

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

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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.

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