















PUR Control cable, twistable | CF77.UL.D












- for twistable loads
- PUR outer jacket
- oil-resistant and coolant-resistant
- notch-resistant
- flame-retardant
- hydrolysis-resistant and microbe-resistant
- PVC-free/halogen-free

	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 CF77.UL.03.04.INI: brown, blue, black, white
	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: Window grey (similar to RAL 7040) CF77.UL.03.04.INI: Colour: Colza yellow (similar to RAL 1021)
	Bending radius	twistable minimum 6,8-7,5 x d fixed minimum 4 x d
	Temperature	twistable -35 °C to +80 °C fixed -40 °C to +80 °C
	v max. twisted	180°/s
	a max. twisted	60°/s²
	Travel distance	Robots and movements in the 3D range, Class 3
	Torsion	± 180°, with 1 m cable length
	UV-resistant	Medium
	Nominal voltage	Number of cores < 12: 300/500 V Number of cores < 12 (0,25-0,34): 300/300 V Number of cores ≥ 12: 300/300 V (following DIN VDE 0245)
	Testing voltage	2000 V (following DIN VDE 0281-2)

 eplan download, configurator ► www.igus.eu/eu/CF77R

1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

Class 5.3.3 (5 high load requirements 3 travel distance up to 100 m 3 oil-resistant)

	Oil	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	Offshore	MUD-resistant following NEK 606 – status 2009.
	Flame-retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)
	Halogen-free	Following EN 50267-2-1
	UL/CSA	Style 10493 and 20233, 300 V, 80 °C
	NFPA	Following NFPA 79-2012 chapter 12.9 (starting from manufacturing date 9/2011)
	CEI	Following CEI 20-35
	CE	Following 2006/95/EG
	DESINA	According to VDW, DESINA standardisation
	Lead free	Following 2011/65/EC (RoHS-II)

Typical application area

- for maximum load requirements with torsion movements
- almost unlimited resistance to oil
- indoor and outdoor applications with average sun radiation
- especially for robots and movements in the 3D range
- robots, handling, spindle drives



... no minimum order quantity ...
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Image exemplary.

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	11	35
CF77.UL.03.04.INI	4 x 0,34	5,5	15	36
CF77.UL.05.04.D	4 G 0,5	6,0	22	50
CF77.UL.05.05.D	5 G 0,5	6,5	27	57
CF77.UL.05.07.D	7 G 0,5	7,5	37	79
CF77.UL.05.12.D	12 G 0,5	10,0	64	134
CF77.UL.05.18.D	18 G 0,5	12,0	95	197
CF77.UL.05.25.D	25 G 0,5	14,0	132	256
CF77.UL.05.30.D	30 G 0,5	15,0	159	311
CF77.UL.07.03.D	3 G 0,75	6,5	24	55
CF77.UL.07.04.D	4 G 0,75	7,0	32	64
CF77.UL.07.05.D	5 G 0,75	7,5	40	75
CF77.UL.07.07.D	7 G 0,75	8,5	56	106
CF77.UL.07.12.D	12 G 0,75	12,0	95	192
CF77.UL.07.18.D	18 G 0,75	13,5	143	260
CF77.UL.07.20.D	20 G 0,75	14,5	159	292
CF77.UL.07.25.D	25 G 0,75	16,0	198	368
CF77.UL.07.36.D	36 G 0,75	18,5	286	503
CF77.UL.07.42.D ⁽¹⁾	42 G 0,75	21,0	333	546
CF77.UL.10.02.D	2 x 1,0	6,5	22	54
CF77.UL.10.03.D	3 G 1,0	6,5	32	64
CF77.UL.10.04.D	4 G 1,0	7,0	43	79
CF77.UL.10.05.D	5 G 1,0	8,0	53	97
CF77.UL.10.07.D	7 G 1,0	9,0	74	119
CF77.UL.10.12.D	12 G 1,0	12,5	127	233
CF77.UL.10.18.D	18 G 1,0	15,0	190	338
CF77.UL.10.25.D	25 G 1,0	17,0	264	430
CF77.UL.10.42.D	42 G 1,0	23,0	444	675

New*

New*

(1) Delivery time upon inquiry.
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core x = without earth core
* New in this catalogue.

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.15.03.D	3 G 1,5	7,5	48	74
CF77.UL.15.04.D	4 G 1,5	8,0	64	91
CF77.UL.15.05.D	5 G 1,5	8,5	80	110
CF77.UL.15.07.D ⁽¹⁷⁾	7 G 1,5	10,5	111	159
CF77.UL.15.12.D	12 G 1,5	14,0	190	309
CF77.UL.15.18.D	18 G 1,5	17,0	286	423
CF77.UL.15.25.D	25 G 1,5	19,5	396	591
CF77.UL.15.36.D ⁽¹⁾	36 G 1,5	23,5	570	776
CF77.UL.15.42.D ⁽¹⁾	42 G 1,5	26,5	666	912
CF77.UL.25.03.D	3 G 2,5	8,5	80	116
CF77.UL.25.04.D	4 G 2,5	9,5	106	148
CF77.UL.25.05.D	5 G 2,5	10,5	132	177
CF77.UL.25.07.D ⁽¹⁷⁾	7 G 2,5	12,5	185	257
CF77.UL.40.04.D ⁽¹⁾	4 G 4,0	11,5	169	258

(1) Delivery time upon inquiry.
(17) Using the cables with "7 G 1,5 mm²" and "7 G 2,5 mm²" it is essential: bending radius 17 x d with travel distance ≥ 5 m.
When the travel distance is not less than 5 m, a bending radius not less than 17 x d has to be used.
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core x = without earth core

Order example: CF77.UL.10.03.D – in your desired length (0,5 m steps)
CF77.UL.D chainflex® series .10 Code nominal cross section .03 Number of cores

prices price list online
www.chainflex.eu/eu/CF77R

delivery despatched in
time 24 hours or today

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... no minimum order quantity ...
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