




















PUR Control cable | CF180





- for medium load requirements
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- PVC-free/halogen-free
- low-temperature-flexible

	Conductor	Fine-wire stranded conductor consisting of bare copper wires (following EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores stranded in layers with short pitch length.
	Core identification	Cores black with white numerals, one core green-yellow.
	Inner jacket	PUR mixture adapted to suit the requirements in energy chains®.
	Overall shield	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
	Outer jacket	Low-adhesion 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)
	Bending radius	moved < 10 m travel moved minimum 7,5 x d ≥ 10 m travel moved minimum 15 x d fixed minimum 7,5 x d
	Temperature	moved -35 °C to +80 °C fixed -40 °C to +80 °C
	v max.	3 m/s, 2 m/s
	unsupported/gliding	
	a max.	20 m/s²
	Travel distance	Freely suspended travel distances and up to 20 m for gliding applications, Class 2
	UV-resistant	Medium
	Nominal voltage	300/500 V (following DIN VDE 0245).
	Testing voltage	2000 V (following DIN VDE 0281-2).
	Oil	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	Offshore	MUD-resistant following NEK 606 – status 2009.
	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).

 eplan download, configurator ► www.igus.eu/CF180

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

Class 4.2.3 (4 medium load requirements 2 travel distance up to 20 m 3 oil-resistant)

	Halogen-free	Following EN 50267-2-1.
	CE	Following 2006/95/EG
	Lead free	Following 2011/65/EC (RoHS-II)
	EAC	Certified according to N° TC RU C-DE.ME77.B.00960

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ► Page 22-25

Temperature, from/to [°C]	Travel distance [m]	5 million		7,5 million		10 million	
		R min. [factor x d] < 10 m	R min. [factor x d] ≥ 10 m	R min. [factor x d] < 10 m	R min. [factor x d] ≥ 10 m	R min. [factor x d] < 10 m	R min. [factor x d] ≥ 10 m
-35 / -25	≤ 20	10	12,5	11	13,5	12	14,5
-25 / +70		7,5	15	8,5	16	9,5	17
+70 / +80		10	12,5	11	13,5	12	14,5


* higher number of double strokes possible

Typical application area

- for medium load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications without direct sun radiation
- freely suspended travel distances and up to 20 m for gliding applications
- Machining units/machine tools, low temperature applications

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF180.05.18	(18 G 0,5)C	12,0	134	213
CF180.07.03	(3 G 0,75)C	8,0	44	99
CF180.07.05	(5 G 0,75)C	8,5	68	125
CF180.07.12	(12 G 0,75)C	11,5	134	228
CF180.07.18	(18 G 0,75)C	13,5	193	317
CF180.10.05	(5 G 1,0)C	9,5	83	141
CF180.10.18	(18 G 1,0)C	14,5	262	380
CF180.15.03	(3 G 1,5)C	8,5	74	102
CF180.15.04	(4 G 1,5)C	9,0	94	141
CF180.15.07	(7 G 1,5)C	11,5	161	233
CF180.25.04	(4 G 2,5)C	11,5	143	234
CF180.25.05	(5 G 2,5)C	12,5	182	299
CF180.25.07	(7 G 2,5)C	14,0	248	361

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: CF180.07.05 – in your desired length (0,5 m steps)**
CF180 chainflex® series .07 Code nominal cross section .05 Number of cores

 **prices** price list online
www.chainflex.eu/CF180

 **delivery time** despatched in 24 hours or today

... no minimum order quantity ...

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