

CF170.D  
PUR  
7,5-10xd

# PUR Control cable | CF170.D

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



	<b>Conductor</b>	Fine-wire stranded conductor consisting of bare copper wires (following EN 60228).
	<b>Core insulation</b>	Mechanically high-quality TPE mixture.
	<b>Core stranding</b>	Cores stranded in layers with short pitch length.
	<b>Core identification</b>	Cores black with white numerals, one core green-yellow.
	<b>Outer jacket</b>	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)
	<b>Bending radius</b>	<b>moved</b> < 10 m travel moved minimum 7,5 x d ≥ 10 m travel moved minimum 10 x d <b>fixed</b> minimum 5 x d
	<b>Temperature</b>	<b>moved</b> -35 °C to +80 °C <b>fixed</b> -40 °C to +80 °C
	<b>v max.</b>	3 m/s, 2 m/s
	<b>unsupported/gliding</b>	
	<b>a max.</b>	20 m/s <sup>2</sup>
	<b>Travel distance</b>	Freely suspended travel distances and up to 20 m for gliding applications, Class 2
	<b>UV-resistant</b>	Medium
	<b>Nominal voltage</b>	300/500 V (following DIN VDE 0245).
	<b>Testing voltage</b>	2000 V (following DIN VDE 0281-2).
	<b>Oil</b>	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	<b>Offshore</b>	MUD-resistant following NEK 606 – status 2009.
	<b>Silicon-free</b>	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	<b>Halogen-free</b>	Following EN 50267-2-1.
	<b>CE</b>	Following 2006/95/EG

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

- DESINA** According to VDW, DESINA standardisation
- 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]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35 / -25	≤ 20	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
-25 / +70		10	12,5	11	13,5	12	14,5
+70 / +80		7,5	10	8,5	11	9,5	12
		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

Image exemplary.

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IGUS® CHAINFLEX® CF170.D

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF170.05.12.D	12 G 0,5	9,0	64	129
CF170.05.18.D	18 G 0,5	10,5	96	186
CF170.05.30.D	30 G 0,5	13,0	150	296
CF170.07.03.D	3 G 0,75	6,0	24	49
CF170.07.05.D	5 G 0,75	7,0	40	81
CF170.07.07.D	7 G 0,75	8,0	56	106
CF170.07.12.D	12 G 0,75	10,0	93	164
CF170.07.18.D	18 G 0,75	11,5	143	242
CF170.07.20.D	20 G 0,75	12,0	152	260
CF170.10.03.D	3 G 1,0	6,5	32	58
CF170.10.04.D	4 G 1,0	7,0	43	76
CF170.10.05.D	5 G 1,0	7,5	53	92
CF170.10.07.D	7 G 1,0	8,5	74	124
CF170.10.12.D	12 G 1,0	10,5	121	197
CF170.10.18.D	18 G 1,0	12,5	184	291
CF170.10.25.D	25 G 1,0	15,0	264	397
CF170.15.03.D	3 G 1,5	7,0	48	85
CF170.15.04.D	4 G 1,5	7,5	61	106
CF170.15.05.D	5 G 1,5	8,0	80	119
CF170.15.07.D <sup>(17)</sup>	7 G 1,5	10,0	112	176
CF170.15.12.D	12 G 1,5	12,5	191	287
CF170.15.18.D	18 G 1,5	14,0	285	413
CF170.15.25.D	25 G 1,5	17,5	396	579
CF170.25.04.D	4 G 2,5	9,0	106	168
CF170.25.05.D	5 G 2,5	10,0	132	201
CF170.25.07.D <sup>(17)</sup>	7 G 2,5	12,5	185	288
CF170.40.04.D	4 G 4,0	11,0	169	258
CF170.60.04.D	4 G 6,0	13,0	253	393
CF170.100.04.D	4 G 10,0	17,5	423	604

<sup>(17)</sup> Using the cables with "7 G 1,5 mm<sup>2</sup>" and "7 G 2,5 mm<sup>2</sup>" it is essential: bending radius 17 x d with travel distance  $\geq 5$  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

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