	9,6	3,1	19
331 0015 ..	1,5	14,4	3,5	25
331 0025 ..	2,5	24,0	4,2	37
331 0040 ..	4,0	38,4	4,8	53
331 0060 ..	6,0	57,6	5,3	71
331 0100 ..	10,0	96,0	7,6	134
331 0160 ..	16,0	153,6	8,6	201
H05S-K:				
332 0005 ..	0,50	4,8	2,7	9
332 0007 ..	0,75	7,2	2,9	12
332 0010 ..	1,0	9,6	3,0	14
332 0015 ..	1,5	14,4	3,6	20
332 0025 ..	2,5	24,0	4,3	31
H05S-U:				
333 0005 ..	0,50	4,8	2,6	8
333 0007 ..	0,75	7,2	2,8	11
333 0010 ..	1,0	9,6	2,9	13
333 0015 ..	1,5	14,4	3,4	18
333 0025 ..	2,5	24,0	4,0	29

Please complete the Part-No. .. when ordering
with following specifications = colour

00 black	05 grey	10 green
01 blue	06 violet	11 beige
02 brown	07 pink	41 redbrown
03 red	08 orange	50 transparent (natural)
04 white	09 yellow	99 green/yellow

Additional colours on request

CC-silicone wires and cables SiZ, FZL-Si, FZL-Si/GL/Si



The halogen-free silicone twin cable SiZ and the ignition circuit cable FZL-Si, FZL-Si/GL/Si are due to their high resistance to high temperatures particularly suitable to be used in environmental conditions where high operating temperatures as well as great temperature fluctuations occur. To protect from mechanical stress, the FZL-Si/GL/Si has a fibre glass braiding covered with an additional silicone sheath.

Construction

SiZ:

Fine strands of tinned copper wire, silicone insulation, 2 parallel running separable cores.

FZL-Si:

Fine strands of tinned copper wire, reinforced silicone based core insulation.

FZL-Si/GL/Si:

Fine strands of tinned copper wire, reinforced silicone based core insulation, glass-fibre braiding, additional outer sheath based on silicone.

Technical data

Rated voltage:

SiZ: 300/500 V

FZL: 10 kV

Impulse peak voltage:

FZL: 20 kV

Test voltage:

SiZ: 2 kV

FZL: 20 kV

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 200 MOhm × km

Temperature range:

-60°C to +180°C

short-term: +220°C

Bending radius:

fixed installation: 6 × cable diameter
flexible application: 15 × cable diameter

Approvals:

acc. to VDE 0250, 0282

Part-No.	No. of cores + cross- section	Copper weight kg/km	Outside dimensions/ Ø approx. mm	Weight kg/km
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SiZ:				
341 0005 ..	2 × 0,50	9,6	2,1 × 4,2	16,3
341 0007 ..	2 × 0,75	14,4	2,4 × 4,8	21,5
341 0010 ..	2 × 1,0	19,2	2,5 × 5,0	27,0
341 0015 ..	2 × 1,5	28,8	2,8 × 5,8	37,0
FZL-Si:				
326 0005 ..	0,50	4,8	6,1	51
326 0007 ..	0,75	7,2	6,6	61
326 0010 ..	1,0	9,6	7,1	72
326 0015 ..	1,5	14,4	7,6	84
FZL-Si/GL/Si:				
327 0010 ..	1,0	9,6	8,0	65
327 0015 ..	1,5	14,4	8,9	88

Please complete the Part-No. .. when ordering
with following specifications = colour

00 black	05 grey	10 green
01 blue	06 violet	11 beige
02 brown	07 pink	41 redbrown
03 red	08 orange	50 transparent (natural)
04 white	09 yellow	99 green/yellow

Additional colours on request

CC-silicone cable SiHF-610

Temperature resistant silicone cable
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 610 5x2,5 SiHF CE

The CC-silicone cable SiHF-610 is suitable for use in ovens, electric motors and aircraft constructions, iron and steel works as well as in hot-rolling mills and in similar areas where high temperatures and extreme temperature fluctuations occur. The silicone outer sheath is halogen-free, flame retardant as well as resistant to UV radiation and to a large number of oil, acid and lye.

Construction

Fine tinned strands of copper wire, silicone core insulation, cores colours acc. to VDE 0293 308*, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath based on silicone. Colour redbrown.

*6 cores or more black with white numbering

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-60°C to +180°C
short-term: +220°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0250, 0282



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
610 0005 002	2 X 0,5	9,6	5,4	35	610 0025 002	2 X 2,5	48,0	9,3	135
610 0005 003	3 G 0,5	14,4	5,9	40	610 0025 003	3 G 2,5	72,0	9,8	152
610 0005 004	4 G 0,5	19,2	6,4	51	610 0025 004	4 G 2,5	96,0	10,7	188
610 0005 005	5 G 0,5	24,0	7,3	62	610 0025 005	5 G 2,5	120,0	11,7	221
					610 0025 006	6 G 2,5	144,0	12,7	269
610 0007 002	2 X 0,75	14,4	6,3	53	610 0025 007	7 G 2,5	168,0	12,7	294
610 0007 003	3 G 0,75	21,6	6,7	64	610 0025 012	12 G 2,5	288,0	17,1	509
610 0007 004	4 G 0,75	29,0	7,5	84					
610 0007 005	5 G 0,75	36,0	8,4	101	610 0040 002	2 X 4	76,8	10,8	190
610 0007 006	6 G 0,75	43,2	9,1	117	610 0040 003	3 G 4	115,2	11,5	224
610 0007 007	7 G 0,75	50,0	9,1	125	610 0040 004	4 G 4	154,0	13,1	295
					610 0040 005	5 G 4	192,0	14,4	359
610 0010 002	2 X 1,0	19,2	6,7	60	610 0040 006	6 G 4	231,0	16,1	415
610 0010 003	3 G 1,0	29,0	6,9	78	610 0040 007	7 G 4	269,0	16,1	480
610 0010 004	4 G 1,0	38,4	7,9	95					
610 0010 005	5 G 1,0	48,0	8,9	116	610 0060 002	2 X 6	116,0	13,4	274
610 0010 006	6 G 1,0	58,0	9,6	135	610 0060 003	3 G 6	173,0	14,2	339
610 0010 007	7 G 1,0	67,0	9,6	144	610 0060 004	4 G 6	230,0	16,2	442
					610 0060 005	5 G 6	288,0	17,7	535
610 0015 002	2 X 1,5	29,0	7,6	82	610 0060 007	7 G 6	403,0	19,2	686
610 0015 003	3 G 1,5	43,0	8,1	98					
610 0015 004	4 G 1,5	58,0	8,8	123	610 0100 003	3 G 10	288,0	17,8	600
610 0015 005	5 G 1,5	72,0	9,6	148	610 0100 004	4 G 10	384,0	19,9	707
610 0015 006	6 G 1,5	87,0	10,4	174	610 0100 005	5 G 10	480,0	21,4	825
610 0015 007	7 G 1,5	101,0	10,4	188					
610 0015 008	8 G 1,5	115,0	11,7	240	610 0160 004	4 G 16	614,0	23,4	988
610 0015 012	12 G 1,5	173,0	13,6	315	610 0160 005	5 G 16	768,0	26,0	1180
610 0015 016	16 G 1,5	231,0	16,2	430					
610 0015 018	18 G 1,5	259,0	17,0	506	610 0250 004	4 G 25	960,0	24,8	1481
610 0015 020	20 G 1,5	288,0	17,8	566					
610 0015 024	24 G 1,5	346,0	19,5	722					

CC-silicone cable SiHF-610

Temperature resistant silicone cable
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 610 5x2,5 cUL AWM STYLE 4389 600 V 200 °C CE

The CC-silicone cable SIHF-610 UL/CSA approved, is suitable for use in ovens, electric motors and aircraft constructions, iron and steel works as well as in hot-rolling mills and in similar areas where high temperatures and extreme temperature fluctuations occur. The silicone outer sheath is halogen-free, flame retardant as well as resistant to UV radiation and to a large number of oil, acid and lye.

Construction

Fine tinned strands of copper wire, silicone core insulation, core colours acc. to VDE 0293 308*, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath based on silicone. Colour redbrown.

*6 cores or more black with white numbering

Technical data

Rated voltage:

VDE/IEC: 300/500 V
UL/CSA: 600 V

Test voltage:

3000 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:

min. 200 MOhm × km

Temperature range:

-60°C to +180°C
short-term: +200°C

Bending radius:

15 × cable diameter

Approvals:

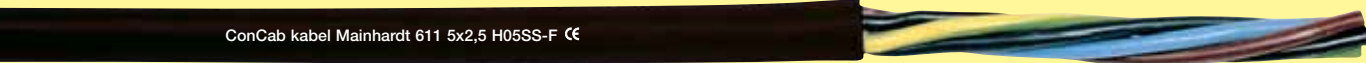
acc. to VDE 0250,0282
cUL-Style: 3529, 4476, 4389



Part-No.	No. of cores + mm ² /AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + mm ² /AWG	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
610 20 02	2 X 0,5/20	9,6	5,4	35	610 14 02	2 X 2,5/14	48,0	9,3	135
610 20 03	3 G 0,5/20	14,4	5,9	40	610 14 03	3 G 2,5/14	63,0	9,8	160
610 20 04	4 G 0,5/20	19,2	6,4	51	610 14 04	4 G 2,5/14	96,0	10,7	188
610 20 05	5 G 0,5/20	24,0	7,3	62	610 14 05	5 G 2,5/14	120,0	11,7	221
					610 14 06	6 G 2,5/14	144,0	12,7	269
610 19 02	2 X 0,75/19	14,4	6,3	53	610 14 07	7 G 2,5/14	168,0	12,7	294
610 19 03	3 G 0,75/19	21,6	6,7	64	610 14 12	12 G 2,5/14	288,0	17,1	509
610 19 04	4 G 0,75/19	29,0	7,5	84					
610 19 05	5 G 0,75/19	36,0	8,4	101	610 12 02	2 X 4/12	76,8	10,8	190
610 19 06	6 G 0,75/19	43,2	9,1	117	610 12 03	3 G 4/12	115,2	11,5	224
610 19 07	7 G 0,75/19	50,0	9,1	125	610 12 04	4 G 4/12	154,0	13,1	295
					610 12 05	5 G 4/12	192,0	14,4	359
610 18 02	2 X 1,0/18	19,2	6,7	60	610 12 06	6 G 4/12	231,0	16,1	415
610 18 03	3 G 1,0/18	29,0	6,9	78	610 12 07	7 G 4/12	269,0	16,1	480
610 18 04	4 G 1,0/18	38,4	7,9	95					
610 18 05	5 G 1,0/18	48,0	8,9	116	610 10 02	2 X 6/10	116,0	13,4	274
610 18 06	6 G 1,0/18	58,0	9,6	135	610 10 03	3 G 6/10	173,0	14,2	339
610 18 07	7 G 1,0/18	67,0	9,6	144	610 10 04	4 G 6/10	230,0	16,2	442
					610 10 05	5 G 6/10	288,0	17,7	535
610 16 02	2 X 1,5/16	29,0	7,6	82	610 10 07	7 G 6/10	403,0	19,2	686
610 16 03	3 G 1,5/16	43,0	8,1	98					
610 16 04	4 G 1,5/16	58,0	8,8	123	610 08 03	3 G 10/8	288,0	17,8	600
610 16 05	5 G 1,5/16	72,0	9,6	148	610 08 04	4 G 10/8	384,0	19,9	707
610 16 06	6 G 1,5/16	87,0	10,4	174	610 08 05	5 G 10/8	480,0	21,4	825
610 16 07	7 G 1,5/16	101,0	10,4	188					
610 16 08	8 G 1,5/16	115,0	11,7	240	610 06 04	4 G 16/6	614,0	23,4	988
610 16 12	12 G 1,5/16	173,0	13,6	315	610 06 05	5 G 16/6	768,0	26,0	1180
610 16 16	16 G 1,5/16	231,0	16,2	430					
610 16 18	18 G 1,5/16	259,0	17,0	506	610 04 04	4 G 25/4	960,0	24,8	1481
610 16 20	20 G 1,5/16	288,0	17,8	566					
610 16 24	24 G 1,5/16	346,0	19,5	722					

CC-silicone cable H05SS-F-611

Temperature resistant silicone cable acc. to ◁ HAR ▷
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 611 5x2,5 H05SS-F CE

The harmonized CC-silicone cable H05SS-F-611 is suitable for use in ovens, electric motors and aircraft construction, iron and steel works as well as in hot-rolling mills, bakeries, solariums, saunas and in similar facilities where high temperatures and extreme differences in temperature occur with improved characteristics against mechanical stress. It is furthermore ideal for permanent mechanically protected cabling for lighting in industrial applications and is resistant to a large number of oil, acid and lye.

Construction

Fine bare or tinned strands of copper wire, cross-linked silicone mixture (EI 2), core colours acc. to VDE 0293 308. 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. The outer sheath is based on cross-linked silicone mixture (EM 9), flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black. Other sheath colours are available on request.

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
Fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-60°C to +180°C
Short-term: +200°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0282, part 15
HD 22.15 S1

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
611 0007 00200	2 X 0,75	14,4	5,7 - 7,4	54
611 0007 00300	3 G 0,75	21,6	6,2 - 8,1	68
611 0007 00400	4 G 0,75	28,8	6,8 - 8,8	88
611 0007 00500	5 G 0,75	36,0	7,6 - 9,9	103
611 0010 00200	2 X 1,0	19,2	6,1 - 8,0	63
611 0010 00300	3 G 1,0	29,0	6,5 - 8,5	83
611 0010 00400	4 G 1,0	38,4	7,1 - 9,3	98
611 0010 00500	5 G 1,0	48,0	8,0 - 10,3	119
611 0015 00200	2 X 1,5	29,0	7,6 - 9,8	83
611 0015 00300	3 G 1,5	43,0	8,0 - 10,4	103
611 0015 00400	4 G 1,5	58,0	9,0 - 11,6	126
611 0015 00500	5 G 1,5	72,0	9,8 - 12,7	152
611 0025 00200	2 X 2,5	48,0	9,0 - 11,6	139
611 0025 00300	3 G 2,5	72,0	9,6 - 12,4	160
611 0025 00400	4 G 2,5	96,0	10,7 - 13,8	198
611 0025 00500	5 G 2,5	120,0	11,9 - 15,3	238
611 0040 00300	3 G 4	115,2	11,3 - 14,5	220
611 0040 00400	4 G 4	154,0	12,7 - 16,2	265
611 0060 00300	3 G 6	173,0	12,8 - 16,3	315
611 0060 00400	4 G 6	230,0	14,2 - 18,1	405



CC-silicone cable Si-C-Si-614

Temperature resistant silicone cable, shielded
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 614 2x1,5 Si-C-Si CE



The CC-silicone cable Si-C-Si-614 shielded is suitable for use in ovens, electric motors and aircraft constructions, iron and steel works as well as in hot-rolling mills, bakeries, solariums, saunas and in similar facilities where high temperatures and extreme differences in temperature occur and where there is a greater demand for electromagnetic compatibility (EMC).

Construction

Fine strands of tinned copper wire, silicone insulation, core colours acc. to VDE 0293 308*, 3 core or more with green/yellow protective conductor in the outer layer, cores twisted in layers, foil wrapping, tinned copper shield. Outer sheath based on silicone. Colour redbrown.

*6 cores or more black with white numbering

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-60°C to +180°C
Short-term: +200°C

Bending radius:
7,5 × cable diameter

Approvals:
acc. to VDE 0250, 0282



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
614 0005 002	2 X 0,5	26,0	6,4	60
614 0005 003	3 G 0,5	31,0	6,7	68
614 0005 004	4 G 0,5	36,0	7,1	76
614 0005 005	5 G 0,5	56,0	7,9	100
614 0007 002	2 X 0,75	31,0	7,0	70
614 0007 003	3 G 0,75	51,0	7,5	83
614 0007 004	4 G 0,75	63,0	8,0	84
614 0007 005	5 G 0,75	74,0	8,7	125
614 0007 006	6 G 0,75	82,0	9,3	132
614 0007 007	7 G 0,75	89,0	9,3	143
614 0010 002	2 X 1,0	48,0	7,4	88
614 0010 003	3 G 1,0	58,0	7,7	99
614 0010 004	4 G 1,0	71,0	8,3	115
614 0010 005	5 G 1,0	86,0	8,9	136
614 0010 006	6 G 1,0	100,0	9,6	153
614 0010 007	7 G 1,0	108,0	9,6	163
614 0015 002	2 X 1,5	61,0	8,2	106
614 0015 003	3 G 1,5	81,0	8,5	125
614 0015 004	4 G 1,5	96,0	9,1	145
614 0015 005	5 G 1,5	114,0	10,0	175
614 0015 006	6 G 1,5	121,0	10,8	199
614 0015 007	7 G 1,5	152,0	10,8	220
614 0015 012	12 G 1,5	241,0	14,2	342
614 0015 016	16 G 1,5	302,0	15,6	428
614 0015 018	18 G 1,5	363,0	17,0	515
614 0025 002	2 X 2,5	89,0	9,4	148
614 0025 003	3 G 2,5	114,0	9,9	172
614 0025 004	4 G 2,5	147,0	10,7	210
614 0025 005	5 G 2,5	176,0	11,6	258
614 0025 007	7 G 2,5	226,0	13,0	330

CC-silicone cable SiHF-GLS-630

Temperature resistant silicone cable with steel wire braid
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-silicone cable SiHF-GLS-630 contains a galvanized steel wire braid that affords temperature stability and an improved protection against mechanical impact. It is suitable for use in ovens, electric motors and aircraft constructions, iron and steel works as well as in hot-rolling mills and other areas where high temperatures and extreme differences in temperature occur. The cable is halogen-free, flame retardant as well as resistant to UV radiation and a large number of oil, acid and lye.

Construction

Fine strands of tinned copper wire, silicone core insulation, cores coloured acc. to VDE 0293 308*, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath based on silicone. Colour redbrown, glass-fibre braid and galvanized steel wire braid.

*6 cores or more black with white numbering

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 200 MOhm × km

Temperature range:
-60°C to +180°C
short-term: +220°C

Bending radius:
20 × cable diameter

Approvals:
acc. to VDE 0250, 0282

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Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
630 0007 002	2 X 0,75	14,4	7,5	91
630 0007 003	3 G 0,75	21,6	7,8	102
630 0007 004	4 G 0,75	29,0	8,9	130
630 0007 005	5 G 0,75	36,0	9,6	160
630 0007 006	6 G 0,75	43,2	10,3	170
630 0007 007	7 G 0,75	50,0	10,3	180
630 0010 002	2 X 1,0	19,2	7,9	98
630 0010 003	3 G 1,0	29,0	8,7	122
630 0010 004	4 G 1,0	38,4	9,3	142
630 0010 005	5 G 1,0	48,0	10,0	167
630 0010 006	6 G 1,0	58,0	10,9	188
630 0010 007	7 G 1,0	67,0	10,9	199
630 0015 002	2 X 1,5	29,0	8,8	127
630 0015 003	3 G 1,5	43,0	9,4	145
630 0015 004	4 G 1,5	58,0	10,0	173
630 0015 005	5 G 1,5	72,0	11,0	202
630 0015 006	6 G 1,5	87,0	11,7	240
630 0015 007	7 G 1,5	101,0	11,7	244
630 0015 012	12 G 1,5	173,0	15,5	328
630 0015 016	16 G 1,5	230,0	17,6	576
630 0015 018	18 G 1,5	259,0	18,4	636
630 0015 024	24 G 1,5	348,0	21,2	843
630 0015 025	25 G 1,5	360,0	21,4	865
630 0025 002	2 X 2,5	48,0	10,4	187
630 0025 003	3 G 2,5	72,0	10,9	205
630 0025 004	4 G 2,5	96,0	11,8	278
630 0025 005	5 G 2,5	120,0	12,8	323
630 0025 007	7 G 2,5	168,0	14,3	380
630 0040 003	3 G 4	115,2	12,6	311
630 0040 004	4 G 4	154,0	14,3	348
630 0040 005	5 G 4	192,0	17,4	454
630 0060 003	3 G 6	173,0	15,0	432
630 0060 004	4 G 6	230,0	17,1	545
630 0060 005	5 G 6	288,0	18,3	658
630 0100 004	4 G 10	384,0	22,0	925
630 0160 004	4 G 16	614,0	26,1	1235
630 0250 004	4 G 25	960,0	30,3	1701

CC-single core FEP/PTFE-348

Excellent temperature stability
acc. to MIL-W 16878 (metric dimensions)
Conforms to the EC low voltage guideline 73/23/EEC CE

The CC-single core FEP/PTFE-348 can be used in many fields where extreme temperatures occur. It is exceptionally resistant to oil, fat, acid, alkali and solvents. Furthermore FEP/PTFE insulated cores are light and weather resistant.

Construction

FEP:

Fine strands of bare, tinned and silver plated copper wire, FEP based core insulation, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 332-1).

PTFE:

Fine strands of bare, tinned and silver plated or nickel plated copper wire, PTFE based core insulation, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Technical data

Rated voltage:
as listed in table

Test voltage:
as listed in table

Conductor stranding:
fine copper strands
acc. VDE 0295, class 5
depending on temperature range
bare, tinned, silver-plated or nickel-plated

Conductor material:
bare: +130°C
tinned: +180°C
silver-plated: +200°C
nickel-plated: +260°C

Insulation resistance:
min. 1 GOhm \times km

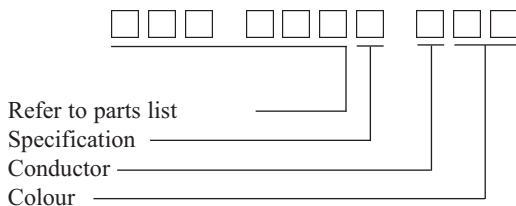
Temperature range:
FEP: -100°C to +200°C
Short-term: +230°C
PTFE: -200°C to +260°C
Short-term: +300°C

Bending radius:
10 \times core diameter

Approvals:
acc. to MIL-W 16878

Part-No.	Cross-section mm ²	Conductor stranding +Ø mm	Core diameter mm (min. - max.)		
			Rated voltage 250 V Test voltage 2500 V ET/KT	Rated voltage 600 V Test voltage 3400 V E/K	Rated voltage 1000 V Test voltage 5000 V EE/KK
348 002. ...	0,25	14 × 0,15	0,90 - 1,00	1,05 - 1,25	1,30 - 1,50
348 003. ...	0,34	7 × 0,25	1,02 - 1,12	1,17 - 1,37	1,42 - 1,63
348 005. ...	0,50	16 × 0,20	1,22 - 1,32	1,37 - 1,58	1,63 - 1,83
348 007. ...	0,75	24 × 0,20		1,65 - 1,85	1,85 - 2,05
348 010. ...	1,0	32 × 0,20		1,85 - 2,05	2,05 - 2,25
348 015. ...	1,5	30 × 0,25		2,10 - 2,30	2,30 - 2,50
348 025. ...	2,5	50 × 0,25		2,65 - 2,85	2,85 - 3,05
348 040. ...	4,0	56 × 0,30		3,30 - 3,50	3,50 - 3,70
348 060. ...	6,0	84 × 0,30		3,95 - 4,25	4,15 - 4,45
348 100. ...	10,0	80 × 0,40		5,50 - 5,80	5,80 - 6,10
348 160. ...	16,0	126 × 0,40		6,50 - 6,80	6,80 - 7,10
348 250. ...	25,0	196 × 0,40		8,30 - 8,60	8,60 - 8,90
348 350. ...	35,0	276 × 0,40		9,50 - 9,90	9,90 - 10,30
348 500. ...	50,0	392 × 0,40		11,00 - 11,40	11,40 - 11,80
348 700. ...	70,0	356 × 0,50		13,00 - 13,40	13,40 - 13,80
348 950. ...	95,0	470 × 0,50		15,85 - 16,35	16,53 - 16,85

Please complete the Part-No. 348. ...
when ordering with the following specifications:



Example:
348 015 5 100 = FEP 1,5 mm², 600 V,
Cu-silver-plated, Colour black acc. MIL-W 16878/11

Specification:

- 1 = MIL-W-16878/6 = PTFE type ET (250 V)
- 2 = MIL-W-16878/4 = PTFE type E (600 V)
- 3 = MIL-W-16878/5 = PTFE type EE (1000 V)
- 4 = MIL-W-16878/13 = FEP type KT (250 V)
- 5 = MIL-W-16878/11 = FEP type K (600 V)
- 6 = MIL-W-16878/12 = FEP type KK (1000 V)

Conductor:

- 1 = Cu silver-plated
- 2 = Cu nickel-plated
- 3 = Cu tinned
- 4 = Cu bare

Colours:

- | | | |
|----------|-----------|-----------------|
| 00 black | 05 grey | 10 green |
| 01 blue | 06 violet | 11 beige |
| 02 brown | 07 pink | 50 transparent |
| 03 red | 08 orange | 99 green/yellow |
| 04 white | 09 yellow | |

CC-single core FEP/PTFE-345

Excellent temperature stability acc. to MIL-W 16878
(AWG dimension)

Conforms to the EC low voltage guideline 73/23/EEC $\text{C}\epsilon$

The CC- single core FEP/PTFE-345 can be used in many areas where extreme temperatures occur. It is exceptionally stable to oil, fat, acid, alkali and solvents. Furthermore FEP/PTFE insulated cores are sun and weather resistant.

Construction

FEP:

Bare, tinned or silver-plated strands of copper wire, FEP core insulation, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

PTFE:

Bare, tinned, silver-plated or nickel-plated strands of copper wire, PTFE core insulation, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).

Technical data

Rated voltage:
as listed in table

Test voltage:
as listed in table

Conductor stranding:
fine copper strands acc. to AWG depending on temperature range bare, tinned, silver-plated or nickel-plated

Conductor material:
bare: +130°C
tinned: +180°C
silver-plated: +200°C
nickel-plated: +260°C

Insulation resistance:
min. 1 GOhm \times km

Temperature range:
FEP: -100°C to +200°C
short-term: +230°C
PTFE: -200°C to +260°C
short-term: +300°C

Bending radius:
10 \times core diameter

Approvals:
acc. to MIL-W 16878



Part-No.	AWG	Cross-section mm ²	Conductor stranding × Ø mm	Core diameter mm (min. - max.)		
				Rated voltage 250 V	Rated voltage 600 V	Rated voltage 1000 V
				Test voltage 2500 V ET/KT	Test voltage 3400 V E/K	Test voltage 5000 V EE/KK
345 387. ...	38/7	0,009	7 × 0,040	0,33 - 0,48	—	—
345 367. ...	36/7	0,014	7 × 0,051	0,36 - 0,51	0,56 - 0,71	—
345 347. ...	34/7	0,022	7 × 0,064	0,38 - 0,53	0,61 - 0,81	—
345 327. ...	32/7	0,034	7 × 0,080	0,48 - 0,58	0,64 - 0,84	0,89 - 1,09
345 321. ...	32/19	0,035	19 × 0,051	0,48 - 0,58	0,64 - 0,84	0,89 - 1,09
345 307. ...	30/7	0,057	7 × 0,102	0,56 - 0,66	0,71 - 0,91	0,97 - 1,17
345 301. ...	30/19	0,059	19 × 0,064	0,56 - 0,66	0,71 - 0,91	0,97 - 1,17
345 287. ...	28/7	0,089	7 × 0,127	0,64 - 0,74	0,79 - 0,99	1,04 - 1,25
345 281. ...	28/19	0,090	19 × 0,080	0,64 - 0,74	0,79 - 0,99	1,04 - 1,25
345 267. ...	26/7	0,141	7 × 0,160	0,74 - 0,84	0,89 - 1,09	1,14 - 1,35
345 261. ...	26/19	0,155	19 × 0,102	0,74 - 0,84	0,89 - 1,09	1,14 - 1,35
345 247. ...	24/7	0,227	7 × 0,203	0,86 - 0,97	1,02 - 1,22	1,27 - 1,47
345 241. ...	24/19	0,241	19 × 0,127	0,86 - 0,97	1,02 - 1,22	1,27 - 1,47
345 227. ...	22/7	0,355	7 × 0,254	1,02 - 1,12	1,17 - 1,37	1,42 - 1,63
345 221. ...	22/19	0,382	19 × 0,160	1,02 - 1,12	1,17 - 1,37	1,42 - 1,63
345 207. ...	20/7	0,563	7 × 0,320	1,22 - 1,32	1,37 - 1,58	1,63 - 1,83
345 201. ...	20/19	0,616	19 × 0,203	1,22 - 1,32	1,37 - 1,58	1,63 - 1,83
345 187. ...	18/7	0,897	7 × 0,404		1,63 - 1,88	1,88 - 2,13
345 181. ...	18/19	0,963	19 × 0,254		1,63 - 1,88	1,88 - 2,13
345 160. ...	16	1,229	19 × 0,287		1,85 - 2,21	2,11 - 2,14
345 140. ...	14	1,941	19 × 0,361		2,21 - 2,66	2,46 - 2,87
345 120. ...	12	3,085	19 × 0,455		2,69 - 3,05	2,95 - 3,35
345 100. ...	10	4,743	37 × 0,404		3,23 - 3,58	3,85 - 3,89
345 080. ...	8	8,307	133 × 0,282			5,00 - 5,51
345 060. ...	6	13,589	133 × 0,361			7,19 - 7,67
345 040. ...	4	21,594	133 × 0,455			8,79 - 9,30
345 020. ...	2	33,696	665 × 0,254			10,45 - 11,05
345 010. ...	1	42,361	836 × 0,254			11,89 - 12,40
345 000. ...	0	53,914	1064 × 0,254			13,16 - 13,67
345 001. ...	00	67,038	1323 × 0,254			14,61 - 15,22
345 002. ...	0000	106,764	2107 × 0,254			18,01 - 18,62

Please complete the Part-No. 345. ...
when ordering with the following specifications:



Refer to parts list _____
Specification _____
Conductor _____
Colour _____

Example:

345 181 3 100 = PTFE AWG 18/19, 1000 V,
Cu-silver-plated, Colour black acc. MIL-W 16878/5

Specification:

- 1 = MIL-W 16878/6 = PTFE type ET (250 V)
- 2 = MIL-W 16878/4 = PTFE type E (600 V)
- 3 = MIL-W 16878/5 = PTFE type EE (1000V)
- 4 = MIL-W 16878/13 = FEP type KT (250 V)
- 5 = MIL-W 16878/11 = FEP type K (600 V)
- 6 = MIL-W 16878/12 = FEP type KK (1000 V)

Colours:


- 00 black
- 01 blue
- 02 brown
- 03 red
- 04 white
- 05 grey
- 06 violet
- 07 pink
- 08 orange
- 09 yellow
- 10 green
- 11 beige
- 50 transparent
- 99 green/yellow

Conductor:

- 1 = Cu silver-plated
- 2 = Cu nickel-plated
- 3 = Cu tinned
- 4 = Cu bare

CC-multi core cable FEP-639

Excellent temperature stability
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 639 4x1,5 FEP CE

The CC-multi core cable FEP-639 is used in many areas where extreme temperatures occur and is exceptionally stable to oil, fat, acid, alkali and solvents. Furthermore FEP flexible cables are sun and weather resistant.

Construction

Bare, tinned or silver-plated strands of copper wire, FEP core insulation, core colours acc. to VDE 0293 308, 6 cores and more black with white numbering and green/yellow protective conductor in the outer layer. FEP outer sheath, flame retardant and self-extinguishing (acc. VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Colour black.
Other colours available on request.

Technical data

Rated voltage:
600 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
depending on temperature range bare,
tinned or silver-plated

Conductor material:
bare: +130°C
tinned: +180°C
silver-plated: +200°C

Insulation resistance:
min. 1 GOhm × km

Temperature range:
-100°C to +200°C
short-term: +230°C

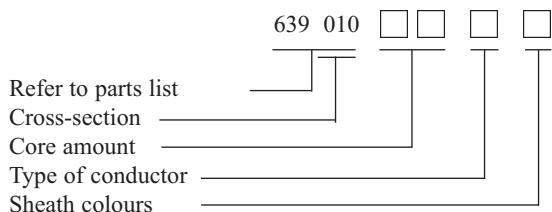
Bending radius:
15 × cable diameter

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
639 002 02 ..	2 X 0,25	5,0	3,2	18	639 025 02 ..	2 X 2,5	48,0	6,5	75
639 002 03 ..	3 G 0,25	7,5	3,4	23	639 025 03 ..	3 G 2,5	72,0	7,2	120
639 002 04 ..	4 G 0,25	10,0	3,7	27	639 025 04 ..	4 G 2,5	96,0	7,8	182
639 002 05 ..	5 G 0,25	12,5	4,1	34	639 025 05 ..	5 G 2,5	120,0	8,6	205
639 005 02 ..	2 X 0,5	9,8	3,8	21	639 025 07 ..	7 G 2,5	168,0	9,7	260
639 005 03 ..	3 G 0,5	14,7	4,0	32	639 040 02 ..	2 X 4	77,0	8,0	129
639 005 04 ..	4 G 0,5	19,6	4,5	44	639 040 03 ..	3 G 4	115,2	8,6	172
639 005 05 ..	5 G 0,5	24,5	5,1	50	639 040 04 ..	4 G 4	154,0	9,7	215
639 007 02 ..	2 X 0,75	14,4	4,5	31	639 040 05 ..	5 G 4	192,0	10,7	270
639 007 03 ..	3 G 0,75	21,6	4,8	46	639 060 02 ..	2 X 6	115,2	9,5	210
639 007 04 ..	4 G 0,75	29,0	5,2	58	639 060 03 ..	3 G 6	173,0	10,2	285
639 007 05 ..	5 G 0,75	36,0	5,8	69	639 060 04 ..	4 G 6	230,0	11,2	340
639 010 02 ..	2 X 1,0	19,2	4,9	42					
639 010 03 ..	3 G 1,0	29,0	5,2	55					
639 010 04 ..	4 G 1,0	38,4	5,7	70					
639 010 05 ..	5 G 1,0	48,0	6,1	89					
639 015 02 ..	2 X 1,5	29,0	5,4	53					
639 015 03 ..	3 G 1,5	43,0	5,8	70					
639 015 04 ..	4 G 1,5	58,0	6,3	98					
639 015 05 ..	5 G 1,5	72,0	7,1	117					
639 015 07 ..	7 G 1,5	101,0	7,8	184					
639 015 12 ..	12 G 1,5	173,0	10,6	310					

Please complete the Part-No. 639. ...
when ordering with the following specifications:



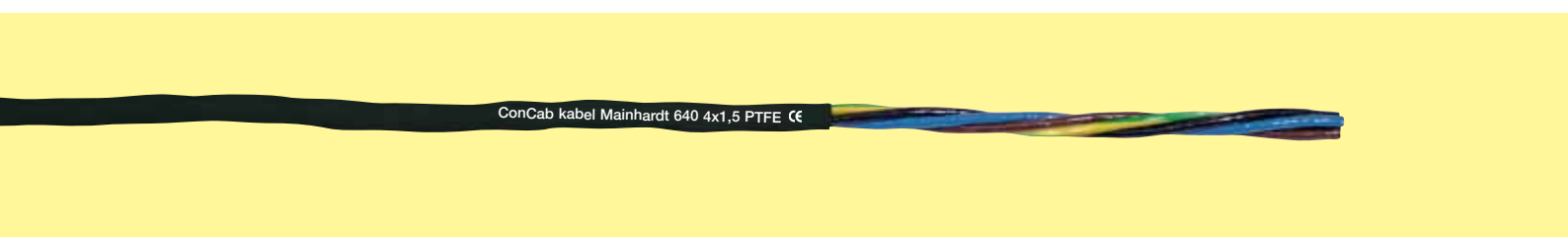
Conductor:
 1 = Cu silver-plated
 2 = Cu nickel-plated
 3 = Cu tinned
 4 = Cu bare

Sheath colours:
 0 = black
 1 = blue
 2 = brown
 3 = red
 4 = white
 5 = grey

Example:
 639 010 0410 = 4 G 1,0 Cu silver-plated, colour black

CC-multi core cable PTFE-640

Excellent temperature stability
Conforms to the EC low voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 640 4x1,5 PTFE CE

The CC-multi core cable PTFE-640 is used in many areas where extreme temperatures occur and is exceptionally stable to oil, fat, acid, alkali and solvents. Furthermore PTFE flexible cables are sun and weather resistant.

Construction

Bare, tinned, silver-plated or nickel-plated strands of copper wire, PTFE core insulation, core colours acc. to VDE 0293 308, 6 cores or more black with white numbering and green/yellow protective conductor in the outer layer. PTFE outer sheath, flame retardant and self-extinguishing (acc. VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black. Other colours available on request.

Technical data

Rated voltage:
600 V

Test voltage:
2500 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5
depending on temperature range
bare, tinned, silver-plated, or nickel-plated

Conductor material:
bare: +130°C
tinned: +180°C
silver-plated: +200°C
nickel-plated: +260°C

Insulation resistance:
min. 1 GOhm × km

Temperature range:
-200°C to +260°C
short-term: +300°C

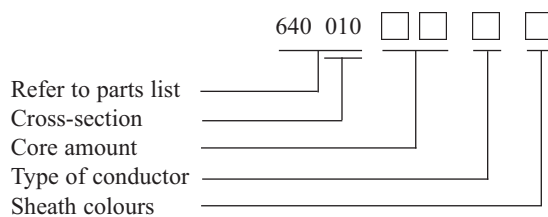
Bending radius:
15 × cable diameter

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
640 007 02 ..	2 X 0,75	14,4	4,5	31
640 007 03 ..	3 G 0,75	21,6	4,8	46
640 007 05 ..	5 G 0,75	36,0	5,8	69
640 010 02 ..	2 X 1,0	19,2	4,9	42
640 010 03 ..	3 G 1,0	29,0	5,2	55
640 010 04 ..	4 G 1,0	38,4	5,7	70
640 015 02 ..	2 X 1,5	29,0	5,4	53
640 015 03 ..	3 G 1,5	43,0	5,8	70
640 015 04 ..	4 G 1,5	58,0	6,3	98
640 015 05 ..	5 G 1,5	72,0	7,1	117
640 015 07 ..	7 G 1,5	101,0	7,8	184
640 015 12 ..	12 G 1,5	173,0	10,6	310
640 025 02 ..	2 X 2,5	48,0	6,5	75
640 025 03 ..	3 G 2,5	72,0	7,2	120
640 025 04 ..	4 G 2,5	96,0	7,8	182
640 025 05 ..	5 G 2,5	120,0	8,6	205
640 025 07 ..	7 G 2,5	168,0	9,7	260
640 040 02 ..	2 X 4	77,0	8,0	129
640 040 03 ..	3 G 4	115,2	8,6	172
640 040 04 ..	4 G 4	154,0	9,7	215
640 040 05 ..	5 G 4	192,0	10,7	270
640 060 02 ..	2 X 6	115,2	9,5	210
640 060 03 ..	3 G 6	173,0	10,2	285
640 060 04 ..	4 G 6	230,0	11,2	340

Please complete the Part-No. 640. ...
when ordering with the following specifications:



**Conductor:
colours:**

- 1 = Cu silver-plated
- 2 = Cu nickel-plated
- 3 = Cu tinned
- 4 = Cu bare

Sheath

- 0 = black
- 1 = blue
- 2 = brown
- 3 = red
- 4 = white
- 5 = grey

Example:

640 010 0303 = 3 G 1,0 Cu tinned, colour black

CC-Nonflam single core-329

Halogen-free, excellent temperature stability up to 450°C
Conforms to the EC low voltage guideline 73/23/EEC CE

The CC-Nonflam single core-329 is excellent for wiring equipment in areas with extremely high temperatures. This is necessary in the installation of radiators, household heating appliances as well as in heavy industries like foundries, steel melting furnaces, glass production and in all other kinds of steel works.

Construction

Fine strands of nickel wires,
multilayered fibre glass insulation
covered with mineral impregnated braiding,
halogen-free. Colour grey.
Other colours are available on request

Part-No.	Cross-section	Outer diameter approx. mm	Weight kg/km
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Pure nickel strands			
329 0002 05	0,25	2,2	6,5
329 0005 05	0,50	2,5	8,7
329 0007 05	0,75	2,7	11,9
329 0010 05	1,0	3,2	14,5
329 0015 05	1,5	3,4	20,5
329 0025 05	2,5	4,0	32,2
329 0040 05	4,0	4,5	50,1
329 0060 05	6,0	5,3	72,3
329 0100 05	10,0	8,0	130,0
329 0160 05	16,0	9,4	206,0
329 0250 05	25,0	10,6	323,0
329 0350 05	35,0	13,4	423,0
329 0500 05	50,0	14,0	590,0

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine strands of pure nickel

Temperature range:
-60°C to +450°C
short-term: +600°C

CC-Nonflam single core-328

Halogen-free, excellent temperature stability up to 1400°C
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-Nonflam single core-328 is excellent for wiring equipment in areas with extremely high temperatures up to 1400 °C (peak). This is necessary in the installation of electric circuits in high-risk environments as well as in heavy industries like foundries, steel melting furnaces, glass production and in all other kinds of steel works.

Construction

Fine strands of nickel wires, multilayered fibre glass insulation covered with mineral impregnated borosilico-aluminate fibre braiding, halogen-free.
Colour white.
Optional stainless steel outer braiding.

Part-No.	Cross-section	Outer diameter approx. mm	Weight kg/km
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Pure nickel strands			
328 0005 03	0,50	2,4	12,0
328 0007 03	0,75	2,7	16,0
328 0010 03	1,0	2,9	19,5
328 0015 03	1,5	3,3	26,5
328 0025 03	2,5	4,0	37,5
328 0040 03	4,0	4,5	55,0
328 0060 03	6,0	5,3	82,0
328 0100 03	10,0	8,0	150,0
328 0160 03	16,0	9,3	240,0
328 0250 03	25,0	10,6	372,0
328 0350 03	35,0	13,4	468,0
328 0500 03	50,0	14,2	674,0

Technical data

Rated voltage:
up to 600/1000 V

Test voltage:
2500 V

Conductor stranding:
fine strands of pure nickel

Temperature range:
-150°C to +1100°C
short-term: +1400°C

CC-Nonflam multi core cable-629

Halogen-free, excellent temperature stability up to 450°C
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-Nonflam multi core cable-629 is excellent for cabling equipment in areas with extremely high temperatures. This is necessary in the installation of radiators, household heating appliances as well as in heavy industries like foundries, steel melting furnaces, glass production and in all other kinds of steel works.

Construction

Fine strands of nickel-plated copper wire or pure nickel wires, multilayered fibre glass insulation covered with mineral impregnated braiding, cores twisted in layers. Sheath impregnated mineral fibre braiding, halogen-free. Colour grey. Other colours are available on request.

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
fine nickel-plated copper or
fine pure nickel strands

Temperature range:
-60°C to +450°C
short-term: +600°C



Part-No.	No. of cores + cross-section	Copper kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Outer diameter approx. mm	Weight kg/km	
Nickel-plated copper strands					Pure nickel strands				
629 0005 002 0	2 × 0,5	9,6	6,2	44	629 0005 002 1	2 × 0,5	6,2	44	
629 0005 003 0	3 × 0,5	14,4	6,4	50	629 0005 003 1	3 × 0,5	6,4	50	
629 0005 004 0	4 × 0,5	19,2	7,4	66	629 0005 004 1	4 × 0,5	7,4	66	
629 0005 005 0	5 × 0,5	24,0	8,1	78	629 0005 005 1	5 × 0,5	8,1	78	
629 0005 006 0	6 × 0,5	28,8	8,7	92	629 0005 006 1	6 × 0,5	8,4	92	
629 0005 007 0	7 × 0,5	34,0	8,7	98	629 0005 007 1	7 × 0,5	8,7	98	
629 0007 002 0	2 × 0,75	14,4	6,7	51	629 0007 002 1	2 × 0,75	6,7	51	
629 0007 003 0	3 × 0,75	21,6	7,1	62	629 0007 003 1	3 × 0,75	7,1	62	
629 0007 004 0	4 × 0,75	29,0	8,1	80	629 0007 004 1	4 × 0,75	8,1	80	
629 0007 005 0	5 × 0,75	36,0	8,8	97	629 0007 005 1	5 × 0,75	8,8	97	
629 0007 006 0	6 × 0,75	43,2	9,5	112	629 0007 006 1	6 × 0,75	9,5	112	
629 0007 007 0	7 × 0,75	50,0	9,5	120	629 0007 007 1	7 × 0,75	9,5	120	
629 0010 002 0	2 × 1,0	19,2	6,9	58	629 0010 002 1	2 × 1,0	6,9	58	
629 0010 003 0	3 × 1,0	29,0	7,7	72	629 0010 003 1	3 × 1,0	7,7	72	
629 0010 004 0	4 × 1,0	38,4	8,3	90	629 0010 004 1	4 × 1,0	8,3	90	
629 0010 005 0	5 × 1,0	48,0	9,1	106	629 0010 005 1	5 × 1,0	9,1	106	
629 0010 006 0	6 × 1,0	57,6	9,8	123	629 0010 006 1	6 × 1,0	9,8	123	
629 0010 007 0	7 × 1,0	67,0	9,8	132	629 0010 007 1	7 × 1,0	9,8	132	
629 0015 002 0	2 × 1,5	29,0	7,9	79	629 0015 002 1	2 × 1,5	7,9	79	
629 0015 003 0	3 × 1,5	43,0	8,3	94	629 0015 003 1	3 × 1,5	8,3	94	
629 0015 004 0	4 × 1,5	58,0	9,1	119	629 0015 004 1	4 × 1,5	9,1	119	
629 0015 005 0	5 × 1,5	72,0	9,9	141	629 0015 005 1	5 × 1,5	9,9	141	
629 0015 006 0	6 × 1,5	87,0	10,7	166	629 0015 006 1	6 × 1,5	10,7	166	
629 0015 007 0	7 × 1,5	101,0	10,7	180	629 0015 007 1	7 × 1,5	10,7	180	
629 0025 002 0	2 × 2,5	48,0	9,2	112	629 0025 002 1	2 × 2,5	9,2	112	
629 0025 003 0	3 × 2,5	72,0	9,7	125	629 0025 003 1	3 × 2,5	9,7	125	
629 0025 004 0	4 × 2,5	96,0	10,6	161	629 0025 004 1	4 × 2,5	10,6	161	
629 0025 005 0	5 × 2,5	120,0	11,6	195	629 0025 005 1	5 × 2,5	11,6	195	
629 0025 006 0	6 × 2,5	144,0	12,6	231	629 0025 006 1	6 × 2,5	12,6	231	
629 0025 007 0	7 × 2,5	168,0	12,6	266	629 0025 007 1	7 × 2,5	12,6	266	

CC-Nonflam multi core cable-628

Halogen-free excellent temperature stability up to 1400°C
Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-Nonflam multi core cable-628 is excellent for cabling equipment in areas with extremely high temperatures up to 1400°C (peak). This is necessary in the installation of electric circuits in high-risk environments as well as in heavy industries like foundries, steel melting furnaces, glass production and in all other kinds of steel works.

Construction

Fine strands of nickel wires, multilayered fibre glass insulation covered with mineral impregnated borosilico-aluminate fibre braiding, cores twisted in layers. Sheath out of impregnated mineral fibre braiding. Colour grey. Optional stainless steel outer shielding.

Technical data

Rated voltage:
up to 600/1000 V

Test voltage:
2500 V

Conductor stranding:
fine strands of pure nickel

Temperature range:
-150°C to +1100°C
short-term: +1400°C



Power cable



CC-power cable NYY-J-802

0,6/1kV

Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-power cable NYY-J-802 is designed to be laid in power supply networks over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable is suitable to be laid in water and underground. It is stable to UV radiation.

Construction

Bare, solid or multiple strands of copper wires, PVC core insulation, core colours acc. to VDE 0293 308, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
single or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0276, part 603

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NYJ-J				
802 0015 003	3 G 1,5 RE	43,0	12,0	230
802 0015 004	4 G 1,5 RE	58,0	13,0	260
802 0015 005	5 G 1,5 RE	72,0	14,0	300
802 0015 007	7 G 1,5 RE	101,0	15,0	360
802 0015 010	10 G 1,5 RE	144,0	18,0	520
802 0015 012	12 G 1,5 RE	173,0	19,0	560
802 0015 014	14 G 1,5 RE	202,0	20,0	620
802 0015 016	16 G 1,5 RE	230,0	21,0	690
802 0015 019	19 G 1,5 RE	274,0	22,0	760
802 0015 021	21 G 1,5 RE	302,0	22,0	830
802 0015 024	24 G 1,5 RE	346,0	24,0	950
802 0015 030	30 G 1,5 RE	432,0	26,0	1100
802 0015 040	40 G 1,5 RE	576,0	28,0	1350
802 0015 052	52 G 1,5 RE	749,0	31,0	1450
802 0015 061	61 G 1,5 RE	878,0	33,0	1680
802 0025 003	3 G 2,5 RE	72,0	13,0	280
802 0025 004	4 G 2,5 RE	96,0	14,0	320
802 0025 005	5 G 2,5 RE	120,0	15,0	365
802 0025 007	7 G 2,5 RE	168,0	16,0	450
802 0025 010	10 G 2,5 RE	240,0	20,0	630
802 0025 012	12 G 2,5 RE	288,0	20,0	680
802 0025 014	14 G 2,5 RE	336,0	21,0	790
802 0025 016	16 G 2,5 RE	384,0	22,0	870
802 0025 019	19 G 2,5 RE	456,0	23,0	990
802 0025 021	21 G 2,5 RE	504,0	24,0	1050
802 0025 024	24 G 2,5 RE	576,0	26,0	1400
802 0025 030	30 G 2,5 RE	720,0	28,0	1450
802 0025 040	40 G 2,5 RE	960,0	31,0	1800
802 0025 052	52 G 2,5 RE	1248,0	35,0	2250
802 0040 003	3 G 4 RE	115,0	16,0	410
802 0040 004	4 G 4 RE	154,0	17,0	480
802 0040 005	5 G 4 RE	192,0	18,0	550
802 0040 007	7 G 4 RE	269,0	19,0	670
802 0060 003	3 G 6 RE	173,0	16,0	460
802 0060 004	4 G 6 RE	230,0	18,0	590
802 0060 005	5 G 6 RE	288,0	19,0	680
802 0060 007	7 G 6 RE	403,0	21,0	850
802 0100 001	1 G 10 RE	96,0	9,0	190
802 0100 003	3 G 10 RE	288,0	18,0	660
802 0100 004	4 G 10 RE	384,0	20,0	790
802 0100 005	5 G 10 RE	480,0	21,0	930
802 0100 007	7 G 10 RE	672,0	23,0	1200
802 0160 001	1 G 16 RE	154,0	10,0	260
802 0160 003	3 G 16 RE	461,0	20,0	900

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NYJ-J				
802 0160 004	4 G 16 RE	614,0	22,0	1100
802 0160 005	5 G 16 RE	768,0	24,0	1300
802 0250 001	1G 25 RM	240,0	13,0	380
802 0250 003	3 G 25 RM	720,0	26,0	1350
803 0250 003	3 G 25 RM/16 RE	874,0	26,0	1350
802 0250 004	4 G 25 RM	960,0	27,0	1650
802 0250 005	5 G 25 RM	1200,0	30,0	2050
802 0350 001	1 G 35 RM	336,0	14,0	490
802 0350 003	3 G 35 SM	1008,0	23,0	1350
803 0350 003	3 G 35 SM/16 RE	1162,0	26,0	1750
802 0350 004	4 G 35 RM	1344,0	30,0	2160
802 0350 005	5 G 35 RM	1680,0	32,0	2600
802 0500 001	1 G 50 RM	480,0	15,0	650
802 0500 003	3 G 50 SM	1440,0	26,0	1800
803 0500 003	3 G 50 SM/25 RM	1680,0	31,0	2450
802 0500 004	4 G 50 SM	1920,0	30,0	2350
802 0700 001	1 G 70 RM	672,0	16,0	860
802 0700 003	3 G 70 SM	2016,0	30,0	2450
803 0700 003	3 G 70 SM/35 SM	2352,0	32,0	2900
802 0700 004	4 G 70 SM	2688,0	33,0	3250
802 0950 001	1 G 95 RM	912,0	19,0	1150
802 0950 003	3 G 95 SM	2736,0	34,0	3350
803 0950 003	3 G 95 SM/50 SM	3216,0	37,0	3900
802 0950 004	4 G 95 SM	3648,0	38,0	4400
802 1200 001	1 G 120 RM	1152,0	20,0	1400
802 1200 003	3 G 120 SM	3456,0	36,0	4100
803 1200 003	3 G 120 SM/70 SM	4128,0	40,0	4900
802 1200 004	4 G 120 SM	4608,0	42,0	5450
802 1500 001	1 G 150 RM	1440,0	22,0	1700
802 1500 003	3 G 150 SM	4320,0	40,0	5000
803 1500 003	3 G 150 SM/70 SM	4992,0	44,0	5800
802 1500 004	4 G 150 SM	5760,0	47,0	6550
802 1850 001	1 G 185 RM	1776,0	24,0	2100
802 1850 003	3 G 185 SM	5328,0	45,0	6250
803 1850 003	3 G 185 SM/95 SM	6240,0	49,0	7300
802 1850 004	4 G 185 SM	7104,0	51,0	8200
802 2400 001	1 G 240 RM	2306,0	27,0	2650
802 2400 003	3 G 240 SM	6912,0	51,0	8050
803 2400 003	3 G 240 SM/120 SM	8064,0	55,0	9400
802 2400 004	4 G 240 SM	9216,0	58,0	10650

Conductor markings RE, RM, SM refer to technical appendix

CC-power cable NYY-O-804

0.6/1kV

Conforms to the EC low voltage guideline 73/23/EEC $\text{\textcircled{C}}$



The CC-power cable NYY-O-804 is designed to be laid in power supply networks over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable is suitable to be laid in water and underground. It is stable to UV radiation.

Construction

Bare, solid or multiple strands of copper, PVC core insulation, core colours acc. to VDE 0293 308, cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm \times km

Temperature range:
fixed installation: -40°C to $+70^{\circ}\text{C}$

Bending radius:
fixed installation: $12 \times$ cable diameter

Approvals:
acc. to VDE 0276, part 603



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NY-Y-O				
804 0015 002	2 X 1,5 RE	29,0	12,0	210
804 0015 003	3 X 1,5 RE	43,0	12,0	205
804 0015 004	4 X 1,5 RE	60,0	13,0	240
804 0015 005	5 X 1,5 RE	72,0	14,0	270
804 0015 007	7 X 1,5 RE	101,0	15,0	360
804 0025 002	2 X 2,5 RE	48,0	12,0	250
804 0025 003	3 X 2,5 RE	72,0	13,0	265
804 0025 004	4 X 2,5 RE	98,0	14,0	295
804 0025 005	5 X 2,5 RE	120,0	15,0	360
804 0040 001	1 X 4 RE	38,0	8,0	120
804 0040 002	2 X 4 RE	77,0	15,0	360
804 0040 003	3 X 4 RE	115,0	15,0	325
804 0040 004	4 X 4 RE	154,0	17,0	480
804 0060 001	1 X 6 RE	58,0	9,0	155
804 0060 002	2 X 6 RE	115,0	15,0	400
804 0060 003	3 X 6 RE	174,0	16,0	435
804 0060 004	4 X 6 RE	230,0	18,0	590
804 0100 001	1 X 10 RE	96,0	9,0	190
804 0100 002	2 X 10 RE	192,0	17,0	560
804 0100 003	3 X 10 RE	288,0	18,0	485
804 0100 004	4 X 10 RE	384,0	20,0	790
804 0160 001	1 X 16 RE	154,0	10,0	260
804 0160 002	2 X 16 RE	307,0	19,0	750
804 0160 003	3 X 16 RE	462,0	20,0	820
804 0160 004	4 X 16 RE	614,0	22,0	1100
804 0250 001	1 X 25 RM	240,0	13,0	380
804 0250 002	2 X 25 RM	480,0	24,0	1150
804 0250 004	4 X 25 RM	960,0	27,0	1650

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NY-Y-O				
804 0350 001	1 X 35 RM	336,0	14,0	490
804 0350 004	4 X 35 RM	1344,0	30,0	2160
804 0500 001	1 X 50 RM	480,0	15,0	650
804 0500 004	4 X 50 SM	1920,0	30,0	2350
804 0700 001	1 X 70 RM	672,0	16,0	860
804 0700 004	4 X 70 SM	2688,0	33,0	3250
804 0950 001	1 X 95 RM	912,0	19,0	1150
804 0950 004	4 X 95 SM	3648,0	38,0	4400
804 1200 001	1 X 120 RM	1152,0	20,0	1400
804 1200 004	4 X 120 SM	4608,0	42,0	5450
804 1500 001	1 X 150 RM	1440,0	22,0	1700
804 1500 004	4 X 150 SM	5760,0	47,0	6550
804 1850 001	1 X 185 RM	1776,0	24,0	2100
804 1850 004	4 X 185 SM	7110,0	53,0	9050
804 2400 001	1 X 240 RM	2304,0	27,0	2650
804 2400 004	4 X 240 SM	9220,0	60,0	11380
804 3000 001	1 X 300 RM	2880,0	30,0	3300
804 4000 001	1 X 400 RM	3840,0	35,0	4200
804 5000 001	1 X 500 RM	4800,0	38,0	5200

Conductor markings RE, RM, SM refer to technical appendix

CC-power cable NYCY-820

0.6/1kV



Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 820 3x1,5/1,5 NYCY CE

The CC-power cable NYCY-820 is designed to be laid in power supply networks over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable is suitable to be laid in water. It is stable to UV radiation. Furthermore, this cable is ideal to be used where increased mechanical protection is required resp. protection against touch voltage. The concentric copper conductor serves as a shield and can be used as a neutral conductor (N) or protective conductor (PR/PEN) but not as an outside conductor.

Construction

Solid bare copper wire, PVC core insulation, core colours acc. to VDE 0293 308, cores twisted in layers. PVC filling inner sheath, concentric bare copper shield and copper tape PVC outer sheath, flame retardant and self-extinguishing (acc. to VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid copper wire
acc. to VDE 0295, class 1

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0276, part 603

Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
820 0015 002	2 X 1,5 RE/1,5	52,0	13,0	245
820 0015 003	3 X 1,5 RE/1,5	66,0	14,0	290
820 0015 004	4 X 1,5 RE/1,5	81,0	15,0	330
820 0015 007	7 X 1,5 RE/2,5	133,0	17,0	440
820 0015 010	10 X 1,5 RE/2,5	176,0	19,0	550
820 0015 012	12 X 1,5 RE/2,5	205,0	20,0	620
820 0015 014	14 X 1,5 RE/2,5	235,0	21,0	680
820 0015 019	19 X 1,5 RE/4	320,0	23,0	840
820 0015 024	24 X 1,5 RE/6	415,0	26,0	1030
820 0015 030	30 X 1,5 RE/6	500,0	27,0	1180
820 0015 040	40 X 1,5 RE/10	696,0	30,0	1500
820 0025 002	2 X 2,5 RE/2,5	80,0	14,0	310
820 0025 003	3 X 2,5 RE/2,5	105,0	15,0	350
820 0025 004	4 X 2,5 RE/2,5	128,0	16,0	410
820 0025 007	7 X 2,5 RE/2,5	200,0	18,0	540
820 0025 010	10 X 2,5 RE/4	286,0	21,0	730
820 0025 012	12 X 2,5 RE/4	334,0	22,0	800
820 0025 014	14 X 2,5 RE/6	403,0	23,0	900
820 0025 019	19 X 2,5 RE/6	523,0	25,0	1090
820 0025 024	24 X 2,5 RE/10	696,0	28,0	1370
820 0025 030	30 X 2,5 RE/10	840,0	30,0	1580
820 0025 040	40 X 2,5 RE/10	1080,0	33,0	1970
820 0040 003	3 X 4 RE/4	161,0	16,0	480
820 0040 004	4 X 4 RE/4	200,0	18,0	550
820 0060 003	3 X 6 RE/6	240,0	18,0	590
820 0060 004	4 X 6 RE/6	297,0	19,0	690

Conductor markings RE, RM, SM refer to technical appendix



CC-power cable NYCWY-810

0.6/1kV

Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-power cable NYCWY-810 is designed to be laid in power supply networks over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable is suitable to be laid under water. It is stable to UV radiation. Furthermore, this cable is ideal to be used where increased mechanical protection is required resp. protection against touch voltage. The concentric ceander-copper conductor serves as a shield and can be used as a neutral conductor (N) or protective conductor (PR/PEN) but not as an outside conductor.

Construction

Bare, solid or multiple strands of copper wire, PVC core insulation, core colours acc. to VDE 0293 308. PVC filling inner sheath, bare concentric ceander copper wire shield with copper tape PVC outer sheath, flame retardant and self-extinguishing (acc. VDE 0482 part 265-2-1 resp. EN50265-2-1 and IEC 60332-1). Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0276, part 603

ConCab kabel connects the world



Part-No.	No. of cores + cross- section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
810 0100 002	2 X 10 RE/10	312,0	19,0	680
810 0100 003	3 X 10 RE/10	408,0	20,0	780
810 0100 004	4 X 10 RE/10	504,0	21,0	910
810 0160 003	3 X 16 RE/16	643,0	22,0	1100
810 0160 004	4 X 16 RE/16	796,0	24,0	1250
810 0250 003	3 X 25 RM/25	1003,0	27,0	1650
810 0250 004	4 X 25 RM/16	1142,0	29,0	1850
810 0350 003	3 X 35 SM/16	1190,0	26,0	1170
810 0350 0031	3 X 35 SM/35	1402,0	27,0	1990
810 0350 004	4 X 35 SM/16	1526,0	29,0	2150
810 0500 003	3 X 50 SM/25	1723,0	30,0	2300
810 0500 0031	3 X 50 SM/50	2000,0	31,0	2500
810 0500 004	4 X 50 SM/25	2203,0	34,0	2950
810 0700 003	3 X 70 SM/35	2410,0	34,0	3150
810 0700 0031	3 X 70 SM/70	2796,0	34,0	3500
810 0700 004	4 X 70 SM35	3082,0	38,0	3950
810 0950 003	3 X 95 SM/50	3296,0	39,0	4200
810 0950 0031	3 X 95 SM/95	3791,0	39,0	4700
810 0950 004	4 X 95 SM/50	4208,0	43,0	5300
810 1200 004	4 X 120 SM/70	5388,0	47,0	6650
810 1500 004	4 X 150 SM/70	6540,0	51,0	7950
810 1850 004	4 X 185 SM/95	8159,0	57,0	9900

Conductor markings RE, RM, SM refer to technical appendix

CC-installation cable NYM-J-808 NYM-O-807

Conforms to the EC low voltage guideline 73/23/EEC CE



The CC-installation cable NYM-J-808 and NYM-O-807 is designed to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be used outdoors provided it is protected from direct sunlight.

Construction

Bare, solid or multiple strands of copper wire, PVC based core insulation, core colours acc. to VDE 0293 308. With NYM-J as of 3 cores with green/yellow protective conductor in the outer layer, cores twisted in layers. PVC outer sheath, flame retardant and self-extinguishing (acc. VDE 0482 part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1). Colour grey.

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 20 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter

Approvals:
acc. to VDE 0250, part 204

ConCab kabel connects the world



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NYM-J				
808 0015 001	1 G 1,5 RE	14,4	5,5	47
808 0015 003	3 G 1,5 RE	43,0	8,8	131
808 0015 004	4 G 1,5 RE	58,0	9,6	155
808 0015 005	5 G 1,5 RE	72,0	10,2	182
808 0015 007	7 G 1,5 RE	101,0	11,0	224
808 0015 010	10 G 1,5 RM*	144,0	13,3	333
808 0015 012	12 G 1,5 RM*	173,0	14,0	423
808 0025 001	1 G 2,5 RE	24,0	6,0	61
808 0025 003	3 G 2,5 RE	72,0	10,0	181
808 0025 004	4 G 2,5 RE	96,0	11,0	225
808 0025 005	5 G 2,5 RE	120,0	11,7	259
808 0025 007	7 G 2,5 RE	168,0	13,0	331
808 0040 001	1 G 4 RE	38,0	6,8	83
808 0040 003	3 G 4 RE	115,0	11,7	258
808 0040 004	4 G 4 RE	154,0	12,9	322
808 0040 005	5 G 4 RE	192,0	14,2	390
808 0060 001	1 G 6 RE	58,0	7,2	107
808 0060 003	3 G 6 RE	173,0	13,2	354
808 0060 004	4 G 6 RE	230,0	14,5	444
808 0060 005	5 G 6 RE	288,0	15,5	518
808 0100 001	1 G 10 RE	96,0	8,5	158
808 0100 003	3 G 10 RE	288,0	16,2	552
808 0100 004	4 G 10 RE	384,0	17,2	656
808 0100 005	5 G 10 RE	480,0	18,9	799
808 0160 001	1 G 16 RM	154,0	10,0	232
808 0160 004	4 G 16 RM	614,0	20,9	1002
808 0160 005	5 G 16 RM	768,0	23,4	1244
808 0250 001	1 G 25 RM*	240,0	12,2	240
808 0250 004	4 G 25 RM	960,0	26,0	1570
808 0250 005	5 G 25 RM	1200,0	28,8,0	1930
808 0350 004	4 G 35 RM	1344,0	29,0	2092

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NYM-O				
807 0015 001	1 X 1,5 RE	14,4	5,5	47
807 0015 002	2 X 1,5 RE	29,0	8,5	119
807 0015 003	3 X 1,5 RE	43,0	8,8	131
807 0015 004	4 X 1,5 RE	58,0	9,6	155
807 0015 007	7 X 1,5 RE	101,0	11,0	224
807 0025 001	1 X 2,5 RE	24,0	6,0	61
807 0025 002	2 X 2,5 RE	48,0	9,7	157
807 0025 003	3 X 2,5 RE	72,0	10,0	181
807 0025 004	4 X 2,5 RE	96,0	11,0	225
807 0025 005	5 X 2,5 RE	120,0	11,7	259
807 0025 007	7 X 2,5 RE	168,0	13,0	331
807 0040 001	1 X 4 RE	38,0	6,8	83
807 0060 001	1 X 6 RE	58,0	7,2	107
807 0060 004	4 X 6 RE	230,0	14,5	444
807 0100 001	1 X 10 RE	96,0	8,5	158
807 0100 004	4 X 10 RE	384,0	17,2	656
807 0160 001	1 X 16 RM	154,0	10,0	232
807 0160 004	4 X 16 RM	614,0	20,9	1002
807 0250 004	4 X 25 RM	960,0	26,0	1570
807 0350 004	4 X 35 RM	1344,0	29,0	2092

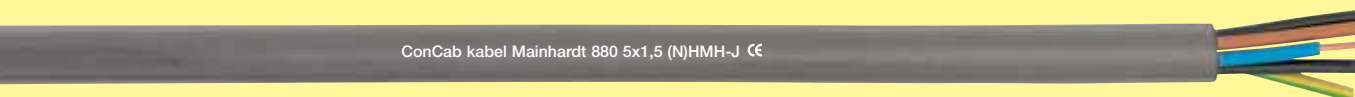
* acc. to VDE 0250, part 204

Conductor markings RE, RM, SM refer to technical appendix

CC-installation cable (N)HMH-J-880 and (N)HMH-O-881

Halogen-free

Conforms to the EC low voltage guideline 73/23/EEC CE



The halogen-free CC-installation cable (N)HMH-J-880 and (N)HMH-O-881 are used primarily in buildings where there is a demand for increased protection for humans and goods as in the event of fire it exudes hardly any smoky gases and causes no corrosion. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be used on outside walls provided it is protected from direct sunlight.

Construction

Bare, solid or multiple strands of copper wire, halogen-free polymer based core insulation acc. to VDE 0207, core colours acc. to VDE 0293 308. With (N)HMH-J 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath flame retardant halogen-free polymer mixture (acc. to IEC 60332-3).
Colour grey.

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter

Approvals:
acc. to VDE 0250,
part 215 (design)



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
(N)HMH-J				
880 0015 003	3 G 1,5	43,0	8,8	131
880 0015 004	4 G 1,5	58,0	9,6	155
880 0015 005	5 G 1,5	72,0	10,2	182
880 0015 007	7 G 1,5	101,0	11,0	224
880 0025 003	3 G 2,5	72,0	10,0	181
880 0025 004	4 G 2,5	96,0	11,0	225
880 0025 005	5 G 2,5	120,0	11,7	259
880 0025 007	7 G 2,5	168,0	13,0	331
880 0040 001	1 G 4	38,0	6,8	83
880 0040 003	3 G 4	115,0	11,7	258
880 0040 004	4 G 4	154,0	12,9	322
880 0040 005	5 G 4	192,0	14,2	390
880 0060 001	1 G 6	58,0	7,2	107
880 0060 003	3 G 6	173,0	13,2	354
880 0060 004	4 G 6	230,0	14,5	444
880 0060 005	5 G 6	288,0	15,5	518
880 0100 001	1 G 10	96,0	8,5	158
880 0100 003	3 G 10	288,0	16,2	552
880 0100 004	4 G 10	384,0	17,2	656
880 0100 005	5 G 10	480,0	18,9	799
880 0160 001	1 G 16	154,0	10,0	232
880 0160 004	4 G 16	614,0	20,9	1002
880 0160 005	5 G 16	768,0	23,4	1244
880 0250 004	4 G 25	960,0	26,0	1570
880 0250 005	5 G 25	1200,0	28,8	1930
880 0350 004	4 G 35	1344,0	29,0	2092

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
(N)HMH-O				
881 0015 001	1 X 1,5	14,0	5,5	36
881 0015 002	2 X 1,5	29,0	8,5	84
881 0015 003	3 X 1,5	43,0	8,8	131
881 0015 004	4 X 1,5	58,0	9,6	155
881 0015 007	7 X 1,5	101,0	11,0	224
881 0025 001	1 X 2,5	24,0	6,0	46
881 0025 002	2 X 2,5	48,0	9,7	112
881 0025 003	3 X 2,5	72,0	10,0	181
881 0025 004	4 X 2,5	96,0	11,0	225
881 0040 001	1 X 4	38,0	6,8	83
881 0040 002	2 X 4	77,0	10,0	159
881 0040 004	4 X 4	154,0	12,9	322
881 0060 001	1 X 6	58,0	7,2	107
881 0060 002	2 X 6	115,0	11,5	211
881 0060 004	4 X 6	230,0	14,5	444
881 0100 001	1 X 10	96,0	8,5	158
881 0100 002	2 X 10	192,0	13,7	345
881 0100 004	4 X 10	384,0	17,2	656
881 0160 001	1 X 16	154,0	10,0	232
881 0160 004	4 X 16	614,0	20,9	1002
881 0250 004	4 X 25	960,0	26,0	1570
881 0350 004	4 X 35	1344,0	29,0	2092

CC-installation cable NHXMH-J-850 and NHXMH-O-851

Halogen-free with improved behavior in fire
Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 850 5x1,5 NHXMH-J CE



The halogen-free CC-installation cable NHXMH-J-850 and NHXMH-O-851 is used primarily in buildings where there is a demand for increased protection for humans and goods as in the event of fire it exudes hardly any smoky gases and causes no corrosion. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be used outdoors provided it is protected from direct sunlight.

Construction

Bare, solid or multiple strands of copper wire, halogen-free cross-linked polymer core insulation, core colours acc. to VDE 0293 308. With NHXMH-J 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath flame retardant halogen-free polymer mixture (acc. to IEC 60332-3). Colour grey.

Technical data

Rated voltage:
300/500 V

Test voltage:
2000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter

Approvals:
acc. to VDE 0250, part 214

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
NHXMH-J					NHXMH-O				
850 0015 003	3 G 1,5 RE	43,0	9,1	150	851 0015 001	1 × 1,5 RE	15,0	7,0	49
850 0015 004	4 G 1,5 RE	58,0	9,8	180	851 0015 002	2 × 1,5 RE	29,0	9,4	120
850 0015 005	5 G 1,5 RE	72,0	10,6	200	851 0015 003	3 × 1,5 RE	43,0	9,1	150
850 0015 007	7 G 1,5 RE	101,0	11,0	250	851 0015 004	4 × 1,5 RE	58,0	9,8	180
850 0015 010	10 G 1,5 RE*	144,0	15,0	350	851 0015 005	5 × 1,5 RE	72,0	10,6	200
850 0015 012	12 G 1,5 RE*	173,0	15,0	400	851 0015 007	7 × 1,5 RE	101,0	11,0	250
850 0015 024	24 G 1,5 RE*	346,0	20,0	700					
850 0025 003	3 G 2,5 RE	72,0	10,2	180	851 0025 001	1 × 2,5 RE	24,0	7,6	60
850 0025 004	4 G 2,5 RE	96,0	10,6	220	851 0025 002	2 × 2,5 RE	48,0	10,5	150
850 0025 005	5 G 2,5 RE	120,0	11,5	250	851 0025 003	3 × 2,5 RE	72,0	10,2	180
850 0025 007	7 G 2,5 RE	168,0	13,0	350	851 0025 004	4 × 2,5 RE	96,0	10,6	220
					851 0025 005	5 × 2,5 RE	120,0	11,5	250
850 0040 003	3 G 4 RE	115,0	11,5	250	851 0025 007	7 × 2,5 RE	168,0	13,0	350
850 0040 004	4 G 4 RE	154,0	13,0	320					
850 0040 005	5 G 4 RE	192,0	14,3	380	851 0040 001	1 × 4 RE	39,0	8,6	80
					851 0040 002	2 × 4 RE	77,0	11,3	200
850 0060 003	3 G 6 RE	173,0	13,0	350	851 0040 003	3 × 4 RE	115,0	11,5	250
850 0060 004	4 G 6 RE	230,0	14,3	450	851 0040 004	4 × 4 RE	154,0	13,0	320
850 0060 005	5 G 6 RE	288,0	15,5	550	851 0040 005	5 × 4 RE	192,0	14,3	380
850 0100 003	3 G 10 RE	288,0	15,5	550	851 0060 001	1 × 6 RE	58,0	9,9	111
850 0100 004	4 G 10 RE	384,0	16,8	650	851 0060 003	3 × 6 RE	173,0	13,0	350
850 0100 005	5 G 10 RE	480,0	18,3	800	851 0060 004	4 × 6 RE	230,0	14,3	450
					851 0060 005	5 × 6 RE	288,0	15,5	550
850 0160 003	3 G 16 RM	461,0	18,8	838					
850 0160 004	4 G 16 RM	615,0	20,8	945	851 0100 001	1 × 10 RE	96,0	11,2	160
850 0160 005	5 G 16 RM	768,0	23,0	1150	851 0100 003	3 × 10 RE	288,0	15,5	550
					851 0100 004	4 × 10 RE	384,0	16,8	650
850 0250 003	3 G 25 RM	720,0	23,3	1165	851 0100 005	5 × 10 RE	480,0	18,3	800
850 0250 004	4 G 25 RM	960,0	25,8	1430					
850 0250 005	5 G 25 RM	1200,0	28,0	1815	851 0160 001	1 × 16 RM	154,0	11,9	232
					851 0160 003	3 × 16 RM	461,0	18,8	838
850 0350 003	3 G 35 RM	1008,0	26,0	1505	851 0160 004	4 × 16 RM	615,0	20,8	945
850 0350 004	4 G 35 RM	1344,0	28,8	1940	851 0160 005	5 × 16 RM	768,0	23,0	1150
850 0350 005	5 G 35 RM	1680,0	30,5	2500					


Conductor markings RE, RM, SM refer to technical appendix
*acc. to VDE 0250, part 214

CC-power cable N2XH-J-856 and N2XH-O-857

Halogen-free, 0.6/1kV

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 856 5x1,5 N2XH-J CE



The halogen-free CC-power cable N2XH-J-856 and N2XH-O-857 is used primarily in power stations and substations as well as in buildings where there is a demand for increased protection for humans and goods as in the event of fire it hardly exudes any smoky gases and causes no corrosion. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be used outdoors but not in water or buried in ground.

Construction

Bare, solid or multiple strands of copper wire, halogen-free cross-linked PE core insulation, core colours acc. to VDE 0293 308. With N2XH-J 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath flame retardant, halogen-free polymer mixture (acc. to IEC 60332-3). Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0276, part 604

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
N2XH-J				
856 0015 003	3 G 1,5 RE	43,0	12,4	210
856 0015 004	4 G 1,5 RE	58,0	13,0	235
856 0015 005	5 G 1,5 RE	72,0	14,3	273
856 0015 007	7 G 1,5 RE	101,0	14,6	330
856 0015 010	10 G 1,5 RE *	144,0	17,0	420
856 0015 012	12 G 1,5 RE *	173,0	18,0	460
856 0015 030	30 G 1,5 RE *	432,0	24,0	900
856 0025 003	3 G 2,5 RE	72,0	13,6	260
856 0025 004	4 G 2,5 RE	96,0	14,1	293
856 0025 005	5 G 2,5 RE	120,0	16,4	342
856 0025 007	7 G 2,5 RE	168,0	16,5	435
856 0025 010	10 G 2,5 RE *	240,0	18,0	540
856 0025 012	12 G 2,5 RE *	288,0	19,0	600
856 0040 003	3 G 4 RE	115,0	14,5	335
856 0040 004	4 G 4 RE	154,0	15,1	375
856 0040 005	5 G 4 RE	192,0	16,5	440
856 0060 003	3 G 6 RE	173,0	15,2	405
856 0060 004	4 G 6 RE	230,0	16,2	475
856 0060 005	5 G 6 RE	288,0	17,4	572
856 0100 003	3 G 10 RE	288,0	17,2	570
856 0100 004	4 G 10 RE	384,0	17,8	671
856 0100 005	5 G 10 RE	480,0	19,5	805
856 0160 003	3 G 16 RE	461,0	19,5	785
856 0160 004	4 G 16 RE	614,0	19,8	932
856 0160 005	5 G 16 RE	768,0	22,8	1180
856 0250 003	3 G 25 RM	720,0	23,4	1204
856 0250 004	4 G 25 RM	960,0	16,0	1440
856 0250 005	5 G 25 RM	1200,0	28,0	1710
856 0350 003	3 G 35 RM	1008,0	26,0	1580
856 0350 004	4 G 35 RM	1344,0	28,1	1890
856 0500 003	3 G 50 RM	1440,0	27,8	1780
856 0500 004	4 G 50 RM	1820,0	29,2	2301
856 0700 004	4 G 70 RM	2688,0	32,0	3202
856 0950 004	4 G 95 RM	3648,0	38,0	4230
856 1200 004	4 G 120 RM	4608,0	41,8	5302

Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
N2XH-O				
857 0015 002	2 X 1,5 RE	29,0	12,0	182
857 0025 002	2 X 2,5 RE	48,0	12,1	218
857 0040 001	1 X 4 RE	38,0	8,1	107
857 0040 002	2 X 4 RE	77,0	13,2	272
857 0060 001	1 X 6 RE	58,0	9,0	129
857 0060 002	2 X 6 RE	115,0	13,8	338
857 0100 001	1 X 10 RE	96,0	10,0	177
857 0100 002	2 X 10 RE	192,0	16,2	452
857 0160 001	1 X 16 RE	154,0	10,5	215
857 0160 002	2 X 16 RE	307,0	17,5	591
857 0250 001	1 X 25 RM	240,0	11,8	322
857 0250 002	2 X 25 RM	480,0	23,1	982
857 0350 001	1 X 35 RM	336,0	13,1	430
857 0500 001	1 X 50 RM	480,0	15,5	588
857 0700 001	1 X 70 RM	672,0	17,2	792
857 0950 001	1 X 95 RM	912,0	19,5	1070
857 1200 001	1 X 120 RM	1152,0	21,5	1368
857 1500 001	1 X 150 RM	1440,0	23,6	1594
857 1850 001	1 X 185 RM	1776,0	25,4	2055
857 2400 001	1 X 240 RM	2304,0	28,3	2560
857 3000 001	1 X 300 RM	2880,0	31,4	3132

Conductor markings RE, RM, SM refer to technical appendix *on request, acc. to VDE 0276, part 604



CC-power cable N2XCH-858

Halogen-free, 0.6/1 kV

Conforms to the EC low voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 858 3x1,5/1,5 N2XCH CE

The halogen-free CC-power cable N2XCH-858 is used primarily in power stations and substations as well as in buildings where there is a demand for increased protection for humans and goods as in the event of fire it hardly exudes any smoky gases and causes no corrosion. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be used outdoors provided it is protected from direct sunlight but not in water or buried in ground. The concentric copper conductor serves as a shield and can be used as a neutral conductor (N) or protective conductor (PR/PEN) but not as an outside conductor.

Construction

Bare, solid or multiple strands of copper wire, halogen-free cross-linked PE core insulation, core colours acc. to VDE 0293 308, 3 cores or more with green/yellow protective conductor in the outside layer, cores twisted in layers, halogen-free filling inner sheath, concentric bare copper wire shield with copper tape. Outer sheath out of flame retardant, halogen-free polymer mixture (acc. to IEC 60332-3) Colour black.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0276, part 604

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
858 0015 002	2 × 1,5 RE/1,5	52,0	14,0	250
858 0015 003	3 × 1,5 RE/1,5	66,0	14,5	250
858 0015 004	4 × 1,5 RE/1,5	81,0	15,5	300
858 0015 007	7 × 1,5 RE/2,5*	133,0	18,0	350
858 0015 012	12 × 1,5 RE/2,5*	205,0	20,5	550
858 0015 024	24 × 1,5 RE/6*	413,0	24,0	780
858 0015 030	30 × 1,5 RE/6*	499,0	28,0	100
858 0025 002	2 × 2,5 RE/2,5	80,0	15,0	280
858 0025 003	3 × 2,5 RE/2,5	104,0	15,5	320
858 0025 004	4 × 2,5 RE/2,5	128,0	16,5	380
858 0025 007	7 × 2,5 RE/2,5*	200,0	19,0	440
858 0025 012	12 × 2,5 RE/4*	334,0	22,5	750
858 0025 030	30 × 2,5 RE/10*	840,0	31,0	1500
858 0040 003	3 × 4 RE/4	161,0	16,5	400
858 0040 004	4 × 4 RE/4	200,0	17,5	480
858 0040 007	7 × 4 RE/4*	315,0	20,0	610
858 0060 003	3 × 6 RE/6	240,0	18,0	500
858 0060 004	4 × 6 RE/6	297,0	19,0	600
858 0060 007	7 × 6 RE/6*	470,0	21,5	850
858 0100 003	3 × 10 RE/10	408,0	20,0	750
858 0100 004	4 × 10 RE/10	504,0	21,5	850
858 0160 003	3 × 16 RE/16	643,0	22,5	1000
858 0160 004	4 × 16 RE/16	796,0	24,5	1200
858 0250 003	3 × 25 RM/16	1003,0	27,0	1600
858 0250 004	4 × 25 RM/16	1142,0	29,0	1800
858 0350 003	3 × 35 RM/16	1402,0	27,5	1900
858 0350 004	4 × 35 RM/16	1526,0	29,5	2100
858 0500 004	4 × 50 SM/25	2203,0	32,5	2800
858 0700 004	4 × 70 SM/35	3082,0	38,0	3800
858 0950 004	4 × 95 SM/50	4208,0	43,5	5100
858 1200 004	4 × 120 SM/70	5388,0	47,5	6300
858 1500 004	4 × 150 SM/70	6540,0	53,0	7500
858 1850 004	4 × 185 SM/95	8159,0	55,0	8900
858 2400 004	4 × 240 SM/120	10546,0	61,0	11200

Conductor markings RE, RM, SM refer to technical appendix
*acc. to VDE 0250, part 214

CC-power cable NHXH-J/O E30/FE180-860

Halogen-free with electrical function E30 acc. to DIN 4102
Insulation integrity FE180 acc. to IEC 60331, shielded
Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 860 3x1,5 NHXH-J E30/FE 180 CE



The halogen-free CC-power cable NHXH-J/O E30/FE180-860 is used primarily in power stations and substations as well as in buildings where there is a demand for increased protection for humans and goods as the functional and insulation performance requirements of the cable have to comply with a higher level of safety. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork and in concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be used outdoors provided it is protected from direct sunlight but not in water or buried in ground.

Construction

Bare, solid or multiple strands of copper wire, halogen-free cross-linked polymer core insulation, core colours acc. to VDE 0293308. With NH2XH-J E30, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers. Outer sheath flame retardant, halogen-free polymer mixture (acc. to IEC 60332-3). Colour orange.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +90°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0266
DIN 4102 VDE 0472 and part 814
IEC 60331



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
860 0015 002	2 × 1,5 RE	29,0	12,0	180	860 0250 001	1 × 25 RM	240,0	13,0	380
860 0015 003	3 × 1,5 RE	43,0	13,0	200	860 0250 002	2 × 25 RM	480,0	22,0	900
860 0015 004	4 × 1,5 RE	58,0	13,5	240	860 0250 003	3 × 25 RM	720,0	23,0	1200
860 0015 005	5 × 1,5 RE	72,0	14,0	280	860 0250 0031	3 × 25 RM/16	874,0	26,0	1350
860 0015 007	7 × 1,5 RE	101,0	14,3	330	860 0250 004	4 × 25 RM	960,0	26,0	1500
860 0015 012	12 × 1,5 RE	173,0	15,0	410	860 0250 005	5 × 25 RM	1200,0	29,0	1800
860 0015 019	19 × 1,5 RE	274,0	23,0	900					
860 0015 024	24 × 1,5 RE	346,0	26,0	1100	860 0350 001	1 × 35 RM	336,0	14,0	480
860 0015 030	30 × 1,5 RE	432,0	28,0	1300	860 0350 003	3 × 35 RM	1080,0	26,0	1500
					860 0350 0031	3 × 35 RM/16	1162,0	30,0	1700
860 0025 002	2 × 2,5 RE	48,0	13,0	210	860 0350 004	4 × 35 RM	1344,0	28,5	1900
860 0025 003	3 × 2,5 RE	72,0	14,0	250	860 0350 005	5 × 35 RM	1680,0	36,0	2700
860 0025 004	4 × 2,5 RE	96,0	14,0	300					
860 0025 005	5 × 2,5 RE	120,0	16,0	350	860 0500 001	1 × 50 RM	480,0	16,0	650
860 0025 007	7 × 2,5 RE	168,0	17,0	540	860 0500 003	3 × 50 RM	1440,0	29,0	2000
860 0025 012	12 × 2,5 RE	288,0	21,0	600	860 0500 0031	3 × 50 RM/25	1680,0	34,0	2250
860 0025 019	19 × 2,5 RE	456,0	25,0	860	860 0500 004	4 × 50 RM	1920,0	32,0	2500
860 0025 024	24 × 2,5 RE	576,0	29,0	1400	860 0500 005	5 × 50 RM	2400,0	40,0	3653
860 0025 030	30 × 2,5 RE	720,0	31,0	1600					
					860 0700 001	1 × 70 RM	672,0	14,0	850
860 0040 001	1 × 4 RE	38,0	7,5	110	860 0700 003	3 × 70 RM	2016,0	35,0	2800
860 0040 002	2 × 4 RE	77,0	14,0	260	860 0700 0031	3 × 70 RM/35	2352,0	38,0	3200
860 0040 003	3 × 4 RE	115,0	15,0	320	860 0700 004	4 × 70 RM	2688,0	37,0	3400
860 0040 004	4 × 4 RE	154,0	15,0	400					
860 0040 005	5 × 4 RE	192,0	17,0	450	860 0950 001	1 × 95 RM	912,0	20,0	1200
					860 0950 003	3 × 95 RM/50	3216,0	42,0	4200
860 0060 001	1 × 6 RE	58,0	9,0	150	860 0950 004	4 × 95 RM	3648,0	42,0	4700
860 0060 002	2 × 6 RE	115,0	15,0	320					
860 0060 003	3 × 6 RE	173,0	16,0	400	860 1200 001	1 × 120 RM	1152,0	22,0	1400
860 0060 004	4 × 6 RE	230,0	17,0	500	860 1200 0031	3 × 120 RM/70	4128,0	48,0	5300
860 0060 005	5 × 6 RE	288,0	18,0	560	860 1200 004	4 × 120 RM	4608,0	48,0	6007
860 0100 001	1 × 10 RE	96,0	10,0	180	860 1500 001	1 × 150 RM	1440,0	24,0	1700
860 0100 002	2 × 10 RE	192,0	16,0	440	860 1500 0031	3 × 150 RM/70	4992,0	53,0	6300
860 0100 003	3 × 10 RE	288,0	18,0	550	860 1500 004	4 × 150 RM	5760,0	53,0	7362
860 0100 004	4 × 10 RE	384,0	19,0	680					
860 0100 005	5 × 10 RE	480,0	20,0	840	860 1850 001	1 × 185 RM	1776,0	26,5	2200
					860 1850 0031	3 × 185 RM/95	6240,0	58,0	7900
860 0160 001	1 × 16 RE	154,0	11,0	250					
860 0160 002	2 × 16 RE	307,0	17,5	570	860 2400 001	1 × 240 RM	2304,0	28,0	2500
860 0160 003	3 × 16 RE	461,0	20,0	800					
860 0160 004	4 × 16 RM	614,0	22,0	1000					
860 0160 005	5 × 16 RM	768,0	24,0	1200					

For description of conductor RE, RM, SM see appendix.

CC-power cable NHXCH E30/FE180-861

Halogen-free with electrical function E30 acc. to DIN 4102
Insulation integrity FE180 acc. to IEC 60331, shielded
Conforms to the EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 861 3x1,5/1,5 NHXCH E30/FE180 CE

The halogen-free CC-power cable NHXCH E30/FE180-861 is used primarily in power stations and substations as well as in buildings where there is a demand for increased protection for humans and goods as the functional and insulation performance requirements of the cable have to comply with a higher level of safety. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork or concrete with the exception of cabling in shaken, vibrated and compressed concrete.

This cable can also be applied outdoors provided it is protected from direct sunlight.

It may not be laid in water or buried in ground. The concentric copper conductor serves as a shield and can be used as a neutral conductor (N) or protective conductor (PR/PEN) but not as an outside conductor.

Construction

Bare, solid or multiple strands of copper wire, halogen-free cross-linked polymer core insulation, core colours acc. to VDE 0293 308, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers, halogen-free filling inner sheath, concentric bare copper wire shield with copper tape. Outer sheath flame retardant, halogen-free polymer mixture (acc. to IEC 60332-3)
Colour orange.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +70°C

Bending radius:
fixed installation: 6 × cable diameter

Approvals:
DIN 4102
VDE 0472, part 814 and IEC 60331

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Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
861 0015 002	2 × 1,5 RE/1,5	52,0	15,0	250	861 0700 003	3 × 70 RM/35	2410,0	37,0	3200
861 0015 003	3 × 1,5 RE/1,5	66,0	15,0	250	861 0700 004	4 × 70 RM/35	3082,0	42,0	4200
861 0015 004	4 × 1,5 RE/1,5	81,0	17,0	300					
861 0015 007	7 × 1,5 RE/2,5	133,0	18,0	480	861 0950 003	3 × 95 RM/50	3296,0	41,0	4200
861 0015 030	30 × 1,5 RE/6	499,0	31,0	1400	861 0950 004	4 × 95 RM/50	4208,0	47,0	5700
861 0025 002	2 × 2,5 RE/2,5	80,0	16,0	280	861 1200 003	3 × 120 RM/70	4236,0	47,0	5350
861 0025 003	3 × 2,5 RE/2,5	104,0	16,0	320	861 1200 004	4 × 120 RM/70	5388,0	53,0	7200
861 0025 004	4 × 2,5 RE/2,5	128,0	18,0	400					
861 0040 002	2 × 4 RE/4	123,0	17,0	350	861 1500 003	3 × 150 RM/70	5100,0	52,0	6400
861 0040 003	3 × 4 RE/4	161,0	17,0	400	861 1500 004	4 × 150 RM/70	6540,0	58,0	8700
861 0040 004	4 × 4 RE/4	200,0	19,0	470					
861 0060 002	2 × 6 RE/6	182,0	18,0	450	861 1850 003	3 × 185 RM/95	6383,0	56,0	7900
861 0060 003	3 × 6 RE/6	240,0	18,0	500	861 1850 004	4 × 185 RM/95	8159,0	65,0	10500
861 0060 004	4 × 6 RE/6	297,0	21,0	600					
861 0100 002	2 × 10 RE/10	312,0	20,0	650	861 2400 003	3 × 240 RM/120	8242,0	64,0	9800
861 0100 003	3 × 10 RE/10	408,0	20,0	750	861 2400 004	4 × 240 RM/120	10546,0	65,0	10500
861 0100 004	4 × 10 RE/10	504,0	23,0	850					
861 0160 003	3 × 16 RE/16	643,0	23,0	1100					
861 0160 004	4 × 16 RE/16	796,0	26,0	1250					
861 0250 003	3 × 25 RM/16	1003,0	27,0	1500					
861 0250 004	4 × 25 RM/16	1142,0	30,0	1800					
861 0350 003	3 × 35 RM/16	1402,0	30,0	1900					
861 0350 004	4 × 35 RM/16	1526,0	33,0	2300					
861 0500 003	3 × 50 RM/25	1723,0	32,5	2300					
861 0500 004	4 × 50 RM/25	2203,0	37,0	3000					

For description of conductor RE, RM, SM see appendix.

CC-power cable NHXH-J/O E90/FE180-862

Halogen-free with electrical function E90 acc. to DIN 4102

Insulation integrity FE180 acc. to IEC 60331

Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 862 3x2,5 NHXH-J E90/FE180 CE



The halogen-free CC-power cable NHXH-J/O E90/FE180-862 is used primarily in power stations and substations as well as in buildings where there is a demand for increased protection for humans and goods as the functional and insulation requirements of the cable have to comply with a higher level of safety. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork or concrete with the exception of cabling in shaken, vibrated and compressed concrete. This cable can also be applied outdoors provided it is protected from direct sunlight. It may not be laid in water or buried in ground.

Construction

Bare, solid or multiple strands of copper wire, halogen-free cross-linked polymer core insulation with additional fire protection, core colours acc. to VDE 0293 308 with NHXH-J, 3 cores or more with green/yellow protective conductor in the outer layer, cores twisted in layers, halogen-free filling inner sheath with flame protection wrapping. Outer sheath flame retardant halogen-free polymer mixture (acc. to IEC 60332-3). Colour orange.

Technical data

Rated voltage:
0,6/1 kV

Test voltage:
4000 V

Conductor stranding:
single or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +90°C

Bending radius:
fixed installation: 6 × cable diameter

Approvals:
acc. to VDE 0266, DIN 4102
VDE 0472, part 814 and IEC 60331



Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
862 0015 002	2 × 1,5 RE	29,0	15,0	280	862 0500 001	1 × 50 RM	480,0	16,0	670
862 0015 003	3 × 1,5 RE	43,0	16,0	300	862 0500 002	2 × 50 RM	960,0	30,0	1950
862 0015 004	4 × 1,5 RE	58,0	17,0	350	862 0500 003	3 × 50 RM	1440,0	33,0	2450
862 0015 005	5 × 1,5 RE	72,0	18,0	400	862 0500 0031	3 × 50 RM/25	1680,0	36,0	2700
862 0015 007	7 × 1,5 RE	101,0	18,0	480	862 0500 004	4 × 50 RM	1920,0	34,0	2900
862 0015 010	10 × 1,5 RE	144,0	21,0	500	862 0500 005	5 × 50 RM	2500,0	38,0	3100
862 0015 012	12 × 1,5 RE	173,0	26,0	700					
862 0015 024	24 × 1,5 RE	346,0	32,0	1400	862 0700 001	1 × 70 RM	672,0	18,0	910
					862 0700 002	2 × 70 RM	1344,0	34,0	2650
862 0025 002	2 × 2,5 RE	48,0	16,0	320	862 0700 003	3 × 70 RM	2016,0	37,0	3300
862 0025 003	3 × 2,5 RE	72,0	17,0	380	862 0700 0031	3 × 70 RM/35	2352,0	40,0	3600
862 0025 004	4 × 2,5 RE	96,0	18,0	420	862 0700 004	4 × 70 RM	2688,0	39,0	3500
862 0025 005	5 × 2,5 RE	120,0	19,0	480	862 0700 005	5 × 70 RM	3360,0	45,0	5100
862 0025 007	7 × 2,5 RE	168,0	20,0	600					
862 0025 010	10 × 2,5 RE	240,0	23,0	600	862 0950 001	1 × 95 RM	912,0	21,0	1200
862 0025 012	12 × 2,5 RE	288,0	28,0	900	862 0950 002	2 × 95 RM	1824,0	39,0	3450
					862 0950 003	3 × 95 RM	2736,0	42,0	4400
862 0040 002	2 × 4 RE	77,0	17,0	380	862 0950 0031	3 × 95 RM/50	3216,0	46,0	4800
862 0040 003	3 × 4 RE	115,0	18,0	450	862 0950 004	4 × 95 RM	3648,0	44,0	4700
862 0040 004	4 × 4 RE	154,0	19,0	550					
862 0040 005	5 × 4 RE	192,0	21,0	600	862 1200 001	1 × 120 RM	1152,0	22,0	1500
862 0040 007	7 × 4 RE	269,0	22,0	800	862 1200 002	2 × 120 RM	2304,0	41,0	4050
					862 1200 003	3 × 120 RM	3456,0	44,0	5150
862 0060 002	2 × 6 RE	115,0	18,0	450	862 1200 0031	3 × 120 RM/70	4128,0	49,0	6000
862 0060 003	3 × 6 RE	173,0	19,0	550	862 1200 004	4 × 120 RM	4608,0	48,0	5800
862 0060 004	4 × 6 RE	230,0	20,0	650					
862 0060 005	5 × 6 RE	288,0	22,0	750	862 1500 001	1 × 150 RM	1440,0	24,0	1800
					862 1500 003	3 × 150 RM	4320,0	49,0	6350
862 0100 002	2 × 10 RE	192,0	20,0	600	862 1500 0031	3 × 150 RM/70	4992,0	52,0	7200
862 0100 003	3 × 10 RE	288,0	21,0	750	862 1500 004	4 × 150 RM	5760,0	54,0	8100
862 0100 004	4 × 10 RE	384,0	23,0	900					
862 0100 005	5 × 10 RE	480,0	25,0	1100	862 1850 001	1 × 185 RM	1776,0	27,0	2200
					862 1850 003	3 × 185 RM	5328,0	54,0	7800
862 0160 001	1 × 16 RM	154,0	12,0	290	862 1850 0031	3 × 185 RM/95	6240,0	56,0	8800
862 0160 002	2 × 16 RM	307,0	22,0	800	862 1850 004	4 × 185 RM	7104,0	60,0	9900
862 0160 003	3 × 16 RM	461,0	23,0	1000					
862 0160 004	4 × 16 RM	614,0	26,0	1200	862 2400 003	3 × 240 RM	6912,0	61,0	10100
862 0160 005	5 × 16 RE	768,0	28,0	1400	862 2400 0031	3 × 240 RM/120	8064,0	63,0	11100
					862 2400 004	4 × 240 RM	9216,0	67,0	12900
862 0250 001	1 × 25 RM	240,0	13,0	390					
862 0250 002	2 × 25 RM	480,0	26,0	1200	862 3000 001	1 × 300 RM	2880,0	33,0	3400
862 0250 003	3 × 25 RM	720,0	25,0	1200					
862 0250 004	4 × 25 RM	960,0	28,0	1600	862 4000 001	1 × 400 RM	3840,0	36,0	4300
862 0250 005	5 × 25 RE	1200,0	30,0	1800					
862 0350 001	1 × 35 RM	336,0	15,0	520					
862 0350 002	2 × 35 RM	672,0	28,0	1500					
862 0350 003	3 × 35 RM	1008,0	27,0	1450					
862 0350 0031	3 × 35 RM/16	1162,0	31,0	2000					
862 0350 004	4 × 35 RM	1344,0	31,0	1900					
862 0350 005	5 × 35 RE	1680,0	33,0	2350					

For description of conductor RE, RM, SM see appendix.

CC-power cable NHXCH E90/FE180-863



Halogen-free with electrical function E90 acc. to DIN 4102
Insulation integrity FE180 acc. to IEC 60331, shielded
Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 863 3x1,5/1,5 NHXCH E90/FE180 CE



The halogen-free CC-power cable NHXCH E90/FE180-863 is used primarily in power stations and substations as well as in buildings where there is a demand for increased protection for humans and goods as the functional and insulation performance requirements of the cable have to comply with a higher level of safety. It is ideal to be laid over, on, inside and under plaster in dry, damp and wet rooms as well as in brickwork or concrete with the exception of cabling in shaken, vibrated and compressed concrete.

This cable can also be applied outdoors provided it is protected from direct sunlight.

It may not be laid in water or buried in ground. The concentric copper conductor serves as a shield and can be used as a neutral conductor (N) or protective conductor (PR/PEN) but not as an outside conductor.

Construction

Bare, solid or multiple strands of copper wire, halogen-free core cross-linked polymer mixture core insulation with additional fire protection, core colours acc. to VDE 0293 308, cores twisted in layers, halogen-free filling inner sheath, concentric shield out of bare copper wires with copper tape. Outer sheath out of flame retardant, halogen-free polymer mixture (acc. to IEC 60332-3). Colour orange.

Technical data

Rated voltage:
0,6/1kV

Test voltage:
4000 V

Conductor stranding:
solid or multiple copper strands
acc. to VDE 0295, class 1 or 2

Insulation resistance:
min. 100 MOhm × km

Temperature range:
fixed installation: -40°C to +90°C

Bending radius:
fixed installation: 12 × cable diameter

Approvals:
acc. to VDE 0266

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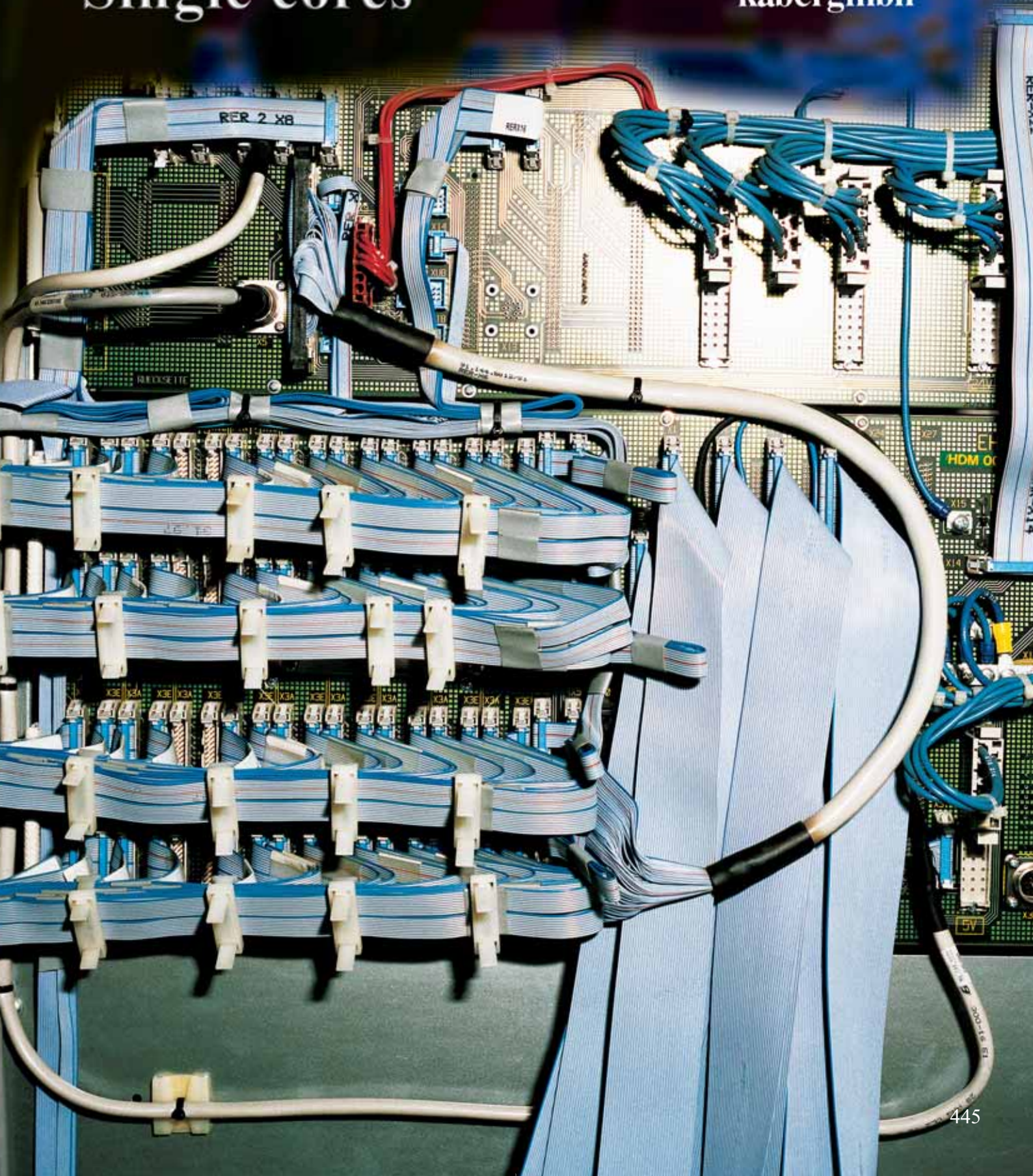


Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km	Part-No.	No. of cores + cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
863 0015 003	3 × 1,5 RE/1,5	66,0	17,0	320	863 0950 003	3 × 95 RM/50	3296,0	47,0	4500
863 0015 004	4 × 1,5 RE/1,5	81,0	18,0	450	863 0950 004	4 × 95 RM/50	4208,0	52,0	6100
863 0015 007	7 × 1,5 RE/2,5	133,0	22,0	600					
863 0015 012	12 × 1,5 RE/2,5	205,0	27,0	750	863 1200 003	3 × 120 RM/70	4236,0	51,0	5600
863 0015 024	24 × 1,5 RE/6	413,0	34,0	1300	863 1200 004	4 × 120 RM/70	5388,0	57,0	7500
863 0015 030	30 × 1,5 RE/6	499,0	36,0	1500					
863 0025 003	3 × 2,5 RE/1,5	104,0	18,0	380	863 1500 003	3 × 150 RM/70	5100,0	54,0	6400
863 0025 004	4 × 2,5 RE/2,5	128,0	19,0	500	863 1500 004	4 × 150 RM/70	6540,0	62,0	9000
863 0025 007	7 × 2,5 RE/2,5	200,0	22,0	650					
863 0025 012	12 × 2,5 RE/4	334,0	28,0	950	863 1850 003	3 × 185 RM/95	6383,0	62,0	8800
863 0025 024	24 × 2,5 RE/10	696,0	37,0	1700	863 1850 004	4 × 185 RM/95	8159,0	68,0	11000
863 0025 030	30 × 2,5 RE/10	840,0	39,0	1900					
863 0040 003	3 × 4 RE/4	161,0	19,0	480	863 2400 003	3 × 240 RM/120	8242,0	70,0	11300
863 0040 004	4 × 4 RE/4	200,0	21,0	600	863 2400 004	4 × 240 RM/120	10546,0	76,0	14500
863 0060 003	3 × 6 RE/6	240,0	20,0	600					
863 0060 004	4 × 6 RE/6	297,0	22,0	750					
863 0100 003	3 × 10 RE/10	408,0	23,0	850					
863 0100 004	4 × 10 RE/10	504,0	25,0	1100					
863 0160 003	3 × 16 RM/16	643,0	26,0	1200					
863 0160 004	4 × 16 RM/10	796,0	29,0	1500					
863 0250 003	3 × 25 RM/16	1003,0	30,0	1700					
863 0250 004	4 × 25 RM/16	1142,0	32,0	2000					
863 0350 003	3 × 35 RM/16	1402,0	32,0	2200					
863 0350 004	4 × 35 RM/16	1526,0	35,0	2500					
863 0500 003	3 × 50 RM/25	1723,0	36,0	2400					
863 0500 004	4 × 50 RM/25	2203,0	40,0	3300					
863 0700 003	3 × 70 RM/35	2410,0	41,0	2800					
863 0700 004	4 × 70 RM/35	3082,0	44,0	4400					

For description of conductor RE, RM, SM see appendix.



Single cores



CC-single core PVC

LiYv-365

H05V-K/X05V-K-370

H07V-K/X07V-K-380

Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 380 H07V-K CE

Technical data

LiYv:

Hook-up wire used for wiring electronic components, transmitting apparatus and telecommunication systems.

LiYv:

tinned, fine copper strands
acc. to VDE 0295, class 5. PVC core
insulation YI3 flame retardant (acc. to VDE
0482, part 265-2-1 resp.
EN 50265-2-1 and IEC 60332-1).

H05V-K resp. X05V-K:

PVC hook-up wire for internal wiring of electrical appliances. The cable is ideal for protected wiring in switchgear cabinets. It can be laid in conduits on- and under plaster, but only for signal and control systems.

bare, fine copper strands acc. to VDE 0295,
class 5. PVC core insulation TI1 flame
retardant (acc. to VDE 0482, part 265-2-1
resp. EN 50265-2-1 and IEC 60332-1).

H05V-K: single colour and green/yellow.

X05V-K: single and multicoloured.

H07V-K resp. X07V-K:

PVC hook-up wire for internal wiring of electrical appliances is ideal for protected wiring in switchgear cabinets. It can be laid in and underneath plaster only in closed installation channels and tubes. The cable is not suitable for direct laying on trays and racks.

bare, fine copper strands
acc. to VDE 0295, class 5. PVC core
insulation TI1 flame retardant (acc. to VDE
0482, part 265-2-1 resp.
EN 50265-2-1 and IEC 60332-1).

H07V-K: single colour and green/yellow.

X07V-K: single and multicoloured.

	LiYv	H05V-K/X05V-K	H07V-K/X07V-K
Rated voltage (V):	300 V (0,14mm ²) 500 V (> 0,14mm ²)	300/500V	450/750V
Test voltage (V):	1200 V (0,14mm ²) 2500 V (> 0,14mm ²)	2000 V	2500 V
Insulation resistance:	Min. 20 MOhm × km		
Temperature range			
Fixed installation:	-30°C to +70°C		
Flexible application:	-5°C to +70°C		
Approvals:	acc. to HD 21.3 S3	acc. to VDE 0281, part 3	

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
LiYv				
365 01 ..	0,14	1,4	1,0 - 1,2	3
365 02 ..	0,25	2,4	1,2 - 1,4	5
365 05 ..	0,50	4,8	1,7 - 2,0	8
365 07 ..	0,75	7,2	1,9 - 2,2	12
H05V-K/X05V-K				
370 05 ..	0,50	4,8	2,1 - 2,6	8
370 07 ..	0,75	7,2	2,2 - 2,8	12
370 10 ..	1,0	9,6	2,4 - 2,9	14
H07V-K/X07V-K				
380 0015 ..	1,5	14,4	2,8 - 3,4	20
380 0025 ..	2,5	24,0	3,4 - 4,1	32
380 0040 ..	4,0	38,4	3,9 - 4,8	46
380 0060 ..	6,0	58,0	4,4 - 5,3	65
380 0100 ..	10,0	96,0	5,7 - 6,8	113
380 0160 ..	16,0	154,0	6,7 - 8,1	170
380 0250 ..	25,0	240,0	8,4 - 10,2	260
380 0350 ..	35,0	336,0	9,7 - 11,7	360
380 0500 ..	50,0	480,0	11,5 - 13,9	515
380 0700 ..	70,0	672,0	13,2 - 16,0	710
380 0950 ..	95,0	912,0	15,1 - 18,2	940
380 1200 ..	120,0	1152,0	16,7 - 20,2	1180
380 1500 ..	150,0	1440,0	18,6 - 22,5	1480
380 1850 ..	185,0	1776,0	20,6 - 24,9	1805
380 2400 ..	240,0	2304,0	23,5 - 28,4	2350

Please complete the Part-No. .. when ordering with the following ref. number = Colour

00 black	11 beige	22 brownwhite	33 redblack
01 blue	12 dark blue	23 yellowblack	34 redyellow
02 brown	13 blackgreen	24 yellowred	35 redwhite
03 red	14 blackred	25 yellowwhite	36 whiteblack
04 white	15 blackwhite	26 greenblack	37 whiteblue
05 grey	16 blueblack	27 greenwhite	38 whitebrown
06 violet	17 bluegreen	28 violetblack	39 whitered
07 pink	18 bluered	29 violeyellow	40 greyblack
08 orange	19 bluewhite	30 violetwhite	50 transparent
09 yellow	20 brownblack	31 orangeblack	99 green/yellow
10 green	21 browngreen	32 orangewhite	

Note: Multicoloured cores with the exception of green/yellow are not harmonized types.
Solid and multiwire single cores of type H05V-U and H07V-U/R on request.

CC-single core PVC

H05V2-K-384

H07V2-K-384

Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 384 H07V2-K CE

H05V2-K:

PVC hook-up wire for internal wiring of electrical appliances for temperatures of up to 90°C on the conductor. The wire is ideal for protective wiring in appliances where higher temperatures can occur. It is not suitable for direct contact with appliances producing temperatures higher than 85°C.

H07V2-K:

PVC hook-up wire for inside wiring of electrical appliances as well as for the protective wiring to and in appliances that permit temperatures of up to 90°C. The wire is not suitable for direct laying on trays and racks.

Technical data

H05V2-K (300/500 V):

bare, fine copper strands acc. to VDE 0295, class 5. PVC core insulation TI3 flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Single colour and green/yellow.

H07V2-K (450/750 V):

bare, fine copper strands acc. to VDE 0295, class 5. PVC core insulation TI3 flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Single colour and green/yellow.

Temperature range:

fixed installation: -10°C to +105°C
flexible application: +5°C to + 90°C

Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
H05V2-K				
384 0005 ..	0,50	5,5	2,1 - 2,5	8
384 0007 ..	0,75	8,0	2,2 - 2,7	12
384 0010 ..	1,0	10,8	2,4 - 2,8	18
H07V2-K				
384 0015 ..	1,5	15,0	2,8 - 3,4	22
384 0025 ..	2,5	25,0	3,4 - 4,1	37
384 0040 ..	4,0	40,0	3,9 - 4,8	50
384 0060 ..	6,0	60,0	4,4 - 5,3	71
384 0100 ..	10,0	100,0	5,7 - 6,8	130
384 0160 ..	16,0	160,0	6,7 - 8,1	187
384 0250 ..	25,0	240,0	8,4 - 10,2	294
384 0350 ..	35,0	336,0	9,7 - 11,7	380

Please complete the Part-No... when ordering with the following ref. number = Colour

00 black	04 white	08 orange	11 beige
01 blue	05 grey	09 yellow	12 darkblue
02 brown	06 violet	10 green	99 green/yellow
03 red	07 pink		

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CC-single core LiFY-363

High flexible, fine stranded single core 1 kV
Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 363 LiFY 1 kV CE

The high flexible CC-single core LiFY-363 is mainly used for connecting appliances often moved from place to place, e.g., measuring appliance wire in a laboratory or for rapid temporary installation of testing appliances.

Construction

Bare, fine strands of copper wire,
PVC core insulation,
flame retardant and self-extinguishing
(acc. to VDE 0482, part 265-2-1 resp.
EN 50265-2-1 and IEC 60332-1).
Single colour and green/yellow.

Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
363 00010 0..	0,10	1,2	1,0	2
363 00014 0..	0,14	1,4	1,1	3
363 00025 0..	0,25	2,5	1,4	4
363 00050 0..	0,50	5,5	2,0	8
363 00075 0..	0,75	8,0	2,2	12
363 00100 0..	1,0	10,8	2,5	18
363 00150 0..	1,5	15,0	3,5	22
363 00250 0..	2,5	25,0	3,8	37
363 00400 0..	4,0	40,0	5,0	50
363 00600 0..	6,0	60,0	6,5	71
363 01000 0..	10,0	100,0	7,5	130
363 01600 0..	16,0	160,0	9,0	187
363 02500 0..	25,0	240,0	10,5	294
363 03500 0..	35,0	336,0	11,7	380
363 05000 0..	50,0	480,0	14,7	521
363 07000 0..	70,0	672,0	17,0	740

Please complete the Part-No... when ordering with the following ref. number = colour

00 black	04 white	08 orange	11 beige
01 blue	05 grey	09 yellow	12 darkblue
02 brown	06 violet	10 green	99 green/yellow
03 red	07 pink		

Note: 6mm² and larger only core colours bk, rd, bl, bn, gnye available from stock

Technical data

Rated voltage:
1000 V

Test voltage:
3000 V

Conductor stranding:
bare, fine copper strands
acc. to VDE 0295, class 6 (0,07 mm wire-Ø)

Insulation resistance:
min. 20 MOhm × km

Temperature range:
-15°C to +80°C

Bending radius:
7 × cable diameter

Approvals:
acc. to VDE 0281

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CC-single core PVC UL/CSA

UL style 1007/1569, CSA TR 64

Conforms to the EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt  AWM STYLE 1569 VW1-CSA TR 64 FT1 300 V 105 °C CE

ConCab kabel Mainhardt  AWM STYLE 1569 VW1-CSA TR 64 FT1 300 V 105 °C CE

Technical data

Rated voltage:
300 V

Test voltage:
3000 V

Spark test (Test voltage):
AWG 28 - 20: 4 kV
AWG 18 - 10: 5 kV

Core insulation:
PVC mixture acc. to UL: VW-1,
CSA: FT 1

Insulation resistance:
min. 20 MOhm \times km

Approvals:
AWG 32 - 16: UL style 1007 (300 V/80°C)
AWG 28 - 10: UL style 1569 (300 V/105°C)
CSA TR 64 (300V/90°C)

The CC-single cores acc. to UL/CSA are suitable for internal wiring of electrical appliances, switchgear cabinets and telecommunication systems. They can also be used to connect machines and motors provided they are laid in protective pipes or flexible conduits.

Construction

Bare or tinned fine strands of copper wire, PVC core insulation (acc. to UL style 1007/1569 and CSA TR64).

For colours refer to adjacent table.

UL = Underwriters Laboratories Inc. (USA)
CSA = Canadian Standards Association (Canada)

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Part-No.	AWG	Cross-section mm ²	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
1007 28 . . .	28	0,08	0,8	1,2	2,8
1007 26 . . .	26	0,13	1,3	1,3	3,2
1007 24 . . .	24	0,22	2,1	1,4	4,3
1007 22 . . .	22	0,34	3,3	1,6	6,0
1007 20 . . .	20	0,56	5,4	1,9	8,5
1007 18 . . .	18	0,80	7,7	2,2	12,5
1007 16 . . .	16	1,30	12,0	2,5	18,5
1007 14 . . .	14	2,10	20,0	2,9	29,0
1007 12 . . .	12	3,30	33,0	3,9	40,0
1007 10 . . .	10	5,26	51,6	4,1	61,0

Specification:

Please complete the Part No. when ordering with the following ref.number:

- 0 = Cu bare
- 1 = Cu tinned

See list overview

Specification

Colour


- | | | | |
|-----------|---------------|-----------------|-----------------|
| 00 black | 11 beige | 22 brownwhite | 33 redblack |
| 01 blue | 12 darkblue | 23 yellowblack | 34 redyellow |
| 02 brown | 13 blackgreen | 24 yellowred | 35 redwhite |
| 03 red | 14 blackred | 25 yellowwhite | 36 whiteblack |
| 04 white | 15 blackwhite | 26 greenblack | 37 whiteblue |
| 05 grey | 16 blueblack | 27 greenwhite | 38 whitebrown |
| 06 violet | 17 bluegreen | 28 violetblack | 39 whitered |
| 07 pink | 18 bluered | 29 violetyellow | 40 greyblack |
| 08 orange | 19 bluewhite | 30 violetwhite | 50 transparent |
| 09 yellow | 20 brownblack | 31 orangeblack | 99 green/yellow |
| 10 green | 21 browngreen | 32 orangewhite | |


CC-single core PVC MTW or AWM

UL style 1015/1028/1283/1284, CSA-TEW (600V/105°C)

Conforms to the EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt  AWM OR MTW STYLE 1015 VW1-CSA TEW FT1 600 V 105 °C

ConCab kabel Mainhardt  AWM OR MTW STYLE 1015 VW1-CSA TEW FT1 600 V 105 °C

Technical data

Rated voltage:
600 V

Test voltage:
3000 V

Spark test (Test voltage):

AWG 24 : 4 kV

AWG 22 - 20: 5 kV

AWG 18 - 10: 6 kV

≥ AWG 8 : 7,5 kV

The CC-single core MTW or AWM is suitable for appliance wiring and machine tool wiring as well as in control systems. They can also be used in pipes and flexible conduits.

Core insulation:

PVC mixture acc. to UL: VW-1,
CSA: FT 1

Construction

Bare or tinned fine strands of copper wire, PVC core insulation acc. to UL-MTW or AWM style 1015, 1028, 1283, 1284 and CSA-TEW. For colours refer to adjacent table.

Insulation resistance:

min. 20 MOhm × km

Approvals:

AWG 28 - 9: UL MTW or AWM style 1015

AWG 8 : UL MTW or AWM style 1028

AWG 6 - 2: UL MTW or AWM style 1283

AWG 1-4/0: UL MTW or AWM style 1284

CSA-TEW

UL = Underwriters Laboratories Inc. (USA)
CSA = Canadian Standards Association (Canada)
MTW = Machine Tool Wire

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Part-No.	AWG	Cross-section mm ²	Copper weight kg/km	Outer-diameter approx. mm	Weight kg/km
UL Style MTW or AWM 1015, 1028, 1283, 1284, CSA TEW 600V/105°C tinned					
1015 24 ...	24	0,22	2,1	2,2	7
1015 22 ...	22	0,34	3,3	2,4	9
1015 20 ...	20	0,56	5,5	2,7	12
1015 18 ...	18	0,80	8,5	2,9	16
1015 16 ...	16	1,38	13,5	3,3	24
1015 14 ...	14	2,10	20,7	3,4	33
1015 12 ...	12	3,30	33,5	4,0	42
1015 10 ...	10	5,26	52,4	5,1	65
1283 08 ...	8	8,39	80,6	6,6	110
1283 06 ...	6	13,3	129,4	8,2	175
1283 04 ...	4	21,2	202,9	9,8	260
1283 03 ...	3	26,7	255,4	10,2	340
1283 02 ...	2	33,6	317,0	11,6	380
1284 01 ...	1	42,4	399,0	14,0	500
1284 1 ...	1/0	53,7	496,0	15,0	608
1284 2 ...	2/0	67,6	642,0	16,0	770
1284 3 ...	3/0	85,0	794,0	18,5	1179
1284 4 ...	4/0	107,2	1000,5	20,2	1521
600V/105°C bare					
1284 250 ...	MCM 250	127,0	1178,0	19,6	1280
1284 300 ...	MCM 300	152,0	1410,0	20,9	1518
1284 350 ...	MCM 350	178,0	1645,0	22,2	1756
1284 500 ...	MCM 500	254,0	2345,0	25,8	2475

Specification: Please complete the Part No. when ordering with the following ref.number:

0 = Cu bare
1 = Cu tinned

See list overview

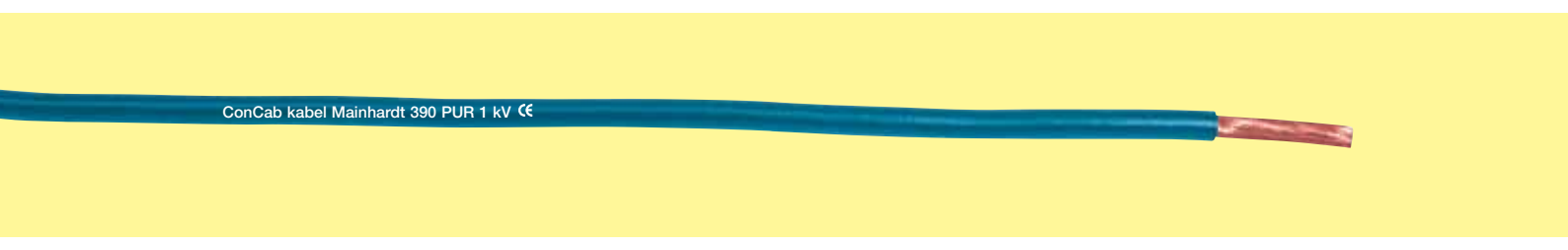
Specification _____

Colour _____

00 black	11 beige	22 brownwhite	33 redblack
01 blue	12 darkblue	23 yellowblack	34 redyellow
02 brown	13 blackgreen	24 yellowred	35 redwhite
03 red	14 blackred	25 yellowwhite	36 whiteblack
04 white	15 blackwhite	26 greenblack	37 whiteblue
05 grey	16 blueblack	27 greenwhite	38 whitebrown
06 violet	17 bluegreen	28 violetblack	39 whitered
07 pink	18 bluered	29 violetyellow	40 greyblack
08 orange	19 bluered	30 violetwhite	50 transparent
09 yellow	20 brownblack	31 orangeblack	99 green/yellow
10 green	21 browngreen	32 orangewhite	

CC-single core PUR-390

Halogen-free, cold resistant single core, 1 kV
Conforms to the EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 390 PUR 1 kV CE

The CC-single core PUR-390 is suitable for installation purposes requiring zero halogen and resistant to mechanical stress. The insulation is extensively resistant to oil, fat, acid and lye.

Construction

Bare fine strands of copper wire, PUR core insulation, cold-resistant and flame retardant (acc. to VDE 0482, part 265-2-1 resp. EN 50265-2-1 and IEC 60332-1).
Single colour and green/yellow.

Technical data

Rated voltage:
1000 V

Test voltage:
3000 V

Conductor stranding:
fine copper strands
acc. to VDE 0295, class 5

Insulation resistance:
min. 10 MOhm × km

Temperature range:
-40°C to +80°C

Bending radius:
10 × core diameter

Approvals:
acc. to VDE 0281



Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
390 0005 ...	0,50	4,8	2,2	8
390 0007 ...	0,75	7,2	2,4	11
390 0010 ...	1,0	9,6	2,6	13
390 0015 ...	1,5	14,4	3,1	19
390 0025 ...	2,5	24,0	3,7	32
390 0040 ...	4,0	38,0	4,4	45
390 0060 ...	6,0	58,0	5,2	65
390 0100 ...	10,0	96,0	6,8	115
390 0160 ...	16,0	154,0	7,8	178
390 0250 ...	25,0	240,0	10,2	250
390 0350 ...	35,0	336,0	11,6	335
390 0500 ...	50,0	480,0	13,2	500
390 0700 ...	70,0	672,0	15,5	690
390 0950 ...	95,0	912,0	17,8	915
390 1200 ...	120,0	1152,0	19,4	1060
390 1500 ...	150,0	1440,0	22,3	1370

Specification:

Please complete the Part No. ...
when ordering with the following ref.number:

- 0 = Cu bare
- 1 = Cu tinned

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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See list overview

Specification

Colour

Please complete the Part No. ... when ordering with the following ref. number = Colour

- | | | | |
|----------|-----------|-----------|-----------------|
| 00 black | 04 white | 08 orange | 11 beige |
| 01 blue | 05 grey | 09 yellow | 12 darkblue |
| 02 brown | 06 violet | 10 green | 99 green/yellow |
| 03 red | 07 pink | | |

CC-halogen-free single core

H05Z-K-871

H07Z-K-871

Conforms to the EU low-voltage guideline 73/23/EEC CE

ConCab kabel Mainhardt 871 H07Z-K CE

The CC-halogen-free single core H05Z-K-871 and H07Z-K-871 exude little smoke and corrosive gases in the event of fire. They are ideal for installation purposes in dry rooms for wiring lights and appliances in buildings that demand a high standard of protection for humans and goods.

Construction

Bare or tinned, fine strands of copper wire, cross-linked polyolefine core insulation. Single colour and green/yellow.

Technical data

Rated voltage:

H05Z-K: 300/500 V

H07Z-K: 450/750 V

protected, fixed installation
0,6/1 kV (H07Z-K)

Test voltage:

2500 V

Conductor stranding:

fine copper strands
acc. to VDE 0295, class 5

Temperature range:

-40°C to +90°C

Bending radius:

8 × core diameter

Approvals:

acc. to VDE 0282, part 9
HD 22.9 S2

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
H05Z-K				
871 0005 ...	0,50	4,8	2,1 - 2,6	9
871 0007 ...	0,75	7,2	2,2 - 2,8	13
871 0010 ...	1,0	9,6	2,4 - 2,9	15
H07Z-K				
871 0015 ...	1,5	14,4	2,8 - 3,9	21
871 0025 ...	2,5	24,0	3,4 - 4,3	34
871 0040 ...	4,0	38,0	3,9 - 4,9	47
871 0060 ...	6,0	58,0	4,4 - 5,5	72
871 0100 ...	10,0	96,0	5,7 - 7,1	120
871 0160 ...	16,0	154,0	6,7 - 8,4	190
871 0250 ...	25,0	240,0	8,4 - 10,6	290
871 0350 ...	35,0	336,0	9,7 - 12,1	400
871 0500 ...	50,0	480,0	11,5 - 14,4	550
871 0700 ...	70,0	672,0	13,2 - 16,6	770
871 0950 ...	95,0	912,0	15,1 - 18,8	1010
871 1200 ...	120,0	1152,0	16,7 - 20,9	1210
871 1500 ...	150,0	1440,0	18,6 - 23,3	1500
871 1850 ...	185,0	1776,0	20,6 - 25,8	1850
871 2400 ...	240,0	2304,0	23,5 - 29,4	2450

Specification: Please complete the Part No. when ordering with the following ref.number:

0 = Cu bare

1 = Cu tinned

See list overview

Specification

Colour

- | | | | |
|----------|-----------|-----------|-----------------|
| 00 black | 04 white | 08 orange | 11 beige |
| 01 blue | 05 grey | 09 yellow | 12 darkblue |
| 02 brown | 06 violet | 10 green | 99 green/yellow |
| 03 red | 07 pink | | |

CC-earthing cable ESY-356 and ESUY-357

Safety earthing cable

Conforms to the EU low-voltage guideline 73/23/EEC CE



ConCab kabel Mainhardt 357 ESUY CE

The CC-earthing cable ESY-356 and ESUY-357 is applied as safety earthing rope during repair work for earthing current carrying parts in power installations of power supply stations and railway systems. Its high flexibility makes it ideal for equipotential bonding in all kinds of machines and even EDP installations.

Construction

ESY:

Bare, superfine strands of copper wire, PVC core insulation. Colour transparent.

ESUY:

Bare, superfine strands of copper wire, braiding of bare, superfine strands of copper wire. PVC core insulation. Colour transparent.

Technical data

Power rating:
refer to VDE 0103, 0105

Test voltage:
2000 V

Conductor stranding:

ESY:

bare, superfine copper strands
wire diameter with 0,20 mm

ESUY:

bare, superfine copper strands
wire diameter at 16 mm² 0,07 mm
wire diameter from 25 mm² 0,10 mm

Insulation resistance:

min. 20 MOhm × km

Temperature range:

-5°C to +70°C

Bending radius:

12 × cable diameter

Approvals:

acc. to VDE 0683

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Part-No.	Cross-section	Copper weight kg/km	Outer diameter approx. mm	Weight kg/km
ESY				
356 0160	16	155	8,6	190
356 0250	25	240	10,1	275
356 0350	35	336	12,6	395
356 0500	50	480	14,1	580
356 0700	70	672	17,3	815
356 0950	95	912	19,6	1085
356 1200	120	1152	22,9	1325
356 1500	150	1440	25,5	1685
ESUY				
357 0160	16	194	9,2	235
357 0250	25	280	10,6	345
357 0350	35	415	12,7	485
357 0500	50	585	14,5	670
357 0700	70	820	17,3	905
357 0950	95	1090	19,9	1220
357 1200	120	1360	21,5	1506
357 1500	150	1650	24,1	1940
357 1850	185	2150	27,5	2390
357 2400	240	2750	31,0	3092
ESY tinned				
356 0161	16	155	8,6	190
356 0251	25	240	10,1	275
356 0351	35	336	12,6	395
356 0501	50	480	14,1	580
356 0701	70	672	17,3	815
356 0951	95	912	19,6	1085
356 1201	120	1152	22,9	1325
356 1501	150	1440	25,5	1685
ESUY tinned				
357 0161	16	194	9,2	235
357 0251	25	280	10,6	345
357 0351	35	415	12,7	485
357 0501	50	585	14,5	670
357 0701	70	820	17,3	905
357 0951	95	1090	19,9	1220
357 1201	120	1360	21,5	1506
357 1501	150	1650	24,1	1940
357 1851	185	2150	27,5	2390
357 2401	240	2750	31,0	3092

Leiterwiderstand

$$R = \frac{\rho \times L}{A}$$

$$R = \frac{L}{\kappa \times A}$$

$$G = \frac{1}{R}$$

$$\rho = \frac{1}{\kappa}$$

R = elektrischer Widerstand in Ω bei 20°C
 G = elektrischer Leitwert in S
 A = Leiterquerschnitt in mm^2
 L = Länge des Leiters in m
 ρ = spezifischer Widerstand in $\Omega \times \text{mm}^2/\text{m}$
 κ = Leitfähigkeit in $\text{m}/\Omega \times \text{mm}^2$

Beispiel

$L = 1000 \text{ m}; \kappa = 58 \text{ m}/\Omega \times \text{mm}^2$
 $A = 0,75 \text{ mm}^2$
 $R = \frac{L}{\kappa \times A}$
 $R = \frac{1000}{58 \times 0,75} = 23 \Omega$

INTERBUS

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Querschnittsberechnung von Litzen und Drähten

$$A = \frac{d^2 \times \pi \times n}{4}$$

$$D = \sqrt{1,34 \times n \times d}$$

A = Litzenquerschnitt in mm^2
 D = Litzendurchmesser in mm
 n = Anzahl der Einzeldrähte
 d = Einzeldraht- \varnothing in mm



Appendix



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Core Identification

According to DIN 47 100

1 white	12 redblue	23 whitered	34 yellowred
2 brown	13 whitegreen	24 brownred	35 greenblack
3 green	14 browngreen	25 whiteblack	36 yellowblack
4 yellow	15 whiteyellow	26 brownblack	37 greyblue
5 grey	16 yellowbrown	27 greygreen	38 pinkblue
6 pink	17 whitegrey	28 yellowgrey	39 greyred
7 blue	18 greybrown	29 pinkgreen	40 pinkred
8 red	19 whitepink	30 yellowpink	41 greyblack
9 black	20 pinkbrown	31 greenblue	42 pinkblack
10 violet	21 whiteblue	32 yellowblue	43 blueblack
11 greypink	22 brownblue	33 greenred	44 redblack

For more than 44 cores, there is no DIN colour code available - colours repeat starting at 45. The first colour describes the base colour of the core insulation; the second colour describes the colour imprinted on the insulation in ring form.

According to* DIN 47 100 without colour repetition

1 white	15 whiteyellow	29 pinkgreen	43 blueblack	57 whiteblueblack*
2 brown	16 yellowbrown	30 yellowpink	44 redblack	58 brownblueblack*
3 green	17 whitegrey	31 greenblue	45 whitebrownblack*	59 whiteredblack*
4 yellow	18 greybrown	32 yellowblue	46 yellowgreenblack*	60 brownredblack*
5 grey	19 whitepink	33 greenred	47 greypinkblack*	61 blackwhite*
6 pink	20 pinkbrown	34 yellowred	48 redblueblack*	
7 blue	21 whiteblue	35 greenblack	49 whitegreenblack*	
8 red	22 brownblue	36 yellowblack	50 browngreenblack*	
9 black	23 whitered	37 greyblue	51 whiteyellowblack*	
10 violet	24 brownred	38 pinkblue	52 yellowbrownblack*	
11 greypink	25 whiteblack	39 greyred	53 whitegreyblack*	
12 redblue	26 brownblack	40 pinkred	54 greybrownblack*	
13 whitegreen	27 greygreen	41 greyblack	55 whitepinkblack*	
14 browngreen	28 yellowgrey	42 pinkblack	56 pinkbrownblack*	

* divergence to DIN: from 45th core without colour repetition.

According to VDE 0293-308 HD 308.S2 2003-01		
fixed installation		
No. of cores	cable with green/yellow conductor (abbreviation "J")	cable without green/yellow conductor (abbreviation "O")
2	--	bu / bn
3	gnye / bu / bn	bn / bk / gy
3a*	bu / bn / bk	
4	gnye / bn / bk / gy	bu / bn / bk / gy
4a*	gnye / bu / bn / bk	
5	gnye / bu / bn / bk / gy	bu / bn / bk / gy / bk
6 and more	gnye / cores black with consecutive white numbering, starting at the inner layer with 1, green/yellow in the outer layer	cores black with consecutive white numbering, starting at at the inner layer with 1
flexible application		
No. of cores	cable with green/yellow conductor	cable without green/yellow conductor
2	--	bu / bn
3	gnye / bu / bn	bn / bk / gy
3a*	bu / bn / bk	
4	gnye / bn / bk / gy	bu / bn / bk / gy
4a*	gnye / bu / bn / bk	
5	gnye / bu / bn / bk / gy	bu / bn / bk / gy / bk
6 and more	gnye / cores black with consecutive white numbering, starting at the inner layer with 1, gnye in the outer layer	cores black with consecutive white numbering, starting at at the inner layer with 1
a* only for special application		
According to VDE 0293 1990-01		
fixed installation		
No. of cores	cable with green/yellow conductor (abbreviation "J")	cable without green/yellow conductor (abbreviation "O")
2	--	bk / bu
3	gnye / bk / bu	bk / bu / bn
4	gnye / bk / bu / bn	bk / bu / bn / bk
5	gnye / bk / bu / bn / bk	bk / bu / bn / bk / bk
6 and more	gnye / cores black with consecutive white numbering, starting at the inner layer with 1, green/yellow in the outer layer	cores black with consecutive white numbering, starting at at the inner layer with 1
flexible application		
No. of cores	cable with green/yellow conductor	cable without green/yellow conductor
2	--	bk / bu
3	gnye / bn / bu	bk / bu / bn
4	gnye / bk / bu / bn	bk / bu / bn / bk
5	gnye / bk / bu / bn / bk	bk / bu / bn / bk / bk
6 and more	gnye / additional cores bk with consecutive white numbering starting at the inner layer with 1, green/yellow in the outer layer	cores bk with numbers cores black with consecutive white numbering, starting at at the inner layer with 1

Core identification

According to CC-colour code

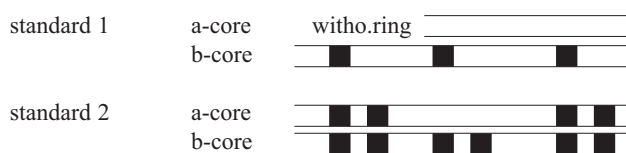
Counting from inside to outside. The protective conductor (green yellow) is the last core.
For cables up to 5 cores inclusive, cores are identified by VDE 0293 colour code for connecting mobile electrical equipment.

0	greenyellow	34	pink-blue	68	orange-white-black
1	white	35	orange-blue	69	transparent-white-black
2	black	36	transparent-blue	70	beige-white-black
3	blue	37	beige-blue	71	brown-white-blue
4	brown	38	grey-brown	72	grey-white-blue
5	grey	39	red-brown	73	red-white-blue
6	red	40	violet-brown	74	violet-white-blue
7	violet	41	pink-brown	75	pink-white-blue
8	pink	42	orange-brown	76	orange-white-blue
9	orange	43	transparent-brown	77	transparent-white-blue
10	transparent	44	beige-brown	78	beige-white-blue
11	beige	45	red-grey	79	grey-white-brown
12	black-white	46	violet-grey	80	red-white-brown
13	blue-white	47	pink-grey	81	violet-white-brown
14	brown-white	48	orange-grey	82	pink-white-brown
15	grey-white	49	transparent-grey	83	orange-white-brown
16	red-white	50	beige-grey	84	transparent-white-brown
17	violet-white	51	orange-red	85	beige-white-brown
18	pink-white	52	transparent-red	86	red-white-grey
19	orange-white	53	beige-red	87	violet-white-grey
20	transparent-white	54	pink-violet	88	pink-white-grey
21	beige-white	55	orange-violet	89	orange-white-grey
22	blue-black	56	transparent-violet	90	transparent-white-grey
23	brown-black	57	beige-violet	91	beige-white-grey
24	grey-black	58	transparent-pink	92	blue-white-red
25	red-black	59	beige-pink	93	brown-white-red
26	violet-black	60	transparent-orange	94	violet-white-red
27	pink-black	61	beige-orange	95	pink-white-red
28	orange-black	62	blue-white-black	96	orange-white-red
29	transparent-black	63	brown-white-black	97	brown-white-violet
30	beige-black	64	grey-white black	98	orange-white-violet
31	brown-blue	65	red-white-black	99	brown-black-blue
32	grey-blue	66	violet-white-black	100	grey-black-blue
33	red-blue	67	pink-white-black	101	red-black-blue

According to VDE 0815 and 0816 for telephone indoor and outdoor cables

J-YY / A-2YF(L)2Y / A-2Y(L)2Y

identification with black rings



Basic colours of the core insulation of the 5 star quad of a bundle

quad 1	red	quad 4	yellow
quad 2	green	quad 5	white
quad 3	grey		

The numerical bundles are marked with red spirals.

J-Y(St)Y

with 2-pair installation cable:

1. pair: a-core red, b-core black
2. pair: a-core white, b-core yellow

with 4- and more paired installation cables:

a-core with 1. pair every layer red, with all other pairs white

b-core blue, yellow, brown, black in continuous sequence. Counting from outside to inside.

According to VDE 0815 for electronic cables JE-LiYCY and JE-Y(St)Y

Identification


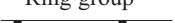



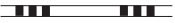
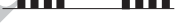



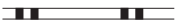
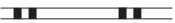
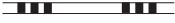







The core pairs are identified by the basic colours of the insulation sheath which repeat themselves in the same sequence in every bundle.

The bundles are identified by the colours of the ring on the core insulation sheath and the sequence of the colour rings in groups. The ring groups have an interspace of 60 mm.

Basic colours of pairs	Paar	1	2	3	4
	a-core	blue	grey	green	white
	b-core	red	yellow	brown	black

Cables with more than 12 bundles, the 13th and subsequent bundles have coloured spirals.

Counting of the bundles begins from the most inner layer.

Bundle	Ring colour	Ring group	Bundle spiral	Bundle	Ring colour	Ring group	Bundle spiral
1	pink		—	13	pink		blue
2	pink		—	14	pink		blue
3	pink		—	15	pink		blue
4	pink		—	16	pink		blue
5	orange		—	17	orange		red
6	orange		—	18	orange		red
7	orange		—	19	orange		red
8	orange		—	20	orange		red
9	violet		—				
10	violet		—				
11	violet		—				
12	violet		—				

Insulation classes according to VDE 0530

Insulation class	max. permitted const. temperature	Insulation material	CC-cable types
Y	90°C	PVC, rubber, PUR, neoprene, halogen-free copolymers	CC-flat, round and CC-control cables CC-rubber cables CC-PUR cables CC-halogen-free cables CC-single cores
A (E)	105°C	PVC	CC-Therm 105°C CC-UL/CSA single cores
B	130°C	EVA, ETFE	CC-special single cores and cables
F	155°C	polymer mixture on EVA-basis	CC-Therm 150°C CC-Therm 150°C CC-Therm 150 °C single cores
H	180°C	silicone	CC-silicone cables CC-silicone single cores
C	>180°C	FEP, PTFE impregnated glass fibre and mineral fibre	CC-FEP/PTFE single cores CC-FEP/PTFE multicore cables CC-Nonflam single cores 450°C CC-Nonflam multicore cables 450°C

Conductor resistance

Conductor resistance for fine conductors (extract from VDE 0295 and in accordance with international regulation IEC 60228).
Decisive for the construction of the conductor is the max. \varnothing of the individual wires and the max. conductor resistance.

Nominal- cross- section mm ²	conductor resistance at 20° C for 1 km in Ω (average max. value)			
	tinned wires		bare wires	
	class 1 + 2	class 5 + 6	class 1 + 2	class 5 + 6
0,05		~ 250		~ 243
0,14		~ 142		~ 138
0,25		~ 82		~ 79
0,34		~ 59		~ 57
0,5	36,7	40,1	36,0	39,0
0,75	24,8	26,7	24,5	26,0
1	18,2	20,0	18,1	19,5
1,5	12,2	13,7	12,1	13,3
2,5	7,56	8,21	7,41	7,98
4	4,70	5,09	4,61	4,95
6	3,11	3,39	3,08	3,30
10	1,84	1,95	1,83	1,91
16	1,16	1,24	1,15	1,21
25	0,734	0,795	0,727	0,780
35	0,529	0,565	0,524	0,554
50	0,391	0,393	0,387	0,386
70	0,270	0,277	0,268	0,272
95	0,195	0,210	0,193	0,206
120	0,154	0,164	0,153	0,161
150	0,126	0,132	0,124	0,129
185	0,100	0,108	0,0991	0,106
240	0,0762	0,0817	0,0754	0,0801
300	0,0607	0,0654	0,0601	0,0641

Power rating

Current carrying capacity

Admissible loadability of flexible cables with a rated voltage of up to 1000 V at an ambient temperature of 30° C (extract from VDE 0298 part 4, VDE 0100 part 523 as well as VDE 0891).

Nominal-cross-section mm ²	Group 1		Group 2		Group 3		
	Load-ability max. A	fuse A	Load-ability max. A	fuse A	Load-ability max. A	fuse A	
<u>Group 1</u> single core cables in duct, e.g., H05V...	0,05	0,8	--	1	--	1,5	--
	0,14	1,5	--	2	--	3	--
	0,25	3,0	--	4	--	5	--
	0,34	4,5	--	6	--	8	--
	0,50	7,0	--	9	--	12	--
<u>Group 2</u> Multicore cables e.g., control cables	0,75	9,0	--	12	6	15	10
	1	11	6	15	10	19	10
	1,5	15	10	18	10	24	20
	2,5	20	16	26	20	32	25
	4	25	20	34	25	42	35
<u>Group 3</u> Single core cables, laid open in air e.g.: wiring in switch cabinets	6	33	25	44	35	54	50
	10	45	35	61	50	73	63
	16	61	50	82	63	98	80
	25	83	63	108	80	129	100
	35	103	80	135	100	158	125
	50	132	100	168	125	198	160
	70	165	125	207	160	245	200
	95	197	160	250	200	292	250
	120	235	200	292	250	344	315
	150	--	--	335	250	391	315
	185	--	--	382	315	448	400
	240	--	--	453	400	528	400
	300	--	--	523	400	608	500

Conversion factors for changing ambient temperatures acc. to VDE 0298, part 4

Insulation material	PVC / PUR / TPE
permissible operating temp.	70°C / 80°C
Ambient temperature °C	Power rating factor
10	1,22
15	1,17
20	1,12
25	1,06
30	1,0
35	0,94
40	0,87
45	0,79
50	0,71
55	0,61
60	0,50

Comparison of former VDE-cables (VDE 0250) to harmonized cables (VDE 0281 and VDE 0282)

PVC cables			
Identification acc. to HAR	old abbreviation acc. to VDE 0250	new abbreviation acc. to VDE 0281	acc. to VDE 0281
hook-up wire 300/500V solid wire	NYFA	H05V-U	part 3
fine wires	NYFAF	H05V-K	part 3
hook-up wire 450/750V solid wire	NYA	H07V-U	part 3
fine wires	NYAF	H07V-K	part 3
Light twin cables	NLYZ	H03VH-Y	part 5
Twin cables	NYZ	H03VH-H	part 5
Flexible cables 300/300V round	NYLHY round	H03VV-F	part 5
flat	NYLHY flat	H03VVH2-F	part 5
Flexible cables 300/500V round	NYMHY round	H05VV-F	part 5
flat	NYMHY flat	H05VVH2-F	part 5
hook-up wire 90°C solid wire	NYFAw	H05V2-U	part 7
fine wires	NYFAFw	H05V2-K	part 7
Ridge cables for lights	NYIFY	H03VH7H-F	part 11
Flat cables	NYFLY	H05VVH6-F	part 403
	NYFLY	H07VVH6-F	part 404

Rubber cables			
Identification acc. to HAR	old abbreviation acc. to VDE 0250	new abbreviation acc. to VDE 0282	acc. to VDE 0282
Silicone cables	N2GAFU	H05SJ-K	part 3
Flexible cord	NSA	H03RT-F	part 4
Flexible rubber 300/500V	NLH	H05RR-F	part 4
Flexible rubber 300/500V	NMHÖU	H05RN-F	part 4
Flexible rubber 450/750V	NSHÖU, NMHÖU	H07RN-F	part 4
Welding cables	NSLFFÖU	H01N2-D H01N2-E	part 6
Core conductor (110°C) solid wire	N4GA	H07G-U	part 7
fine wires	N4GAF	H07G-K	part 7
EPR insulated high-voltage cable with PUR sheath	NGMH11YÖ	H05BQ-F H07BQ-F	part 10
Lift control cables	NFLG	H05RND3-F H07RND3-F	part 807
	NFLGC	H05RC4ND3-F H07RC4ND3-F	part 807

Code designation for harmonized cables

ABBREVIATION FOR DESIGN

Example: Oil resisting shielded PVC-control cable 27 G 0,75mm² acc. to VDE 0281, part 3

H 05 V V C4 V5 C4 — K 27 G 0,75

IDENTIFICATION FEATURE

- A Recognised national types
- H Harmonized standard types

RATED VOLTAGE U

- 01 100V
- 03 300/300V
- 05 300/500V
- 07 450/750V

INSULATION MATERIAL

- B (EPR) Ethylene propylene rubber
- G (EVA) Ethylene vinyl acetate copolymer
- N2 (CR) Chloroprene rubber
- R (NR,SR) Natural synthetic rubber mixture
- S (SiR) Silicone rubber
- V (PVC) Polyvinyl chloride
- V2 (PVC) Heat-resistant polyvinyl chloride
- V3 (PVC) Cold-resistant polyvinyl chloride
- V4 (PVC) cross-linked polyvinyl chloride
- Z (TPE-0) cross-linked polyolefine

INNER SHEATH

(coding for sheath material)

CONSTRUCTION ITEMS

- C4 Shield/braid
- Q4 (PA) Additional polyamide core sheath
- T Additional textile braiding over twisted cores

SHEATH MATERIAL

- B (EPR) Ethylene propylene rubber
- G (EVA) Ethylene vinyl acetate copolymer
- J Glass-fibre braiding
- N (CR) Chloroprene rubber
- N4 (CR) Heat-resistant chloroprene rubber
- Q (PUR) Polyurethane
- R (NR or SR) Natural or synthetic rubber mixture
- T Textile braiding
- V (PVC) Polyvinyl chloride
- V2 (PVC) Heat-resistant polyvinyl chloride,
- V4 (PVC) Cross-linked polyvinyl chloride,
- V5 (PVC) Oil resisting polyvinyl chloride

SPECIAL CONSTRUCTION FEATURES

- D3 Strain relief element (supporting element)
- D5 Centre core (non supporting element)
- FM Telecommunication cores integrated in power cables
- H Flat, separable twin cables
- H2 Flat non-seperable flexible two-core sheathed cable
- H6 Flat non-seperable multi-core sheathed cable
- H7 Double layer insulation sheath
- H8 Spiral cables

TYPES OF CONDUCTOR

- D Fine stranded for welding cables
- E Superfine stranded for welding cables
- F Fine stranded, class 5
- H Superfine stranded, class 6
- K Fine stranded (fixed installation)
- R Multiple stranded, round class 2
- U Solid wire, round class 1
- Y Tinsel wire

NO. OF CORES

PROTECTIVE CONDUCTOR

- G with protective conductor
- X without protective conductor

CONDUCTOR NOMINAL CROSS-SECTION in mm²

Abbreviation for power cables

Power cables with synthetic materials and sheaths

A	Aluminium conductor
Y	Insulation out of polyvinyl chloride (PVC)
2Y	Insulation out of thermo plastic polyethylene (PE)
X	Insulation out of cross-linked polyvinyl chloride (XLPVC)
2X	Insulation out of cross-linked polyethylene (XLPE)
H	Field limiting conductive layers over the conductor and insulation
HX	Insulation out of cross-linked halogen-free polymer mixture
C	Concentric conductor out of copper
CW	Concentric conductor out of copper in waveconal formation
CE	Concentric conductor with multicore cables over each individual core
S	Copper shield
SE	With multiwired cables there are field limiting, conductive layers over the conductor and the insulation as well as a copper shield over each individual core (abbreviation "H" omitted here)
F	Overhead conductor (DIN VDE 0274)
F	Armouring out of galvanized flat steel wires
FE	Insulation retained for a limited time
R	Armouring out of galvanized round steel wires
GB	Counter-twist out of galvanized steel band
HX	Sheath out of cross-linked halogen-free polymer mixture
Y	Inner and/or outer sheath out of polyvinyl chloride (PVC)
2Y	Outer sheath out of polyethylene (PE)

Abbreviation of conductor shapes

R	Conductor with circular cross-section
S	Conductor with sector-pattern cross-section
E	Solid conductor
M	Multiple stranded conductor
RE	Solid conductor, circular cross-section
RM	Multiple stranded conductor, circular cross-section
SE	Solid conductor, sector-pattern cross-section
SM	Multiple stranded conductor, sector-pattern cross-section
OM	Multiple stranded conductor, oval cross-section
H	Hollow conductor
/V	Compact conductor

Abbreviation for telecommunication cables

A	Outdoor cable
AB	Outdoor cable with lightning protection requirements
AJ	Outdoor cable with induction protection requirements
G	Mining cable
GJ	Mining cable with induction protection requirements
J	Installation cable
JE	Installation cable for industrial electronics
L	Flexible cables for telecommunication systems Cables with stranded wire conductor for heavy mechanical stress in telecommunication systems.
S	Switchboard cable for telephone systems
FE	Cable with insulation performance requirements against flames
M	Lead sheath
Mz	Hardened lead sheath
C	Shield out of copper wire braiding
(C)	Shield out of copper wire braiding over pair
(K)	Shield out of copper band
L	Smooth aluminium sheath
LD	Aluminium corrugated sheath
(L)2Y	Layered sheath
F(L)2Y	Centre core with petroleum jelly filling and layered sheath
W	Steel corrugated sheath
B	Armouring
C	Protective covering out of jute and viscous mass
Q	Armouring out of steel wire braid
(St)	Shield out of metal band or plastic laminated metal band
(Z)	Steel wire braiding over PVC inner sheath
E	Earth layer with embedded plastic band
T	Strain relief element
(Zg)	Strain relief out of bundled glass-fibre threads embedded in sheath
P	Insulation out of paper
Y	Insulation, inside or outside sheath out of polyvinyl chloride (PVC)
Yv	Reinforced outer sheath out of PVC
2Y	Insulation, inside or outside sheath out of polyethylene (PE)
2Yv	Reinforced outer sheath out of PE
02Y	Insulation out of cellular-PE
4Y	Insulation, inside or outside sheath out of polyamide (PA)
5Y	Insulation, inside or outside sheath out of polytetrafluorethylene (PTFE)
6Y	Insulation, inside or outside sheath out of perfluorethylene propylene (FEP)
7Y	Insulation, inside or outside sheath out of ethylene tetrafluorethylene (ETFE)
H	Insulation, inside or outside sheath out of halogen-free material
Bd	Bundle layers
DM	Dieselhorst-Martin-quad
Lg	Layered twisting
F	Star quad in railway telecommunication cable
St	Star quad mit phantom circuit
St I	Star quad semidirect line (telecommunication cable)
St III	Star quad in local cable
PiMF	Shielded pair (pair in metal foil)
S	Railway signal cable
TF	Star quad for carrier frequency technology

Abbreviation for fibre optic cables

Cable construction

A	Outdoor cable
AT	Seperable outdoor cable
IT	Seperable indoor cable
I	Indoor cable
S	Metal element in cable centre
F	Filling up the twisted hollow space of the cable centre with petroleum jelly
Q	Filling up the twisted hollow space of the cable centre with swelling medium
Y	PVC sheath
11Y	PUR sheath
H	Halogen-free sheath
2Y	PE sheath
(L)2Y	Layered sheath
(D)2Y	PE sheath with plastic blocking layer
(ZN)2Y	PE sheath with non-metal strain relief elements
(L)(ZN)2Y	Layered sheath with non-metal strain relief elements
(D)(ZN)2Y	PE sheath with plastic blocking layer and non-metal strain relief elements
B	Armouring
BY	Armouring with PVC protective sheath
B2Y	Armouring with PE protective sheath

Cores

F	Fibre without buffer
V	Tight buffer fibre
H	Single fibre loose buffer, unfilled
W	Single fibre loose buffer, filled
B	Multiple fibre loose buffer, unfilled
D	Multiple fibre loose buffer, filled

Fibre design

E	Single-mode fibre
G	Gradient fibre (quartz core / quartz cladding)
S	Step index fibre (quartz / quartz cladding)
Q	Quasi-step index fibre (quartz core / quartz cladding)
K	Step index fibre (quartz core / plastic cladding)
P	Step index quartz polymer fibre (plastic core / plastic cladding)

International HAR identification

In respect of the CENELEC agreement, an identification for harmonized cables and cables was made for the individual member states. This is based on the specification of the producer country together with the <HAR> Logo. Furthermore harmonized cables must have an identification colour tracer thread in the colours black, red and yellow whereby the length of the individual colours is defined precisely.

Country	Identification	Tracer thread			National testing centre	Abbreviation
		bk	rd	ye		
Belgium	CEBEC <HAR>	1	3	1	Comité Electrotechnique Belge	CEBEC
Denmark	<DEMKO> <HAR>	3	1	3	Danmarks Elektriske Materialkontroll	DEMKO
Germany	<VDE> <HAR>	3	1	1	Verband Deutscher Elektrotechniker e.V. VDE Prüf- und Zertifizierungsinstitut	VDE
Finland	SETI <HAR>	1	3	7	Elektiska Inspektorater	SETI
France	USE <HAR>	3	3	1	Union Technique de l'Electricité	UTE
Greece	ELOT <HAR>	3	3	7	Hellenic Organization for Standardization	ELOT
Great Britain	BASEC <HAR>	1	1	3	British Approvals Service for Cables	BASEC
Italy	IEMMEQU <HAR>	1	3	5	Instituto Italiano de Marchio Qualità	IMQ
Ireland	<NSAI> <HAR>	3	3	5	National Standards Authority of Ireland	NSAI
Netherland	KEMA-KEUR <HAR>	1	3	3	N.V. tot Keuring van Elektrotechnische Materialien	KEMA
Norway	NEMKO <HAR>	1	1	7	Norges Elektriske Materielkontroll	NEMKO
Austria	<ÖVE> <HAR>	3	1	5	Österreichischer Verband for Elektrotechnik	ÖVE
Portugal	<IPQ> <HAR>	1	1	9	Instituto Português da Qualidade	IPQ
Sweden	SEMKO <HAR>	1	1	5	Svenska Elektriska Materielkontrollanstalten	SEMKO
Switzerland	SEV <HAR>	1	3	9	Schweizerischer Elektrotechnischer Verein	SEV
Spain	AENOR <HAR>	3	1	9	Asociación Española de Normalización y Certificación	AENOR

Important VDE approvals

Standard	Topic
DIN VDE 0100 ff	Erection of power installations with nominal voltages up to 1000V
DIN VDE 0207 ff	Insulating and sheathing compounds for cables and flexible cords
DIN VDE 0245 ff	Cables, wires and flexible cords for power installation
DIN VDE 0250 ff	Cables, wires and flexible cords for power installation
DIN VDE 0276 ff	Power cables
DIN VDE 0281 ff	PVC-cables, wires and flexible cords for power installations
DIN VDE 0282 ff	Rubber insulated cables
DIN VDE 0293 ff	Identification of cores in cables and flexible cords used in power installations with nominal voltages up to 1000V
DIN VDE 0295	Conductors for cables , wires and flexible cords for power installation
DIN VDE 0298 ff	Application of cables and flexible cords in power installations
DIN VDE 0472 ff	Testing of cables, wires and flexible cords
DIN VDE 0482	General testing procedure of behaviour of cables and flexible cords in the event of fire
DIN VDE 0800 ff	Telecommunication technology general terms
DIN VDE 0812	Equipment wires and stranded equipment wires for telecommunications systems and data processing systems
DIN VDE 0813	Switchboard cables for telecommunication and data processing systems
DIN VDE 0814	Cords for telecommunication and data processing
DIN VDE 0815	Wiring cables for telecommunication and data processing
DIN VDE 0816 ff	External cables for telecommunication and data processing
DIN VDE 0888 ff	Fibre optic cables

International Institutes (abbreviations)

AFNOR	A ssociation F rançaise de N ormalisation (France)	IEE	I nstitution of E lectrical E ngineers (Great Britain)
ANSI	A merican N ational S tandards I nstitute (USA)	IEEE	I nstitute of E lectrical and E lectronics E ngineers US Association of Electro and Electronic Engineers
AS	A ustralian S tandard (Australia)	ISDN	I ntegrated S ervices D igital N etwork (International)
ASTM	A merican S tandard of T esting M aterials (USA)	ISO	I nternational O rganization for S tandardization (International)
BS	B ritish S tandard (UK)	KEMA	K euring van E lektrotechnische M aterialien (Netherland)
BSI	B ritish S tandard I nstitution (UK)	LCIE	L aboratoire C entral des I ndustries E lectriques (France)
BV	B ureau V eritas (France)	MIL	M ilitary S pecification (USA)
CATV	C ommunity A ntenna T elevision (International)	NEC	N ational E lectrical C ode (USA)
CEE	International C ommission on Rules for the Approval of E lectrical E quipment (International Commission)	NEMA	N ational E lectrical M anufacturers A ssociation (USA)
CEI	C ommission E lectrotechnique I nternationale (International)	NEMKO	N orges E lektriske M ateriell k ontroll (Norway)
CEMP	C entre d' E tude des M atières P lastiques (France)	NEN	N ederlands N ormalisatie- I nstituut (Netherland)
CENELEC	C omité E uropéen de N ormalisation E lectrotechniques (Europe)	NF	N ormes F rançaises (France)
CNET	C entre N ational d' E tude de T élécommunication (France)	NFC	N ormes F rançaises C lass C (France)
CNOMO	C omité de N ormalisation des M oyens de P roduction Commission for standards of tools and machine tools in the French automobile industry (France)	ÖVE	Ö sterreichischer V erband für E lektrotechnik (Austria)
CSA	C anadian S tandards A ssociation (Canada)	SAE	S ociety of A utomotive E ngineers (USA)
CSTB	C entre S cientifique et T echnique du B âtiment (France)	SEK	S venska E lektiska K ommissionen (Sweden)
DEMKO	D anmarks E lektriske M ateriell k ontroll (Denmark)	SEMKO	S venska E lektiska M ateriel k ontrollanstalten (Sweden)
DIN	D eutsches I nstitut für N ormung (Germany)	SEV	S chweizerischer E lektrotechnischer V erein (Switzerland)
DKE	D eutsche E lektrotechnische K ommission im D IN und V DE (Germany)	SNV	S chweizerischer N ormen v erband (Switzerland)
EN	E uropäische N ormen (European Standards)	UL	U nderwriters L aboratories Inc (USA).
ETSI	E uropean T elecommunications S tandards I nstitute (Europe)	UNI	U nificazione N azionale I taliana (Italy)
FAR	F ederal A ir R egulation (USA)	UTE	U nion T echnique de l' E lectricité (France)
FTZ	F ernmeldetechnisches Z entralamt (Germany)	VDE	V erein D eutscher E lektrotechniker e.V. (Germany)
GOST	U SSR- S tandards (USSR)	VDEW	V ereinigung D eutscher E lektizitätswerke e.V. (Germany)
HD	H armonisierungs- D okumente (International)	ZVEH	Z entral v erband der D eutschen E lektro- h andwerke e.V. (Germany)
HN	H armonisation des N ormes (France)	ZVEI	Z entral v erband der E lektrotechnik- und E lektronik- I ndustrie e.V. (Germany)
IEC	I nternational E lectrotechnical C ommission (International)		

Conductor stranding acc. to VDE 0295 resp. IEC 60228 (from 0,5mm²)

Cross-section	Multiple strands VDE 0295 class 2	Multiple strands	Fine strands VDE 0295 class 5	Superfine strands VDE 0295 class 6			
mm ²	column 1	column 2	column 3	column 4	column 5	column 6	column 7
0,14				18 × 0,1	18 × 0,1	36 × 0,07	72 × 0,05
0,25			14 × 0,15	32 × 0,1	32 × 0,1	65 × 0,07	128 × 0,05
0,34		7 × 0,25	19 × 0,15	42 × 0,1	42 × 0,1	88 × 0,07	174 × 0,05
0,38		7 × 0,27	12 × 0,20	21 × 0,15	48 × 0,1	100 × 0,07	194 × 0,05
0,50	7 × 0,30	7 × 0,30	16 × 0,20	28 × 0,15	64 × 0,1	131 × 0,07	256 × 0,05
0,75	7 × 0,37	7 × 0,37	24 × 0,20	42 × 0,15	96 × 0,1	195 × 0,07	384 × 0,05
1,0	7 × 0,43	7 × 0,43	32 × 0,20	56 × 0,15	128 × 0,1	260 × 0,07	512 × 0,05
1,5	7 × 0,52	7 × 0,52	30 × 0,25	84 × 0,15	192 × 0,1	392 × 0,07	768 × 0,05
2,5	7 × 0,67	19 × 0,41	50 × 0,25	140 × 0,15	320 × 0,1	651 × 0,07	1280 × 0,05
4,0	7 × 0,85	19 × 0,52	56 × 0,30	224 × 0,15	512 × 0,1	1040 × 0,07	
6,0	7 × 1,05	19 × 0,64	84 × 0,30	192 × 0,20	768 × 0,1	1560 × 0,07	
10	7 × 1,35	49 × 0,51	80 × 0,40	320 × 0,20	1280 × 0,1	2600 × 0,07	
16	7 × 1,70	49 × 0,65	128 × 0,40	512 × 0,20	2048 × 0,1		
25	7 × 2,13	84 × 0,62	200 × 0,40	800 × 0,20	3200 × 0,1		
35	7 × 2,52	133 × 0,58	280 × 0,40	1120 × 0,20			
50	19 × 1,83	133 × 0,69	400 × 0,40	705 × 0,30			
70	19 × 2,17	189 × 0,69	356 × 0,50	990 × 0,30	The number of wires indicated in the column is non binding.		
95	19 × 2,52	259 × 0,69	485 × 0,50	1340 × 0,30			
120	37 × 2,03	336 × 0,67	614 × 0,50	1690 × 0,30			
150	37 × 2,27	392 × 0,69	765 × 0,50	2123 × 0,30	The VDE 0295 only stipulates the max. diameter of the individual wires and the max. resistance allocated to the cross-section.		
185	37 × 2,52	494 × 0,69	944 × 0,50	1470 × 0,40			
240	61 × 2,24	627 × 0,70	1225 × 0,50	1905 × 0,40			
300	61 × 2,50	790 × 0,70	1530 × 0,50	2385 × 0,40			
400	61 × 2,89		2035 × 0,50				
500	61 × 3,23		1768 × 0,60				

Conductor dimensions acc. to AWG (American Wire Gage)

In areas with American influence and in computer technology, the copper wire dimensions are generally expressed in AWG numbers. The table below shows a comparison between AWG-numbers and metric dimensions.

AWG-stranded wires

AWG No.	conductor- \varnothing mm	cross-section approx. mm ²
500 MCM	20,7	254
400 MCM	18,9	203
350 MCM	17,3	178
300 MCM	16,0	152
250 MCM	14,6	127
4 / 0	11,68	107,2
3 / 0	10,40	85,0
2 / 0	9,27	67,6
0	8,25	53,4
1	7,35	42,4
2	6,54	33,6
3	5,83	26,7
4	5,19	21,2
5	4,62	16,8
6	4,11	13,3
7	3,67	10,6
8	3,26	8,35
9	2,91	6,62
10	2,59	5,27
11	2,30	4,15
12	2,05	3,31
13	1,83	2,63
14	1,63	2,08
15	1,45	1,65
16	1,29	1,31
17	1,15	1,04
18	1,024	0,823
19	0,912	0,653
20	0,812	0,519
21	0,723	0,412
22	0,644	0,325
23	0,573	0,259
24	0,511	0,205
25	0,455	0,163
26	0,405	0,128
27	0,361	0,102
28	0,321	0,0804
29	0,288	0,0646
30	0,255	0,0503
31	0,227	0,0400
32	0,202	0,0320
33	0,180	0,0252
34	0,160	0,0200
35	0,143	0,0151
36	0,127	0,0123
37	0,113	0,0100
38	0,101	0,00795

AWG-solid wires

AWG No.	conductor- \varnothing mm	cross-section approx. mm ²
4/0	11,684	107,2
3/0	10,404	85,0
2/0	9,266	67,4
1/0	8,252	53,5
1	7,348	42,4
2	6,543	33,6
3	5,827	26,7
4	5,189	21,1
5	4,620	16,8
6	4,115	13,3
7	3,665	10,5
8	3,268	8,4
9	2,906	6,6
10	2,588	5,3
11	2,304	4,2
12	2,052	3,3
13	1,829	2,6
14	1,628	2,1
15	1,450	1,65
16	1,290	1,31
17	1,151	1,04
18	1,024	0,82
19	0,912	0,65
20	0,813	0,519
21	0,724	0,412
22	0,643	0,325
23	0,574	0,259
24	0,511	0,205
25	0,455	0,163
26	0,404	0,128
27	0,361	0,102
28	0,320	0,080
29	0,287	0,065
30	0,254	0,051
31	0,226	0,040
32	0,203	0,032
33	0,180	0,025
34	0,160	0,020
35	0,142	0,016
36	0,127	0,013
37	0,114	0,010
38	0,102	0,008
39	0,089	0,006
40	0,079	0,005

UL styles for single core

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	AWG	Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	AWG
Style 1002	60	600	30 (0,76) PVC	26...16	Style 1116	80	600	30 (0,76) PVC	30...12
Style 1003	60	300	30 (0,76) PE, FRPE, PVC	26...16	Style 1118	90	300	15 (0,38) PVC	26...16
Style 1007	80	300	15 (0,38) PVC	32...16	Style 1119	90	600	30 (0,76) PVC	26...16
Style 1012	80	600	30 (0,76) PVC	28...9	Style 1120	105	600	30-80 (0,76-2,05) PVC	30...4/0
Style 1013	90	600	30 (0,76) PVC	28...9	Style 1122	80	300	9 (0,23) SR-PVC	30
Style 1015	105	600	30 (0,76) PVC	28...9	Style 1123	80	300	30 (0,76) PVC	22...20
Style 1017	80	600	45 (1,14) PVC	22...8	Style 1124	80	300	30 (0,76) PVC	22...20
Style 1019	80	600	60 (1,52) PVC	8...2	Style 1160	60	300	15 (0,38) PVC	26...16
Style 1020	80	600	80 (2,05) PVC	1...4/0	Style 1161	60	600	30 (0,76) PVC	26...9
Style 1024	90	600	45 (1,14) PVC	22...8	Style 1185	80	300	15-80 (0,38-2,05) PVC	30...4/0
Style 1026	90	600	60 (1,52) PVC	8...2	Style 1195	80	300	15 (0,38) SR-PVC	30...14
Style 1027	90	600	80 (2,05) PVC	1...4/0	Style 1208	80	300	13 (0,33) SR-PVC	30...16
Style 1028	105	600	45 (1,14) PVC	22...8	Style 1226	80	not specified	8-13 (0,21-0,33) FEP	32...14
Style 1030	80	1000 AC	30 (0,76) PVC	26...10	Style 1227	105	not specified	8-13 (0,21-0,33) FEP	32...14
Style 1032	90	1000 AC	30 (0,76) PVC	26...10	Style 1233	80	600	60 (1,52) PVC	18...8
Style 1039	80	300	15 (0,38) PVC	26...16	Style 1235	105	600	60 (1,52) PVC	18...8
Style 1054	80	600	60 (1,52) PVC	18...10	Style 1237	80	600	45 (1,14) PVC	26...19
Style 1061	80	300	9 (0,23) SR-PVC	30...16	Style 1239	105	600	45 (1,14) PVC	26...19
Style 1095	80	300	12 (0,31) PVC	30...16	Style 1283	105	600	60 (1,52) PVC	8...2
Style 1099	80	300	15 (0,38) PVC	28	Style 1284	105	600	80-110 (2,0-2,79) PVC	8...1000MCM
Style 1107	60	300	15 (0,38) PE, FRPE, PVC	30...16	Style 1330	200	600	20-45 (0,51-1,14) FEP	30...4/0
Style 1108	80	300	15 (0,38) PVC, FEP, PTFE	30...16	Style 1331	150	600	20-45 (0,51-1,14) FEP	30...4/0
Style 1109	90	300	15 (0,38) PVC, XPVC	26...16	Style 1332	200	300	13 (0,33) FEP	30...10
Style 1110	105	300	15 (0,38) PVC, XPVC	26...16					
Style 1113	60	600	30 (0,76) PE, FRPE, PVC	30...16					
Style 1115	80	300/600	15 (0,38) PVC	30...16					

Abbreviation:

- FR = flame retardant
- SR-PVC = semi rigid (hardened PVC)
- X = cross-linked by radiation

UL styles for single cores

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	AWG
Style 1333	150	300	13 (0,33) FEP	30...10
Style 1347	80	300	15 (0,38) PVC	26...16
Style 1348	60	300	15 (0,38) PE, FRPE	26...16
Style 1349	80	300	15 (0,38) PVC	26...16
Style 1350	80	600	28 (0,71) PE	26...16
Style 1354	60/80	30	>5 (0,13) PE, PP etc.	min. 40
Style 1365	60	300	23 (0,58) PE, FRPE	30...16
Style 1371	105	not specified	5,5-20 (0,14-0,51) FEP	36...6
Style 1375	60/80	30	7-150(0,18-3,8) PE,PPetc.	min. 32
Style 1379	60/80	150	Tube 15 (0,38) FRPE	20...29
Style 1380	60/80	300	Tube 20 (0,50) FRPE	20...29
Style 1381	60/80	600	Tube 25 (0,63) PE	20...29
Style 1382	80	300	Tube 40 (1,01) PE	20...29
Style 1435	80	300	15 (0,38) PE, FRPE	30...16
Style 1436	80	300	30 (0,76) PE, FRPE	27...16
Style 1437	80	300	60 (1,53) PE	22
Style 1438	80	300	42 (1,06) PE	22
Style 1439	80	300	30 (0,76) PE	26...16
Style 1477	80	300	AWM	min. 30
Style 1478	60	30	AWM	min. 30
Style 1479	60	600	45-60 (1,14-1,52) PVC	18...2
Style 1480	60	600	AWM PVC	max. 4/0
Style 1483	105	600	30 (0,76) PVC	28...9
Style 1495	80	300	15 (0,38) PVC	26...16
Style 1497	80	300	15 (0,38) PVC	26...16
Style 1498	80	600	30 (0,76) PVC	26...9

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	AWG
Style 1499	90	600	30 (0,76) PVC	26...9
Style 1500	105	600	30 (0,76) PVC	26...9
Style 1508	105	30	5,5 (0,14) ETFE	32...20
Style 1513	105	not specified	5 (0,13) ETFE	36...20
Style 1516	105	not specified	4 (0,10) ETFE	36...20
Style 1517	105	not specified	6 (0,16) ETFE	32...20
Style 1523	105	not specified	5 (0,13) ETFE	32...20
Style 1538	105	125	5,5-20 (0,14-0,51) FEP	36...6
Style 1545	80	300	30 (0,76) PE, FRPE	min. 30
Style 1546	60	300	18 (0,45) PE, FRPE	30...20
Style 1558	125	not specified	4 (0,10) ETFE	32...20
Style 1568	80	150	9 (0,23) PVC	30...16
Style 1569	80, 90, 105	300	15 (0,38) PVC	30...10
Style 1577	200	not specified	12 (0,30) FEP	32...16
Style 1581	80	300	15 (0,38) PVC	15...10
Style 1582	80	300	30 (0,76) PVC	30...9
Style 1586	105	not specified	5,5-20 (0,14-0,50) ETFE	36...6
Style 1589	60...80	30	2-100 (0,05-2,53) PP,PE	min. 36
Style 1591	150	300	16 (0,40) FEP	26...16
Style 1592	200	300	16 (0,40) FEP	26...16
Style 1598	60...80	30	5-100 (0,13-2,53) PE	min. 36
Style 1605	60	30	4-30 (0,10-0,76) PVC	min. 46
Style 1609	105	125	5,5-20 (0,14-0,50) ETFE	36...6
Style 1610	105	not specified	10 (0,26) ETFE	32...10
Style 1618	80	300	15 (0,38) PVC	—
Style 1647	80, 90, 105	600	30 (0,76) PVC	30...0

UL styles for single cores

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	AWG
Style 1683	80	30	35 min. (88) PVC	26...4/0
Style 1692	80, 90, 105	30	4-30 (0,10-0,76) PVC	min.42
Style 1707	200	30	5 (0,127) PFA	32...20
Style 1708	200	not specified	5 (0,127) PFA	32...20
Style 1709	200	300	13 (0,33) PFA	32...10
Style 1710	200	600	20-45 (0,50-1,14) PFA	32...4/0
Style 1716	150	150	10-20 (0,25-0,50) FEP	32...6
Style 1723	200	not specified	10 (0,25) FEP	32...16
Style 1726	250	300	13-45 (0,33-1,14) PFA	32...4/0
Style 1727	250	600	20-45 (0,50-1,14) PFA	32...4/0
Style 1729	80	300	9 (0,23) PVC	32...16
Style 1766	80	30	3-30 (0,08-0,76) FEP	min. 42
Style 1792	80	30	2-100(0,05-2,53)PE,PVC	min. 40
Style 1831	105	150	5 (0,13) ETFE	24...18
Style 1837	60	30	5-125 (0,13-3,17) FEP	min. 40
Style 1847	105	30	>3 (0,08) FEP	min. 40
Style 1848	150-200	300	15 (0,38) FEP	min. 24
Style 1849	150-200	600	20 (0,5) FEP	min. 24
Style 1857	150	150	10 (0,25) PFA	32...16
Style 1858	150	300	13 (0,33) PFA	32...10
Style 1859	150	600	20-45 (0,50-1,14) PFA	32...4/0
Style 1860	200	150	10 (0,25) PFA	32...16
Style 1882	250	150	10 (0,25) PFA	32...16
Style 1886	150	300	10 (0,25) FEP	30...10
Style 1887	150	600	14-30 (0,35-0,76) FEP	30...4/0
Style 1900	200	300	10 (0,25) FEP	30...10

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	AWG
Style 1901	200	600	14-30 (0,35-0,76) FEP	30...4/0
Style 1905	105	30	4 (0,10) ETFE	32...20
Style 1908	80	300	15-50 (0,38-1,27) PVC	26...4/0
Style 1909	80	600	30-50 (0,76-1,27) PVC	26...4/0
Style 1926	60-80	300	7 min. (0,17) PE, FRPE	30...16
Style 1929	200	300	13 (0,33) PFA	32...10
Style 1930	200	600	20-45 (0,50-1,14) PFA	30...4/0
Style 1933	250	not specified	6 (0,15) PFA	36...20
Style 1943	105	30	4 (0,1) FEP	30...16
Style 1948	60	60	4-30 (0,10-0,76) PVC	min. 46
Style 1967	60/80	30	15-48 (0,39-1,22) PVC	20...4/0
Style 1968	60/80	not specified	15-48 (0,39-1,22) PVC	20...4/0
Style 1970	60/80	300	20 (0,5) cell-FEP	32...20
Style 1982	60	30	7 (0,17) PETP	min. 36
Style 1986	80	30	>2 (0,05) FEP	min. 50
Style 1988	105	150	9 (0,23) ETFE	32...10
Style 1989	105	300	12 (0,31) ETFE	32...10
Style 1990	105	600	20-45 (0,50-1,14) ETFE	30...4/0
Style 1999	150	300	>18 (0,45) cell-FEP	min. 36
Style 10009	150	300	>18 (0,45) cell-FEP	min. 36
Style 10012	80/90/105	600 or 1000	20-110 (0,5-2,79) PVC	30...3/0
Style 10030	250	300	10 (0,25) PFA	30...10
Style 10031	250	150	6 (0,15) PFA	30...10
Style 10042	80	300	8-22 (0,2-0,56) TPE	32...2
Style 1026380	600 or 1000	12-33 (0,3-0,84) TPE		32...1/0
Style 10269	80/90/105	1000	30-125 (0,76-3,18) PVC	30...2-10 ³ CM

UL styles for cables

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	Wall thickness sheath mil (mm)	Braid alternative	AWG
Style 2089	60	300	30 (0,76) PVC	15 (0,38) PVC	braiding, spiral, metal foil	20...18
Style 2090	60	300	30 (0,76) PVC	15 (0,38) PVC	braiding, spiral, metal foil	20...18
Style 2091	60	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral, metal foil	20...18
Style 2092	60	300	15 (0,38) PE, FRPE	15 (0,38) PVC	on request	30...16
Style 2093	60	300	15 (0,38) PE, FRPE	15 (0,38) PVC	on request	30...16
Style 2094	60	300	15 (0,38) PE, FRPE	15-60 (0,38-1,52) PVC	on request	30...16
Style 2095	80	300	AWM	15-60 (0,38-1,52) PVC	on request	min. 32
Style 2096	80	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral, metal foil	30...16
Style 2097	80	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral, metal foil	30...16
Style 2098	90	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2099	90	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2100	90	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2101	105	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral	30...16
Style 2102	105	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral	30...16
Style 2103	105	300	15 (0,38) PVC	15...60 (0,38...1,52) PVC	on request	30...16
Style 2106	60	600	30 (0,76) PE, FRPE	30 (0,76) PVC	braiding, spiral, metal foil	26...12
Style 2107	60	600	30 (0,76) PE, FRPE	30 (0,76) PVC	braiding, spiral	26...12
Style 2108	60	600	30 (0,76) PE, FRPE	30 (0,76) PVC	braiding, spiral	26...16
Style 2112	80	300	15 (0,38) PVC	30 (0,76) PVC	braiding, spiral	25...16
Style 2113	80	300	15 (0,38) PVC	30 (0,76) PVC	braiding, spiral	26...16
Style 2114	80	300	15 (0,38) PVC	30 (0,76) PVC	braiding, spiral	26...16
Style 2115	80	600	30 (0,76) PVC	30 (0,76) PVC	braiding, spiral, metal foil	26...16
Style 2116	80	600	30 (0,76) PVC	30 (0,76) PVC	braiding, spiral	26...16
Style 2117	80	600	30 (0,76) PVC	30 (0,76) PVC	on request	26...16
Style 2121	90	300/600	15 (0,38) PVC	30 (0,76) PVC	braiding, spiral	26...16
Style 2122	80	300/600	15 (0,38) PVC	30 (0,76) PVC	braiding, spiral	26...16

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UL styles for cables

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	Wall thickness sheath mil (mm)	Sheath alternative	AWG
Style 2123	90	300/600	15 (0,38) PVC	30 (0,76) PVC	braiding, spiral	26...16
Style 2124	90	600	30 (0,76) PVC	30 (0,76) PVC	braiding, spiral, metal foil	28...9
Style 2125	90	600	30 (0,76) PVC	30 (0,76) PVC	braiding, spiral, metal foil	28...9
Style 2126	90	600	30 (0,76) PVC	30 (0,76) PVC	braiding, spiral, metal foil	28...9
Style 2127	105	600	30 (0,76) PVC	30 (0,76) PVC	on request	28...9
Style 2128	105	600	30 (0,76) PVC	30 (0,76) PVC	on request	28...9
Style 2129	105	600	30 (0,76) PVC	30 (0,76) PVC	on request	28...9
Style 2262	60	600	30 (0,76) PE	15 (0,38) PVC	braiding, spiral	26...16
Style 2263	60	600	30 (0,76) PE	15 (0,38) PVC	braiding, spiral	26...16
Style 2264	60	600	30 (0,76) PE	15 (0,38) PVC	braiding, spiral	26...16
Style 2265	80	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral, metal foil	26...16
Style 2266	80	300	15 (0,38) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2267	80	300	15 (0,38) IPVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2268	80	300	30 (0,76) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2269	80	300	30 (0,76) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2270	80	300	30 (0,76) PVC	15 (0,38) PVC	braiding, spiral	26...16
Style 2271	60	300	as for SVT	as for SVT	—————	26...16
Style 2272	60	300	as for SVT	as for SVT	—————	26...16
Style 2273	60	300	as for SVT	as for SVT	—————	26...16
Style 2274	60	300	as for SVT	as for SVT	—————	26...16
Style 2275	60	300	as for SVT	as for SVT	—————	26...16
Style 2276	60	300	as for SVT	as for SVT	—————	26...16
Style 2277	60	300	as for SVT	as for SVT	—————	26...16
Style 2278	60	300	as for SVT	as for SVT	—————	26...16
Style 2279	60	300	as for SVT	as for SVT	—————	26...16
Style 2280	60	300	as for SVT	as for SVT	—————	26...16

UL styles for cables

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	Wall thickness sheath mil (mm)	Braid alternative	AWG
Style 2281	60	300	as for SVT	as for SVT	————	26...16
Style 2282	60	300	as for SVT	as for SVT	————	26...16
Style 2283	60	300	as for SVT	as for SVT	————	26...16
Style 2284	60	300	as for SVT	as for SVT	————	26...16
Style 2285	60	300	as for SVT	as for SVT	————	26...16
Style 2286	60	300	as for SVT	as for SVT	————	26...16
Style 2287	60	300	as for SVT	as for SVT	————	26...16
Style 2288	60	300	as for SVT	as for SVT	————	26...16
Style 2319	90	600	30 (0,76) PVC	30 (0,76) PVC	————	26...16
Style 2321	80	600	30 (0,76) PVC	30 (0,76) PVC	conductive plastic with copper drain wire	22
Style 2325	90	600	30 (0,76) PVC	30 (0,76) PVC	braiding, metal foil	26...16
Style 2343	80	not specified	AWM	60 (1,52) PVC	on request	min. 30
Style 2344	80	not specified	AWM	80 (2,05) PVC	on request	min. 30
Style 2345	80	not specified	AWM	110 (2,80) PVC	on request	min. 30
Style 2346	80	not specified	AWM	140 (3,55) PVC	on request	min. 30
Style 2347	60	600	30 (0,76) PE	15 (0,38) PVC	on request	26...16
Style 2350	80	600	30 (0,76) PE	15 (0,38) PVC	braiding, spiral	26...16
Style 2351	80	600	30 (0,76) PE	30 (0,76) PVC	braiding, spiral	26...16
Style 2352	80	600	30 (0,76) PE	15 (0,38) PVC	braiding, spiral	26...16
Style 2353	80	600	30 (0,76) PE	15 (0,38) PVC	braiding, metal foil	26...16
Style 2354	80	600	30 (0,76) PE, FRPE	30 (0,76) PVC	braiding, metal foil	26...12
Style 2355	80	600	30 (0,76) PE	30 (0,76) PVC	braiding, spiral	26...16
Style 2384	60	30	AWM	35 (0,89) PVC	on request	min. 40
Style 2385	60	30	AWM	60 (1,52) PVC	on request	min. 40
Style 2386	60	30	AWM	80 (2,05) PVC	on request	min. 40
Style 2387	60	30	AWM	110 (2,80) PVC	on request	min. 40

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UL styles for cables

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	Wall thickness sheath mil (mm)	Braid alternative	AWG
Style 2388	60	30	AWM	140 (3,55) PVC	on request	min. 40
Style 2397	80	300	15 (0,38) PVC	—	braiding, spiral	26...16
Style 2446	80-105	600	30 (0,76) PVC	30 (0,76) PVC 105°C	—	18
Style 2448	60	30	AWM	30-140 (0,76-3,55) PVC	on request	min. 40
Style 2461	80	300	PVC 80° 300V	30-80 (0,76-1,92) PVC	on request	26...16
Style 2462	60	300	SVT/SJT	SVT/SJT	on request	24...10
Style 2463	80	600	AWM	30-80 (0,76-1,92) PVC	on request	min. 40
Style 2464	80	300	AWM	30-140 (0,76-3,55) PVC	on request	AWM
Style 2468	80	300	15 (0,38) PVC	Optional	on request	32...16
Style 2477	60	not specified	AWM	45 (1,14) PVC	on request	36...16
Style 2490	60	not specified	AWM	60-140 (1,44-3,55) PVC	on request	min. 36
Style 2493	60	not specified	AWM	45-80 (1,14-1,92) PVC	on request	30...16
Style 2498	80	300	30 (0,50) PE	30 (0,76) PVC	on request	28...16
Style 2501	105	600	AWM	60-140 (1,44-3,55) PVC	on request	min. 40
Style 2502	80	30	AWM	30-140 (0,76-3,55) PVC	on request	min. 40
Style 2516	105	600	AWM	45-80 (1,14-1,92) PVC	on request	min. 40
Style 2517	105	300	AWM	30-80 (0,76-1,92) PVC	on request	min. 32
Style 2532	80	30	AWM	30 (0,76) PVC	on request	min. 40
Style 2535	80	30	AWM	30 (0,76) PVC	on request	min. 40
Style 2549	90	300	AWM	30-80 (0,76-1,92) PVC	on request	40...16
Style 2550	80	600	AWM	60-140 (1,44-3,55) PVC	on request	min. 40
Style 2551	105	30	AWM	30-140 (0,76-3,55) PVC	—	min. 40
Style 2560	60	30	AWM	30-140 (0,76-3,55) PVC	on request	min. 40
Style 2570	80	600	AWM	30-80 (0,76-1,92) PVC	on request	min. 40
Style 2571	80	not specified	AWM	30-80 (0,76-1,92) PVC	on request	min. 40
Style 2574	105	30	AWM	30-140 (0,76-3,55) PVC	on request	min. 40

UL styles for cables

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	Wall thickness sheath mil (mm)	Braid alternative	AWG
Style 2576	80	150	AWM	AWM	on request	36...9
Style 2582	60	150	12 (0,30) PE, FRPE	AWM	on request	30...16
Style 2584	80	125	AWM	AWM	on request	40...9
Style 2586	105	600	AWM	AWM	—	30...9
Style 2587	90	600	AWM	AWM	on request	min. 40
Style 2589	105	30	AWM	AWM	on request	AWM
Style 2598	60	300	AWM	AWM	on request	AWM
Style 2610	80	300	15 (0,38) PVC	30 (0,76) PVC	—	as Style 1007
Style 2614	105	30	AWM	AWM	on request	min. 40
Style 2626	80	30	AWM	AWM	on request	not specified
Style 2630	90	125	AWM	AWM	on request	30...9
Style 2631	90	not specified	AWM	AWM	on request	min. 40
Style 2637	90	30	AWM	AWM	on request	min. 40
Style 2653	90	600	AWM	AWM	on request	36...6
Style 2654	90	300	AWM	AWM	on request	36...6
Style 2655	80	300	AWM	AWM	on request	36...6
Style 2656	80	600	AWM	AWM	on request	36...6
Style 2660	60	not specified	AWM	AWM	on request	AWM
Style 2661	105	300	AWM	AWM	on request	36...6
Style 2662	105	600	AWM	AWM	on request	33...10
Style 2668	60	30	AWM	AWM	on request	min. 40
Style 2778	60	150	AWM	AWM	braiding, metal foil	30...16
Style 2789	60	30	AWM	AWM	on request	AWM
Style 2833	60	30	AWM	15 (0,38) PVC	on request	—
Style 2854	80	30	AWM	5 (0,13) PVC	on request	min. 40
Style 2919	80	30	AWM	AWM	on request	min. 40

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UL styles for cables

Style	Temperature °C	Voltage V	Wall thickness insulation mil (mm)	Wall thickness sheath mil (mm)	Braid alternative	AWG
Style 2920	60	30	AWM	AWM	on request	min. 40
Style 2921	60	30	AWM	AWM	on request	min. 40
Style 2930	105	not specified	AWM	AWM	on request	min. 40
Style 2931	105	125	AWM	AWM	on request	min. 40
Style 2934	80	150	AWM	AWM	on request	AWM
Style 2935	80	300	AWM	AWM	on request	AWM
Style 2936	80	150	AWM	AWM	on request	AWM
Style 2937	80	300	AWM	AWM	on request	AWM
Style 2938	90	30	AWM	AWM	on request	AWM
Style 2941	105	30	> 4 (0,10) PVC	9 (0,23) PVC	on request	40...16
Style 2961	80	150	AWM	AWM	on request	AWM
Style 3512	200	600	AWM	30-95 (0,76-2,41) silicone	on request	min. 20
Style 20063	80	300	20 (0,50) PE	30 (0,76) PVC	on request	28...16
Style 20083	80	300	AWM	AWM	on request	diff.
Style 20099	60	150	7 (0,18) Hytrel	30 (0,76) PVC	on request	33...18
Style 20233	80	300	AWM	30-140 (0,76-3,55) PUR	on request	min. 36
Style 20234	80	600/1000	AWM	45-140 (1,14-3,55) PUR	on request	min. 36
Style 20235	80	not specified	AWM	45-140 (1,14-3,55) PUR	on request	min. 36
Style 20254	60	30	AWM	AWM	on request	min. 40
Style 20405	60	150	7 (0,18) Hytrel	30 (0,76) PU	on request	33...18
Style 20433	60	not specified	AWM	AWM	on request	36...10
Style 20601	80	300	AWM	AWM	on request	AWM
Style 20886	80, 90, 100	1000	AWM	30-140	on request	min. 40

Flame tests acc. to UL/CSA

Contrary to the valid and practised standards (Germany VDE) and international standards (IEC) in the European hemisphere for the behaviour of cables in fire, the tests carried out in the USA and Canada deviate from the ones in Europe.

Here is a brief summary of the most important regulations for cables.

Test identification	Standard	Test requirements
H	UL style 1581, section 1090	horizontal flame test for indoor cables
V	UL style 1581, section 1061	vertical flame test for outdoor cables
VW 1	UL style 1581, section 1080	vertical flame test for cables acc. to NEC (N ational E lectrical C ode)
FT 1	CSA No. 3 / UL style 1581, section 1060	vertical flame test for indoor and outdoor cables
FT 2	CSA No. 3 / UL style 1581, section 1100	horizontal flame test for indoor and outdoor cables
FT 4	CSA No. 3 / UL style 1581, section 1164	vertical flame test for cables on cable trays

Anglo-American measure units conversion to SI units

LENGTHS

1 mil	= 0,0254 mm
1 inch (in;''')	= 25,4 mm
1 foot (ft;')	= 0,305 m
1 yard (yd)	= 0,914 m
1 statute mile	= 1,609 m
1 nautical mile	= 1,852 m
1 chain (ch)	= 20,1 m

AREA

1 mcm	= 0,5067 mm ²
1 square inch (sq.in.)	= 645,16 mm ²
1 square foot (sq.ft.)	= 0,0929 m ²
1 square yard (sq.yd.)	= 0,836 m ²
1 acre	= 4047 m ²
1 square mile	= 2,59 km ²

VOLUME

1 cubic inch	= 16,39 cm ³
1 cubic foot	= 0,0283 m ³
1 cubic yard	= 0,765 m ³
1 pint	= 0,473 l
1 quart	= 0,946 l
1 Brit. gallon	= 4,55 l
1 US gallon	= 3,79 l
1 US barell	= 158,8 l

MASS

1 grain	= 64,8 mg
1 dram	= 1,77 g
1 ounce (oz) =16 drams	= 28,35 g
1 pound (lb) =16 oz	= 453,59 g
1 stone =14 lbs	= 6,35 kg
1 US ton (short ton)	= 907 kg
1 Brit. ton (long ton)	= 1016 kg

FORCE

1 pound-force (lbf)	= 4,454 N
1 Brit. ton-force	= 9967 N
1 poundal (pdl)	= 0,1382 N

PRESSURE

1 lbf/in ² (psi)	= 68,97 mbar
1 lbf/ft ²	= 0,479 mbar
1 lbf/yard ²	= 0,0532 mbar

ELECTRICAL UNITS

1 ohm/1000 yd	= 1,0936 Ω/km
1 ohm/1000 ft	= 3,28 Ω/km
1 megohmmile	= 1,61 MΩ/km
1 mF/mile	= 0,62 μF/km
1 decibel/mile	= 71,5 mN/km

DENSITY

1 lb/ft ³	= 16,02 kg/m ³
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TEMPERATURE

1 Fahrenheit (F)	= (1,8 × T + 32) °C
	T = temperature in °C

Rated-, operating- and test voltage

Rated voltage:

The rated voltage of a cable is the voltage for which the cable is designed and which determines the electrical characteristics of the respective cable.

The rated voltage is expressed through the ratio of two alternating current values for U_0/U in Volts:

U_0 = Effective value between an outside conductor and the earthing (either metal sheath of the cable or a surrounding substance).

U = Effective value between two outer conductors of a multicore cable or of a system with single core cables.

In an alternating current system, the rated voltage of the cable must be at least the same as the rated voltage of the system in which it is applied.

This requirement is valid both for the U_0 value as well as for the U value.

The rated voltage of a direct current system may not exceed the 1.5 value of the rated voltage (U) of the cable.

Operating voltage:

The operating voltage of a system may continually exceed its rated voltage by 10 %. A cable may be operated with a voltage which is 10% over the rated voltage provided it correlates to the rated voltage of the system.

Test voltage:

The test alternating voltage (50 Hz) is dependant on the rated voltage of the cable and consequently on the predetermined value of the core insulation wall thickness.

The predetermined voltage is applied over a specified time to core / core and likewise core / sheath.

Electrotechnical formulas

Calculation of cross-section of strands and wires

$$A = \frac{d^2 \times \pi \times n}{4} \quad A = \text{strand cross-section in mm}$$

$$D = \sqrt{1,34 \times n \times d} \quad \begin{array}{l} D = \text{strand diameter in mm} \\ n = \text{number of single wires} \\ d = \text{single wire-}\varnothing \text{ in mm} \end{array}$$

Conductor resistance

$$R = \frac{\rho \times L}{A} \quad \begin{array}{l} R = \text{electrical resistance in } \Omega \\ G = \text{electrical conductive value in S} \\ A = \text{conductor cross-section in mm} \\ L = \text{length of conductor in m} \end{array}$$

$$R = \frac{L}{\kappa \times A}$$

$$G = \frac{1}{R} \quad \begin{array}{l} \rho = \text{specific resistance in } \Omega \times \text{mm}^2/\text{m} \\ \kappa = \text{conductivity in m}/\Omega \times \text{mm}^2 \end{array}$$

$$\rho = \frac{1}{\kappa}$$

Example

$$L = 1000 \text{ m}; K = 58 \text{ m}/\Omega \times \text{mm}^2$$

$$A = 0,75 \text{ mm}^2$$

$$R = \frac{L}{\kappa \times A}$$

$$R = \frac{1000}{58 \times 0,75} = 23 \Omega$$

Resistance change with increased temperature

$$\begin{array}{ll} R_W = R_K (1 + \alpha \times \Delta\vartheta) & R_K = \text{resistance at } +20^\circ\text{C in } \Omega \\ R_W = R_K + \Delta R & R_W = \text{resistance in } \Omega \\ \Delta R = \alpha \times R_K \times \Delta\vartheta & \Delta R = \text{resistance change in } \Omega \\ \Delta\vartheta = R_W \times R_K/R & \Delta\vartheta = \text{temperature change to } 20^\circ\text{C in } ^\circ\text{C} \\ & \alpha = \text{correction value in } 1/^\circ\text{C} \end{array}$$

Example

$$\Delta\vartheta = 50^\circ\text{C}$$

$$R_K = 100 \Omega$$

$$\alpha = 0,0039/^\circ\text{C}$$

$$R_W = R_K (1 + \alpha \times \vartheta)$$

$$R_W = 100 \Omega (1 + 0,0039 \times 50)$$

Ohm's law

$$R = \frac{U}{I}$$

R = electrical resistance in Ω
U = electrical voltage in V
I = electrical current in A

Example

$$U = 300 \text{ V}; I = 10 \text{ A}$$

$$R = \frac{300 \text{ V}}{10 \text{ A}} = 30 \Omega$$

Power of ten

Power	Description	Abbreviation	Value
10^{12}	tera	T	1000 000 000 000
10^9	giga	G	1000 000 000
10^6	mega	M	1000 000
10^3	kilo	K	1000
10^2	hecto	h	100
10^1	deca	da	10
10^0			1
10^{-1}	deci	d	0,1
10^{-2}	centi	c	0,01
10^{-3}	milli	μ	0,001
10^{-6}	micro	μ	0,000 001
10^{-9}	nano	n	0,000 000 001
10^{-12}	pico	p	0,000 000 000 001
10^{-15}	femto	f	0,000 000 000 000 001

Material at 20°C	ρ $\Omega \times \text{mm}^2/\text{m}$	κ $\text{m}/\Omega \times \text{mm}^2$	α $1/^\circ\text{C}$
copper	0,0173	58,0	0,0040
silver	0,0161	62,0	0,0038
aluminum	0,0287	35,0	0,0038
iron	0,13	7,7	0,0046
constantan	0,50	2,0	0,000005

Smallest permitted bending radius acc. to VDE regulations for cables up to 0,6/1kV rated voltage

Bending radius of cables for fixed installation

acc. to VDE 0298, part 3

Type of application	cable- \varnothing d resp. thickness of flat cables d		
	> 10mm	> 25mm	> 25mm
fixed installation	$4 \times d$	$4 \times d$	$4 \times d$
to form out	$1 \times d$	$2 \times d$	$3 \times d$

Bending radius of cables for flexible application

acc. to VDE 0298, part 3

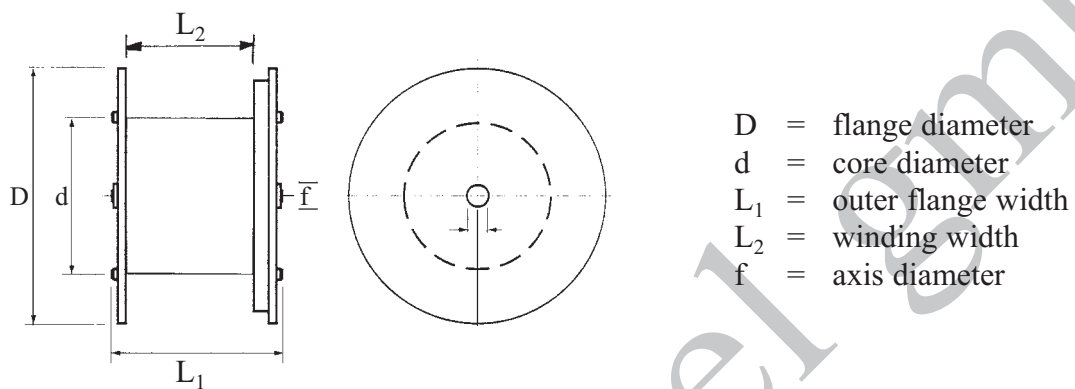
Type of application	cable- \varnothing d resp. thickness of flat cables d			
	> 8mm	> 12mm	> 20mm	> 20mm
fixed installation	$3 \times d$	$3 \times d$	$4 \times d$	$4 \times d$
flexible application	$3 \times d$	$4 \times d$	$5 \times d$	$5 \times d$
installation in pipes etc.	$3 \times d$	$4 \times d$	$5 \times d$	$5 \times d$
forced guidance	$5 \times d$	$5 \times d$	$5 \times d$	$6 \times d$
trolley vehicle operation	$3 \times d$	$4 \times d$	$5 \times d$	$5 \times d$
drag chains application	$4 \times d$	$4 \times d$	$5 \times d$	$5 \times d$
guide pulley	$7,5 \times d$	$7,5 \times d$	$7,5 \times d$	$7,5 \times d$

Bending radius of installation cables acc. to DIN 815

acc. to VDE 0891, part 5

Application	Cable- \varnothing d
shipping	$7,5 \times \text{cable } \varnothing$
multiple bending with tensile load	$7,5 \times \text{cable } \varnothing$
bending once without tensile load	$2,5 \times \text{cable } \varnothing$ (exception: J-Y(St)Y...Lg, $5 \times \text{cable } \varnothing$)

Drum and spool sizes



Non-returnable plywood spools

Spool size	D mm	d mm	L ₁ mm	L ₂ mm	f mm	Load capacity max. kg	Weight approx. kg
01	400	150	320	300	50	150	4
02	500	150	420	400	50	200	5
03	600	150 - 300	320 - 420	300 - 400	80	210	6 - 8

KTG cable drums

Drum size / Ref. number	D mm	d mm	L1 mm	L2 mm	f mm	Load capacity max. kg	Weight approx. kg
KTG wooden drums							
05/051	500	150	470	410	56	100	8
06/061	630	315	415	315	56	250	17
07/071	710	355	520	400	80	250	25
08/081	800	400	520	400	80	400	31
09/091	900	450	690	560	80	750	47
10/101	1000	500	710	560	80	900	71
12/121	1250	630	890	670	80	1700	144
14/141	1400	710	890	670	80	2000	175
16/161	1600	800	1100	850	80	3000	280
18/181	1800	1000	1100	840	100	4000	380
20/201	2000	1250	1350	1045	100	5000	550
22/221	2240	1400	1450	1140	125	6000	710
25/251	2500	1600	1450	1130	125	7500	900
28/281	2800	1800	1635	1280	140	10000	1175
KTG plastic drums							
05/050/7	500	150	456	404	56	100	4
07/070	710	355	510	400	80	250	15
08/080	800	400	510	400	80	350	16
09/090	900	450	680	560	80	400	23
10/100	1000	500	704	560	80	500	32

KTG = Kabeltrommel GmbH & Co, Cologne

Capacity of KTG cable drums in metres

Drum size. Ref. no.	05 051	06 061	07 071	08 081	09 091	10 101	12 121	14 141	16 161	18 181	20 201	22 221	25 251	28 281
6	1140	1110	2025	2755										
7	820	845	1480	2340										
8	635	640	1065	1465	2730									
9	480	470	890	1150	2200	2865								
10	410	385	675	980	1770	2350								
11	340	315	565	760	1405	1910								
12	280	255	470	645	1205	1540								
13	235	235	385	540	1030	1340	2725							
14	185	190	365	455	880	1160	2255	2965						
15	175	180	295	430	750	1000	1990	2480						
16	145	140	240	360	630	860	1755	2205						
17	135	135	230	295	605	735	1545	1960						
18	105	100	220	280	505	705	1355	1735						
19	100	95	170	230	485	600	1185	1535	2720					
20	100	95	165	220	400	575	1140	1350	2435	2830				
21	75	90	160	210	385	485	990	1305	2170	2525				
22			120	165	315	470	855	1145	1930	2250				
23			115	160	305	390	825	1000	1870	2170	2955			
24				160	295	375	710	965	1655	1925	2610			
25				150	285	365	690	840	1610	1865	2520			
26				115	230	300	670	815	1420	1650	2220			
27					220	290	565	700	1245	1450	2150	2860		
28					215	280	550	680	1210	1410	1880	2775		
29					210	225	460	665	1180	1370	1825	2450	2975	
30					160	220	450	565	1030	1195	1585	2385	2895	
32						210	430	535	865	1010	1500	2035	2490	
34							345	440	830	960	1255	1725	2135	
36							330	420	690	805	1040	1645	2035	2820
38							260	340	665	770	995	1385	1735	2430
40							250	325	550	640	810	1330	1465	2330
42							190	260	530	615	780	1110	1405	1995
44							180	250	430	500	750	1065	1175	1690
46							175	240	415	485	600	875	1130	1630
48							130	185	330	385	580	840	930	1365
50							125	180	320	375	560	780	900	1320
55								125	235	275	415	625	690	1040
60									220	255	295	465	640	805
65									155	180	275	335	480	750
70										170	185	315	450	565
75										160	175	295	325	530
80										105	165	280	305	500
85											155	190	290	365
90											145	180	200	350

The above mentioned values are non-binding theoretical values

- = drum core- $\varnothing \geq 30 \times$ cable - \varnothing
- = drum core- $\varnothing \geq 20 \times$ cable - \varnothing
- = drum core- $\varnothing \geq 10 \times$ cable - \varnothing

Chemical and physical characteristics of (guide value)

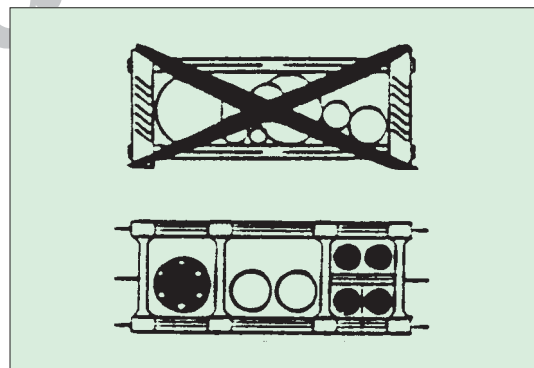
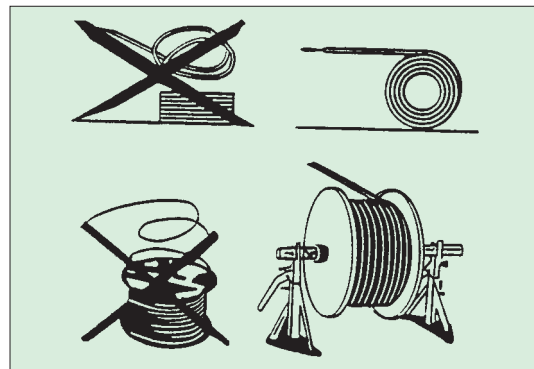
Abbreviation	VDE- abbreviation	Chemical designation	Density [g/cm ³]	Continuous service operation temperature [°C]	Short-term operating temperature (240h) [°C]	Short-term operating temperature (20h) [°C]	Flame resistance behaviour
PVC	Y	Polyvinyl chloride	1,25...1,50	-30...+70	80	100	conditional
PVC k	Yk	Polyvinyl chloride cold resistant	1,20...1,40	-40...+70	80	100	conditional
PVC w	Yw	Polyvinyl chloride heat resistant	1,30...1,50	-20...+105	110	120	conditional
PVC fr	Y	Polyvinyl chloride flame retardant	1,30...1,60	-30...+70	80	100	yes
LDPE	2Y	Polyethylene low density	0,91...0,93	-50...+70	80	100	no
HDPE	2Y	Polyethylene high density	0,94...0,97	-50...+90	110	120	no
PES	02Y	expanded Polyethylene	± 0,65	-40...+70	-	-	no
PA	4Y	Polyamide	1,02...1,15	-60...+105	120	150	no
PP	9Y	Polypropylene	0,95...0,98	-10...+100	110	130	no
PUR	11Y	Polyurethane	1,15...1,20	-50...+80	120	140	no
TPE-E	12Y	Polyester	1,15...1,40	-40...+120	120	150	no
PET	12Y	Polyester (foil)	1,15...1,40	-40...+120	180	200	no
-	H	halogen-free Polymer blend	1,40...1,58	-30...+70	80	100	yes
XLPE	2X	cross-linked Polyethylene	0,90...0,93	-35...+90	130	160	no
SBR	G	Styrol-Butadien-caoutchouc	1,50...1,70	-65...+60	80	120	no
SiR	2G	Silicone-caoutchouc	1,20...1,30	-60...+180	220	260	conditional to yes
EPR	3G	Ethylene-Propylene-caoutchouc	1,30...1,60	-30...+90	130	160	no
EVA	4G	Ethylene-Vinylacetate-Copolymer	1,30...1,50	-50...+150	170	200	no
CR (PCP)	5G	Polychloroprène-caoutchouc	1,40...1,70	-40...+100	120	140	yes
CSM (CSP)	6G	chlorsulfonated Polyethylene	1,30...1,60	-30...+80	120	140	yes
CM	9G	chlorofied Polyethylene	1,40...1,70	-30...+90	130	160	yes
PTFE	5Y	Polytetrafluoroethylene	2,00...2,30	-190...+260	300	320	yes
FEP	6Y	Perfluoraethylenpropylene	2,00...2,30	-100...+200	230	240	yes
ETFE	7Y	Ethylenetetrafluoroethylene	1,60...1,80	-100...+150	200	250	yes
ECTFE	-	Ethylenchlortrifluoroethylene	1,60...1,80	-80...+150	200	230	yes
PVDF	10Y	Polyvinylidenfluoride	1,70...1,90	-40...+135	160	160	yes
PFA	51Y	Perfluoralkoxy	2,00...2,30	-190...+260	280	280	yes

insulation and sheath materials

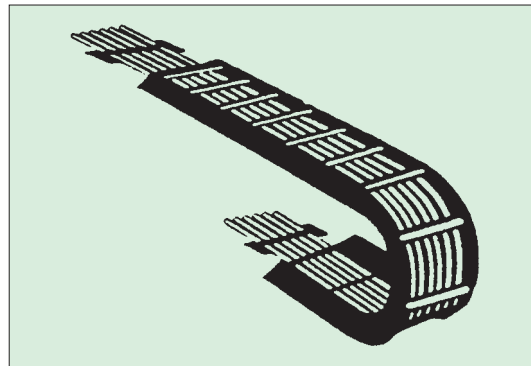
Corrosive gases in case of fire	Oxygen index LOI [%O ₂]	Weather resistance	Oil and fuel resistance	γ-radiation resistance [mrad]	Specific insulation resistance (20°C) [Ω · cm]	Relative permittivity (50Hz, 20°C) ε _r	Shore-hardness	Tensile strength [N/mm ²]	Elongation at break [%]
yes	23...28	moderate (in „bk“ good)	moderate	10	10 ¹¹ ...10 ¹⁴	3,6...6,0	70...95 A	10...25	150...350
yes	23...28	moderate (in „bk“ good)	moderate	10	10 ¹³	4,5...6,5	80...95 A	10...25	150...350
yes	23...28	moderate (in „bk“ good)	moderate	10	10 ¹³	4,5...6,5	70...85 A	10...25	150...350
yes	30...40	moderate (in „bk“ good)	moderate	10	10 ¹³	-	80...90 A	10...25	150...350
no	22	moderate (in „bk“ good)	poor	100	10 ¹⁷	2,3	40...50 D	8...23	300...600
no	22	moderate (in „bk“ good)	moderate	100	10 ¹⁷	2,3	55...66 D	18...35	400...1000
no	18...30	moderate	-	100	10 ¹⁷	1,5	-	8...12	350...450
no	22	good	moderate	10	10 ¹⁴	4	70...80	56...85	70...300
no	22	moderate (in „bk“ good)	moderate	10	10 ¹⁷	2,3	55...60 D	21...37	300...600
no	20...25	good	good	500	10 ¹²	4...7	80...100 A	30...40	400...700
no	20...25	moderate to good	good	50	10 ¹³	4...6	90...95 A	20...40	150...350
no	20...25	-	good	100	10 ¹³	-	-	150...200	50...150
no	33...40	moderate (in „bk“ good)	moderate	100	10 ¹² ...10 ¹⁴	3,4...5,0	65...95 A	8...13	150...250
no	22	good	moderate	100	10 ¹⁵	4...6	40...45 D	10...25	300...600
no	22	moderate	poor	100	10 ¹²	3...5	60...70 A	5...10	250...500
no	25...35	good	moderate	50	10 ¹³	3...4	40...80 A	5...20	200...400
no	22	excellent	moderate	200	10 ¹³	3,0...3,8	65...85 A	5...20	200...400
no	22	good	moderate	100	10 ¹²	5,0...6,5	70...80 A	5...20	200...400
yes	30...35	excellent	good	50	10 ¹²	6,0...8,5	55...70 A	15...25	300...600
yes	30...35	excellent	good	50	10 ¹²	6...9	60...70 A	15...25	300...600
yes	28...35	excellent	good	50	10 ¹²	6...8	60...80	10...20	300...600
yes	>95	excellent	excellent	0,1	10 ¹⁷	2,1	55...65 D	80	50
yes	>95	excellent	excellent	0,1	10 ¹⁶	2,1	55...60 D	15...25	250
yes	30...35	excellent	excellent	100	10 ¹⁶	2,3...2,6	70...75 D	40...50	150
yes	60...65	excellent	excellent	100	10 ¹³	2,5	75...80 D	40...50	150
yes	40...45	excellent	excellent	10	10 ¹⁴	7,0...10,6	75...80 D	50...80	150
yes	>95	excellent	excellent	0,1	10 ¹⁷	2,1	55...60 D	25...30	250

Mounting instructions for high flexible cables

1. CC-Schleppflex/CC-Servoflex on coils should be only recut from the out-to the inside layer and should be installed in the cable chain without any torsion on the cable. This means that the cable should not be twisted in any way (please see picture).
2. It must be ensured that the minimum bending radius is never less than the permitted bending radius.
3. CC-Schleppflex/CC-Servoflex on drums should be unreeled from the drum in order to avoid kinks. Therefore, it should be avoided to take the cable in loops over the flange of the drum. We recommend to install the cable torsion free on the cable chain immediately after cutting the cable in the required length. If it is necessary to stock a precut length, the cable should be stocked stretched. An axial twisting of the cable has to be avoided at any time.
4. Chain cables have to be installed loosely in the cable chain, that is, without any restraint in the cable chain. Do not attach several cables together in the cable chain. Various cables in the cable chain should be separated by separators. The size of the cable chain should be such that they allow sufficient space for cable movements (please see picture).



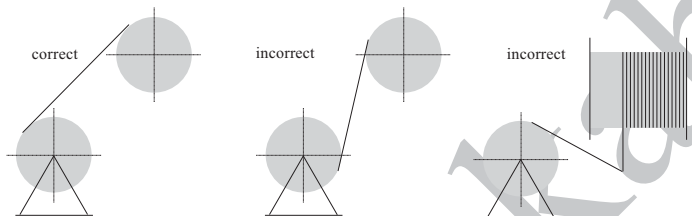
5. For all Schlepflex cable, it is recommended, to check the position of the cable after a short operation time period.
6. The connection, i.e. the fixation point of the cable on each side of the cable chain should be at least 30 x cable diameter from the end of the bending point of the chain. Stress on the fixation point has to be avoided. The strain relief should be applied over a large area of the outer sheath. Crushing the conductors of the cable will shorten the service life of the cable. In any case, the cable can never be moved all the way to the connection point.
7. In case of a shielded cable, we recommend to fasten the shield with the use of a cable tie, in order to avoid dislocation or migration of the shield.
8. If one of the cables in the cable chain is defective, all cables should be replaced, as otherwise quality deviations due to mechanical stress (straining) could occur.
9. If it is technically possible, it is recommended to replace a high core cable with several few core cables. To increase the service life, it is best to coordinate the choice of a cable chain together with the cable.



Installation guide for crane cables

CC-crane cable NSHTÖU-K, NSHTÖUK-Z, CC crane cable PUR

1. If possible the drum should be transported right to the place where it will be used. If the drum cannot be brought to the installation point, then the cable should be unreeled over rollers using a traction rope with cable stocking.
2. During unreeeling, the cable may only be drawn off from a stand supported revolving drum tangentially from above. The cable must be drawn off tight and not be twisted or drawn over edges.
3. Before installing the cable it must be stretched out. If that is not possible the distance between the supply drum and the appliance drum must be kept at a maximum. It may not be wound onto the appliance drum in an S-form or other deformations.



4. The cable must be wound onto the appliance cable drum without any twist and firmly connected to the feed-in of the appliance without any kinking. If there is an overrun when operating the feeder point, then a compensation disc with the corresponding diameter and with 1-2 cable windings be used. If the feed-in point is underground in surface, then a guidance funnel should be inserted over the compensating disc.
5. Large band clamp fittings (length $\varnothing 4 \times D$) should be used to fix the cable to the end of the the guidance duct to avoid crushing of the cable. The unreeled stretch of length of the cable must be at least $40 \times D$ before the fastening point. When the cable is unreeled from the appliance drum, make sure that at least a length of 2 windings always remain on the drum.

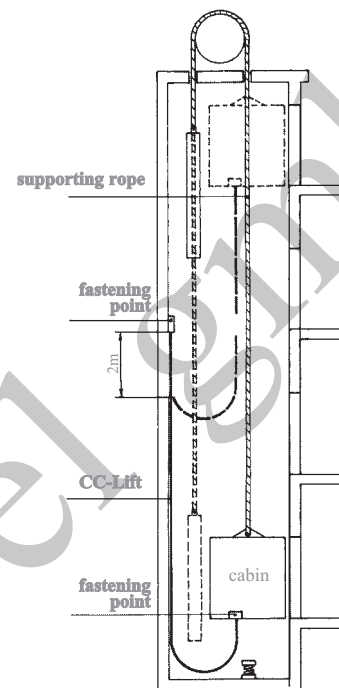
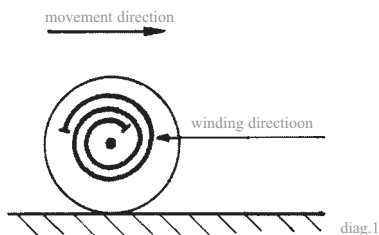
6. Cables with an outer diameter up to 21,5 mm must have an inner bending radius not less then 10 times the diameter of the cable. Greater outer diameters may not fall short of 12,5 times the diameter of the cable. Cables with an outer diameter up to 21,5 mm may have five times of the inner bending radius when used for power supply chains. Greater outer diameters may not be less 6,25 times the diameter of the cable. With NSHTÖUK-Z the inner bending diameter must be generally at least 15 times that of the cable diameter. With the CC-crane cable PUR the inner bending radius must not be less than 20 times the cable diameter.
7. S-twirls should be avoided in the cable. . If this is practically not possible, then the distance between the centres of both cable winding roller axes for cables with a diameter of up to 21,5 mm, should be at least 20 times that. However if the cable has an even greater diameter, then the distance between centres axes must be at least 25 times the cable diameter.
8. The permitted speed may be up to $v = 2$ m/sec with an acceleration of up to $a = 0,4$ m/sec². The static continual tensile stress may not exceed 15 N/mm² of the entire copper cross-section. The dynamic peak tensile strain may not exceed 25 N/mm².

Installation instructions for lift control cables

CC-Lift-H, CC-Lift-S, CC-Lift-2S

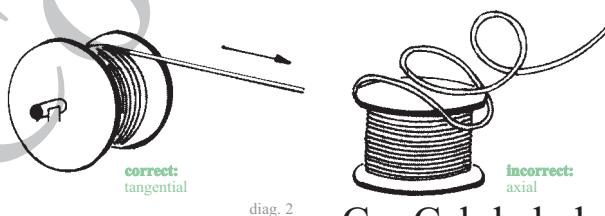
General information

1. These cables can be installed with a temperature range from -15°C to $+70^{\circ}\text{C}$. If the conductor temperature rises due to the current load, the regulations of VDE 0100 must be followed.
2. The inside bending diameter may not be less than 40 times of the cable diameter.
3. The max. suspension length is dependent of the respective supporting core in the cable (see catalogue specifications).
4. The delivered drum should be, if possible, driven directly to the place where the cable will be used. The drum may only be rolled on the ground in the direction indicated (s. diag.1).



Suspending the cables

1. The cables must be tangentially unreeled off the drum when feeding them into the shaft. An axial or overhead unreeling can cause the bundled strands to twist and even break the cores (see diag.3).
2. To ensure a twist-free feed-in, the cable must be allowed to suspend freely in the shaft for a short time period.
3. The free space between the lift cabin and the shaft floor must be sufficiently large enough to accommodate the height of the cable loop (see diag. 3).



Fastening the cables

1. Only large band clamp fittings may be used to fasten the cable whereby the supporting transmission line must be fixed separately.
2. The fastening point on the side of the shaft wall must be at least 2 m above the middle of the travelling distance (see diag.3)
3. If there is an unsteady movement, i.e., the cable swings away from the operating drop line, then the cable should be freely suspended again or be twisted slightly at one of the fastening point to ensure a non kinking run.
4. If the lift installation requires the cabling of several control cables, then it is to be recommended from an operational point of view to hang the individual cables in such a manner that there is a height difference between the various loops of approx. 10 to 20 cm (staggered suspension).

Calculation of metal surcharge price

On account of the unstable prices for metal (stock exchange notation, e.g. DEL*- notation of copper) the selling price for cables is generally at the basic price, i.e., a selling price is drawn up on a fixed metal price. Usually the price is quoted for cables made with copper on the following basis:

Basic copper: 150. - EUR/100 kg (flexible cables)
100. - EUR/100 kg (telephone and communication cables)
0. - EUR/100 kg (power cable) = "hollow price"

The additional copper price is calculated as in the following equation:

$$\text{Copper surcharge in EUR/km} = \text{copper weight in kg/km} \times \frac{(\text{DEL} + 1\% \text{ purchase price}) - \text{copper price in EUR/100 kg}}{100}$$

*DEL (German electrolytic copper for conductive purposes) = national stock exchange notation for 99,5% pure copper in EUR/100 kg (current rate is published in the economic part of daily newspapers or directly on the stock exchange).

Example:

CC-control cable PVC-JZ 25 G 1,5mm² (part no. 110 0015 025)

copper weight = 360 kg/km
DEL = 173 EUR/100kg of day, month, year
copper basis = 150 EUR/100 kg

$$\text{That gives a copper surcharge in EUR /km} = 360 \times \frac{(173 + 1,73) - 150}{100} = 89,03 \text{ EUR/km}$$

In the same way calculations for aluminium, silver, gold and lead are based on the current rate.

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ConCab kabel gmbh General Conditions of Sale

I. General terms

1. The following conditions shall apply to all our quotations and contracts, to current and future transactions. They shall be recognized by the buyer at latest with the receipt of the goods or services and need not be agreed upon expressly.
2. Any diverging agreements, such as amendments, collateral agreements and supplements as well as diverging general terms and conditions or purchasing conditions of our customers are herewith expressly and definitely opposed.
3. Deviations from our terms and conditions shall not become effective unless we have confirmed them in writing and are only effective for the particular project.

II. Prices and shipping costs

1. Our offers and price lists are not binding, they are without obligation and subject to our written order confirmation.
2. Our prices are on principle to be understood in EUR, plus VAT as stipulated by law at the time of shipment, as well as freight and packing costs for the individual order concerned. They only include the mentioned services, any special services shall be invoiced additionally. Shipments outside Germany are not subject to VAT.
3. For a net order value of up to EUR 160,- an additional min. quantity surcharge of EUR 15,- is being invoiced.
4. Prices stipulated by us correspond to the present cost situation. They include a copper basis of EUR 150,- per 100kg copper, excluded are the underground cables with hollow prices (copper basis 0) as well as telephone cables with a copper basis of EUR 100,- per 100 kg copper. Decisive for the determination of the sales price is the value of the corresponding DEL notice at the date of our order confirmation. If the notation of the day differs from the copper basis, the list price for 1000 m cable shall increase by the amount resulting from the multiplication of the copper weight with the difference from the metal notation. The metal calculation for cables with other conductor materials/metals (e.g. nickle, silver, aluminium) shall be analog to the copper price determination in our offers respectively order confirmations. They are valid on conditions of an unhindered execution of the order and unchanged cost of wages and materials. If the costs should have increased by the time of shipment, we shall be entitled to recalculate the prices at the date of shipment. If the increase of the prices agreed upon exceed the general cost of living, the customer shall have the right to withdraw from the contract. If the customer is not a merchant as defined by the Commercial Code, we shall only be entitled to alter the quoted and confirmed prices if shipment is made later than 4 months after conclusion of the contract.

III. Costs for shipping and packing

1. Goods with a value of EUR 300,- or more per shipment will be shipped within Germany to the station of destination carriage paid. However, no freight charges will be reimbursed nor will any collecting compensation be paid in case of collection by the customer. An express shipment of any other special shipping mode required by the customer shall in any case be at his expense.
2. The packing is always invoiced additionally. For large stable containers of wood, metal and other materials we reimburse 3/4 of the packing cost if they are returned undamaged and carriage paid.
3. If cables are supplied on drums from Kabeltrommel GmbH, Cologne (KTG), the drum rent as well as the deposit value will be invoiced according to the KTG contract conditions. As soon as the KTG drums are free, KTG has to be informed accordingly. The corresponding KTG conditions shall be accepted by the customer to whom they will be sent upon request. If the cable is supplied on ConCab drums resp. non-returnable drum, no drum rent will normally be charged. It is only the supplier's choice to decide whether returnable or non-returnable drums are used for shipment. In case of returnable packings/drums, the customer shall be responsible for the correct handling and return, which shall be at his own risk and expense.

IV. Execution and quantity

1. Material, colour, weight, dimensions, technical design or similar characteristics may be subject to alterations provided that the subject delivered remains as a whole acceptable to the customer.
2. All quantities, dimensions and technical information shall in other respects be subject to the commercial tolerances, quantity increases or reductions up to 10% are admissible.

V. Delivery times, self-supply reservation and shipment

1. Our delivery times are to be understood as being approximate.
2. Our delivery times are to be understood ex works or ex stock. They are in any case subject to the fulfilment of the contractual obligations by the customer. Any subsequent amendment or supplement requested by the customer shall postpone the delivery time accordingly.
3. Our delivery commitment shall be subject to self-supply. Even though delivery times are contractually agreed upon, we shall not be responsible for any delays in shipment or servicing caused by force majeure and/or events complicating the delivery or making it impossible, such as unforeseeable difficulties occurred in procuring material, shortage of raw material, official actions, strike, lockout, etc., even if they occur to our suppliers or their sub-suppliers. They entitle us to postpone the shipment by the duration of the impediments plus a reasonable start-up time or to withdraw from the contract in case of impediments which turn out to be of longer duration.
4. A declaration supplied by our supplier or a sub-supplier shall be a sufficient proof that we are prevented from supplying or servicing.
5. Partial shipments shall be possible. Each partial shipment is considered an independent transaction and does not affect the unfulfilled part of the contract. We are at any time entitled to partial shipments or services.

VI. Place of performance, shipment and passing of the risk

1. Place of performance is for both parties the seat of our company.
2. Loading and shipment shall be made to the best of our discretion and always at the customer's risk. The risk passes on as soon as we have shown the readiness for dispatch, at the latest with the beginning of the loading onto the means of transport. The same shall apply if shipment is made free of charge.
3. In case of transport damages, it is up to the customer to immediately arrange with the authority in charge for an ascertainment of the facts as otherwise possible claims against the transporting or insurance company get lost.

VII. Failure to take on delivery

1. In case of the customer's default in taking delivery, we are, after unsuccessful expiration of an adequate period, entitled to either refrain from the contract or to claim indemnification because of non-fulfilment to an amount of 20% of the order value (unless the customer evidences that the damage involved is considerably lower or that there is no damage at all). The assertion of an effectively higher claim remains reserved.

VIII. Terms of payment

1. Our invoices are payable either within 10 days with 2% discount or within 30 days from date of invoice net. Discount shall only be granted if all previous payment obligations have been met. In special cases we reserve the right to ask for advance or immediate payment.
2. We are entitled to charge from the due date on default interests at a rate of 4% above the discount rate as stipulated by the Deutsche Bundesbank. The assertion of additional compensations for additional damages caused by the default shall not be affected.
3. If an order is executed in several shipments, we shall be entitled to invoice the individual shipments separately. In case of delay in payment, we shall have the right to discontinue the supply until payment is made.
4. We accept eligible bills only upon expressive agreement and for the sake of payment. Any costs and expenses involved shall be paid for by the customer. Bills and cheques are only credited after clean receipt of the net value and only to the amount of the same.
5. All our claims shall regardless of any terms of payment, deferment or the life of any bills or papers received, become due immediately if any circumstances (e.g. protest of bills, payments in arrears) which may in our opinion affect the credit-worthiness of the

customer come to our knowledge. We can in this case demand an immediate advance payment and adequate securities for any outstanding supplies and services or withdraw from the contract.

6. If a customer discontinues his payment, becomes bankrupt or aims at the institution of composition proceedings, any discounts, allowances or other price reductions granted on outstanding claims shall be regarded as not being granted.
7. As far as the order belongs to the operation of a commercial business of the customer, the same shall not be authorized to enforce a lien.
8. The setting off of a disputed claims that have not been recognized by declaratory judgment is excluded.

IX. Reservation of the right ownership

1. All goods supplied to the customer shall remain our property until full payment of all our claims, even if the purchase price of specifically denominated claims has been settled.
2. We are the owner of the reserved goods, the customer is the custodian. The customer is as custodian above all obliged to secure and care for the goods properly, making sure that no property or person can be exposed to danger. Any possible risks have to be covered adequately by insurances.
3. The handling and use of the reserved goods is done for us as manufacturers in the meaning of § 950 BGB (German Civil Code), however, without engaging us. The used goods are considered to be reserved goods.
4. If the reserved goods are handled, mixed or connected with reserved goods of other suppliers, the customer assigns his ownership or co-ownership to CC.
5. The customer shall until revoked be allowed to resell the goods supplied by us and the articles resulting from their processing in proper business dealings.
6. The customer assigns us as security all claims resulting from the resale to the amount of our full purchase price claim until the full redemption of all our claims. As far as the goods have been handled, mixed or mingled, the assignment shall be made in proportion of the reservation of ownership to the value of all goods. If the customer has sold the claim within a real factoring, he shall assign us the claim taking its place against the factor. The reservation of ownership shall also remain in force if some of our claims are included in a current invoice, the balance is struck and accepted. The reservation of ownership is due to us not only for the accepted and abstract final balance, but also for the causal balance. The customer shall assign us the claims on the balance in the meaning of § 355 HGB (Commercial Code) in the amount of the claims being due to us. If the value of the securities given to us exceeds our total claims by more than 10%, we shall release securities of our choice upon customer's request.
7. The customer shall be entitled to collect assigned claims as long as he meets his financial obligations with us in accordance with the contract and his property is not subject to forfeiture. He shall in any case no longer be entitled to collection if we withdraw the authorization or disclose the assignment. The customer shall not be entitled to dispose otherwise of the reserved goods (e.g. pledging, assignment as security for a debt). The customer shall upon our request be obliged to inform us about all assigned claims, above all to supply us a list showing the debtors with name, address, amount of the claims, date and number of the invoices as well as any existing global assignments.
8. The customer's right to own reserved goods expires if he gets into arrears concerning his obligations toward us or if circumstances occur which justify according to article VIII, item 5, an immediate maturity acceleration of our claims. The customer shall upon request return the reserved goods at his expense. As indirect owners of the reserved goods we have also the right to enter the customer's premises and to take the reserved goods as security, which cannot automatically be considered a withdrawal from the contract. We are entitled to claim and utilize assets of the customer which are subject to our direct influence as security.

X. Warranty

1. We only supply goods that meet the current state of technical development. As far as standards (DIN) or other regulation (VDE) are available, we supply goods that have been manufactured according to these regulations.
2. The goods supplied by us have to be checked for defects immediately upon receipt at the place of destination, also if samples had been sent. The shipment and/or service is considered accepted if we are not given written notice of obvious defects or defects detected during the inspection within a preclusive period of eight days after arrival of the goods at the place of destination, but in any case before connection, installation or processing. The notice shall in any case show the delivery note and invoice number.
3. Our warranty is limited to rectifications of defects respectively replacements of our choice. The customer has to give us time and occasion in an adequate way. If rectifications of defects or replacements turn out to be obviously unsuccessful or if we reject the remedy of a defect because of disproportionately high expenses, the customer shall have the right of claiming either a compensation or withdrawing from the contract.
4. Warranty claims are subject to a limitation period of six months after passing of the risk, in case of acceptance after the acceptance. A rectification of defects or replacement does neither suspend nor interrupt the limitation period of warranty claims.
5. We shall not be responsible for damages being due to improper handling and storing, faulty installation or natural wear. Repair works or other interventions carried out by the customer or third parties without our consent shall exclude any warranty.
6. Replaced parts shall be our property.

XI. Liability

1. Claims for indemnification are, with exception of the restrictions mentioned under the following item, excluded regardless of their legal grounds, provided they are not subject to a grossly negligent or willful violation of our contractual obligations.
2. In case of our delay or failure to supply, for which we are responsible, our obligation for indemnification shall be limited to 10% of the value of the part of supply in question. This does not affect our liability concerning characteristics guaranteed by us.
3. We are not liable for indirect or consequential damages.
4. All claims for indemnification, for whatever legal ground, are subject to a limitation period of six months after passing of the risk, in case of acceptance after the acceptance.
5. Any written or verbal suggestions concerning use or models are made to the best of our knowledge. They are not binding and no responsibility is taken. They do by no means release the customer from own tests or inspections.

XII. Binding force of a contract, place of jurisdiction

1. The ineffectiveness of individual contractual regulations does not affect the validity of the remaining regulations. The customer and the supplier agree to secure as far as possible the economic success aimed at an ineffective clause in another legally admissible way.
2. Jurisdiction for all rights and obligation, also from bills and cheques, is at our choice Schwäbisch Hall or Heilbronn, as far as customers are merchants who have been entered as merchants in the commercial register, legal persons under public law or persons who have no general jurisdiction in Germany. This does also apply to those being liable for the customer's obligations. We are in any case entitled to take also legal actions at the customer's seat.

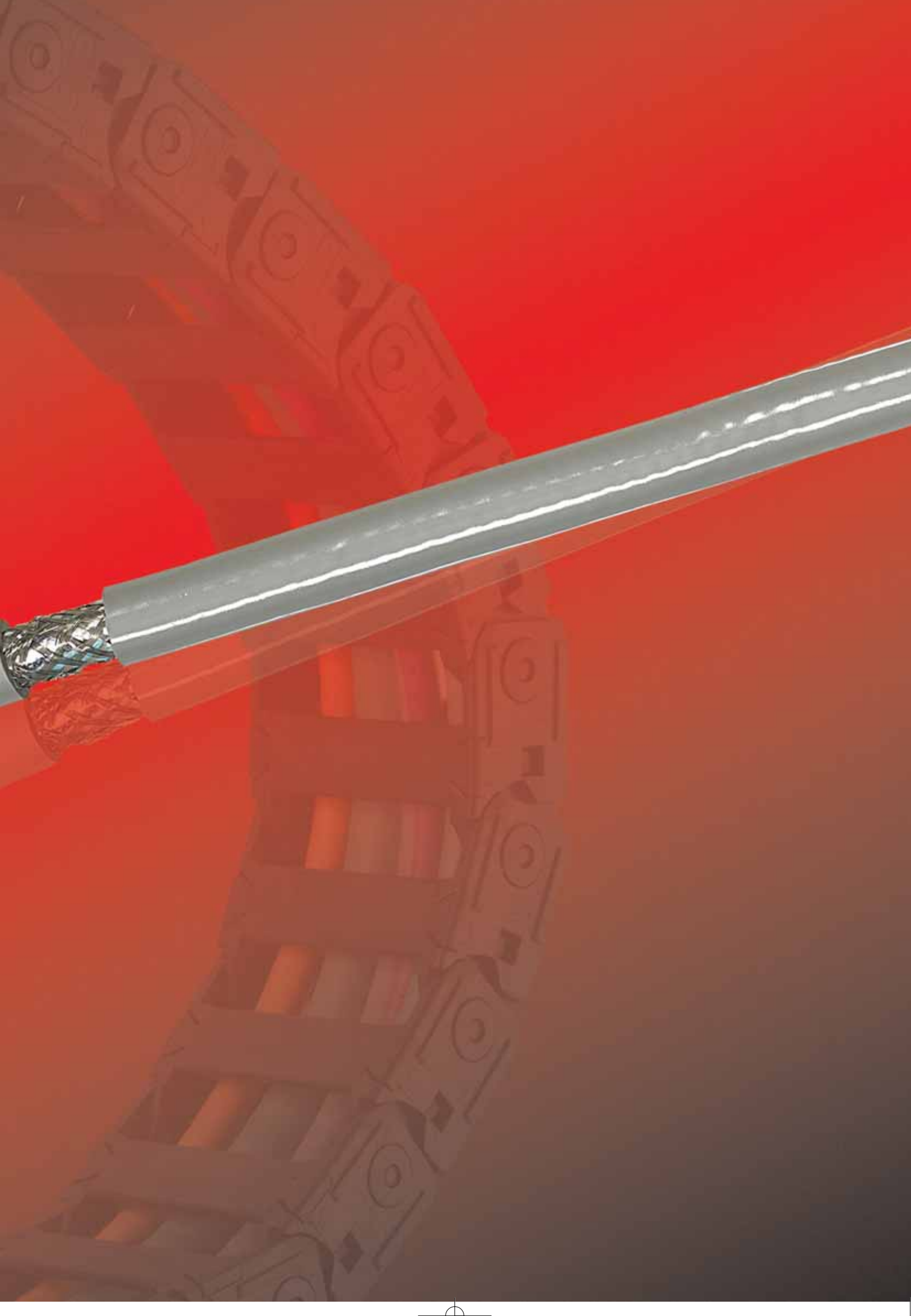
XIII. Others

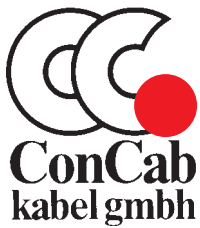
1. Return of goods are only accepted after previous written agreement. Handling - and freightcharges to the debit of the customer.
2. For construction - and programalterations all rights reserved by ConCab.
3. In case of resell by a German customer into a foreign country, the German customer needs to investigate whether the exported goods confirm to the restrictions under the Foreign Trade and Industry Law of the German Federal Republic. The exporter himself is responsible for observing the appropriate regulations.

With the date of publishing these conditions of sale, all previous conditions will no longer be valid. All offers are also based on these conditions of sale.

04/05







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ConCab customers not only in Europe.



Even the longest trip is worth it.