

CF77.UL.D
PUR
6.8-7.5xd



Fine-wire stranded conductor



Center element for high tensile stresses



Braiding in bundles around high-tensile center cord



Gusset-filled extruded

Class 5.2.3



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PUR Control cable Chainflex® CF77.UL.D

- for high load requirements
- PUR outer jacket
- oil-resistant and coolant-resistant
- flame-retardant
- notch-resistant
- PVC-free/halogen-free



Temperature range moved

-35 °C to +80 °C, minimum bending radius 6.8 x d with < 10 m travel distance, minimum bending radius 7.5 x d



Temperature range fixed

-40 °C to +80 °C, minimum bending radius 4 x d



v max.

10 m/s, 5 m/s



unsupported/gliding a max.

80 m/s²



Travel distance

Freely suspended and gliding travel distances up to 100 m, Class 2



UV-resistant

Medium



Nominal voltage

Number of cores < 12: 300/500 V

Number of cores ≥ 12: 300/300 V (following DIN VDE 0245)



Testing voltage

2000 V (following DIN VDE 0281-2)



Oil

Oil-resistant (following DIN EN 60811-2-1, DIN EN 50363-10-2), Class 3



Flame-retardant

According to IEC 332-1, CEI 20-35, FT1



Silicon-free

Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)



Halogen-free

Following EN 50267-2-1



Conductor

Fine-wire stranded conductor consisting of bare copper wires (following EN 60228)



Core insulation

Mechanically high-quality TPE mixture.



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 < 0.5 mm²: Colour code in accordance with DIN 47100.

Cores ≥ 0.5 mm²: cores black with white numerals, one core green-yellow.



Outer jacket

Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in Energy Chains® (following DIN VDE 0282 Part 10).

Colour: gray (similar to RAL 7040)

Style 10493 and 20233, 300 V, 80 °C



UL/CSA



CEI

Following CEI 20-35



CE

Following 2006/95/EG

... no minimum order quantity
eplan download, configurator, PDF catalogues, lifetime ...

Class 5.2.3

Price index


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DESINA

According to VDW, DESINA standardisation



Lead free

Following EU guideline (RoHS) 2002/95/EC

Typical application area

- for high load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications with average sun radiation
- especially for freely suspended and gliding travel distances up to 100 m
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [kg/km]	
CF77.UL.02.04.D	4 x 0,25	5,5	10	34	New
CF77.UL.05.04.D	4 G 0,5	6,0	19	48	
CF77.UL.05.05.D	5 G 0,5	6,5	24	55	
CF77.UL.05.12.D	12 G 0,5	10,0	57	128	
CF77.UL.05.18.D	18 G 0,5	12,0	86	188	
CF77.UL.05.25.D ⁽¹⁾	25 G 0,5	13,5	119	244	
CF77.UL.05.30.D ⁽¹⁾	30 G 0,5	14,5	143	297	
CF77.UL.07.03.D	3 G 0,75	6,0	21	52	
CF77.UL.07.04.D	4 G 0,75	6,5	28	61	
CF77.UL.07.05.D	5 G 0,75	7,0	35	71	
CF77.UL.07.07.D	7 G 0,75	8,0	49	100	
CF77.UL.07.12.D	12 G 0,75	11,5	84	183	
CF77.UL.07.18.D	18 G 0,75	13,5	126	247	
CF77.UL.07.20.D	20 G 0,75	14,0	140	277	
CF77.UL.10.02.D ⁽¹⁾	2 x 1,0	6,0	20	52	
CF77.UL.10.03.D	3 G 1,0	6,5	29	61	
CF77.UL.10.04.D	4 G 1,0	7,0	39	75	
CF77.UL.10.05.D	5 G 1,0	7,5	49	91	
CF77.UL.10.07.D	7 G 1,0	8,5	68	112	
CF77.UL.10.12.D	12 G 1,0	11,5	116	222	
CF77.UL.10.18.D	18 G 1,0	14,5	174	321	
CF77.UL.10.25.D	25 G 1,0	17,0	240	406	New
CF77.UL.15.03.D	3 G 1,5	7,0	42	81	
CF77.UL.15.04.D	4 G 1,5	7,5	55	99	
CF77.UL.15.05.D	5 G 1,5	8,0	69	117	
CF77.UL.15.07.D	7 G 1,5	10,0	96	164	
CF77.UL.15.12.D	12 G 1,5	14,0	165	290	
CF77.UL.15.18.D	18 G 1,5	17,0	260	397	New
CF77.UL.15.25.D	25 G 1,5	19,5	360	555	New
CF77.UL.25.04.D	4 G 2,5	9,0	91	145	
CF77.UL.25.05.D ⁽¹⁾	5 G 2,5	10,5	120	179	
CF77.UL.25.07.D	7 G 2,5	12,5	168	253	
CF77.UL.40.04.D ⁽¹⁾	4 G 4,0	11,5	154	242	

⁽¹⁾ Delivery time upon inquiry

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

G = with earthed conductor green-yellow x = without earthed conductor

Control cable

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(for up to 10 cuts of the same type)