

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.

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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.

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