

Control cable

Chainflex® CF9

TPE-low-temperature-flexible Energy Chain® control cable for heavy-duty use, oil-resistant, bio-oil-resistant*, PVC-free/halogen-free, UV-resistant

Conductor
Highly flexible special conductor

Strain relief
Center element for high tensile stresses

Stranding
Braiding in bundles around high-tensile center cord

Outer jacket
Gusset-filling, pressure extruded, halogen-free TPE blend

Structure

Conductor: stranded conductor in especially bending-resistant version consisting of bare copper wires.

Core insulation: thin-wall version made of TPE.

Core stranding: number of cores <12: cores stranded in a layer with short pitch length. Number of cores ≥12: cores combined in bundles and stranded together around a centre for high tensile stresses with adapted, short pitch lengths and pitch directions, especially low-torsion structure.

Core identification: cores black with white numerals, one core green/yellow, starting from a cross section of 0.75 mm², below that value, color code in accordance with DIN 47100.

Outer jacket: TPE. Especially abrasion-resistant, highly flexible mixture, oil-resistant, coolant-resistant. Color: dark-blue (similar to RAL 5011)

Technical data

Minimum bending radius for use in Energy Chains®: 5 x cable diameter (smaller radii are often possible - please discuss with us).

Temperature range moved: -35 °C to +100 °C

Nominal voltage: 300/500 V on the basis of VDE. Higher nominal voltage, see table.

Insulation resistance: ≥ 20 M Ω x km

Regulations: the cables are manufactured on the basis of VDE.

Application area Chainflex® CF9, TPE, oil-resistant

● Unshielded highly flexible Energy Chain® control cable for maximum demands ● PVC-free/halogen-free ● UV-resistant, maximum abrasion resistance ● Especially for long (400 m and more) and short distances ● Indoor and outdoor areas ● Almost unlimited resistance to oil, also with bio-oils* ● Machine tools, processing machines, outdoor ship to shore, crane applications, deep-freeze store, clean-room, handling operations, etc. ● Approvals: CE

* tested in accordance with VDMA 24568 with Plantocut 8 S-MB from DEA

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Price index



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CF9

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter [mm] approx.	Copper index kg/km	Weight kg/km
CF9.03.16.07.03.INI	4 x 4 x 0,34 + 3 x 0,75	11,0	74	159
CF9.02.02	2 x 0,25	4,5	5	18
CF9.02.03.INI	3 x 0,25	4,5	8	20
CF9.02.06	6 x 0,25	5,5	15	35
CF9.02.07	7 x 0,25	6,0	17	42
CF9.02.08	8 x 0,25	6,5	20	46
CF9.02.12	12 x 0,25	8,0	29	70
CF9.03.04.INI	4 x 0,34	5,0	13	31
CF9.03.05.INI	5 x 0,34	5,5	17	37
CF9.03.06	6 x 0,34	6,0	20	43
CF9.03.08	8 x 0,34	6,5	26	55
CF9.05.02	2 x 0,5	5,0	10	31
CF9.05.03	3 x 0,5	5,5	15	32
CF9.05.04	4 x 0,5	5,5	20	36
CF9.05.05	5 x 0,5	6,0	24	46
CF9.05.07	7 x 0,5	7,0	34	78
CF9.05.12	12 x 0,5	9,5	58	105
CF9.05.18**	18 x 0,5	12,5	86	165
CF9.05.25	25 x 0,5	13,5	120	201
CF9.05.36	36 x 0,5	17,5	173	368
CF9.07.05	5 x 0,75	6,5	36	58
CF9.07.07	7 x 0,75	7,0	50	76
CF9.07.12	12 x 0,75	11,0	86	142
CF9.07.20	20 x 0,75	13,0	144	231
CF9.07.25	25 x 0,75	14,5	180	320
CF9.10.03	3 x 1,0	6,0	29	49
CF9.10.04	4 x 1,0	6,5	38	56
CF9.10.05	5 x 1,0	7,0	48	70
CF9.10.12	12 x 1,0	11,5	115	181
CF9.10.18	18 x 1,0	14,0	173	267
CF9.10.25	25 x 1,0	17,0	241	329
CF9.15.04	4 x 1,5	7,5	58	86
CF9.15.05	5 x 1,5	8,0	72	110
CF9.15.07	7 x 1,5	9,0	101	140
CF9.15.12	12 x 1,5	14,0	173	265
CF9.15.18	18 x 1,5	17,0	260	400
CF9.15.25	25 x 1,5	20,0	360	602
CF9.25.04	4 x 2,5	9,0	96	128
CF9.25.05	5 x 2,5	10,0	120	174
CF9.25.07	7 x 2,5	12,0	168	301
CF9.25.12	12 x 2,5	17,0	288	468
CF9.25.16	16 x 2,5	21,0	384	600
CF9.25.18***	18 x 2,5	24,0	432	827
CF9.40.04	4 x 4,0	10,0	154	195
CF9.60.04	4 x 6,0	12,5	230	310
CF9.60.05	5 x 6,0	14,0	288	400
CF9.100.04****	4 x 10,0	15,5	384	515
CF9.160.04****	4 x 16,0	20,0	614	780
CF9.350.04****	4 x 35,0	26,0	1344	1700

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Chainflex®

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