

# PUR Control cable, twistable | CFROBOT2

- for twistable loads
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- notch-resistant
- flame-retardant
- hydrolysis-resistant and microbe-resistant

	<b>Conductor</b>	Stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228).
	<b>Core insulation</b>	Mechanically high-quality TPE mixture.
	<b>Core identification</b>	Cores black with white numerals, one core green-yellow.
	<b>Element shield</b>	Extremely torsion resistant tinned braided copper shield. Coverage approx. 85% optical.
	<b>Outer jacket</b>	Low-adhesion, halogen-free, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). Colour: Steel blue (similar to RAL 5011)
	<b>Bending radius</b>	<b>twistable</b> minimum 10 x d <b>moved</b> minimum 7,5 x d <b>fixed</b> minimum 5 x d
	<b>Temperature</b>	<b>twistable</b> -25 °C to +80 °C <b>fixed</b> -40 °C to +80 °C
	<b>v max. twisted</b>	180°/s
	<b>a max. twisted</b>	60°/s²
	<b>Travel distance</b>	For twistable applications, but also for freely suspended travel distances and up to 10 m for gliding applications, Class 6
	<b>Torsion</b>	± 180°, with 1 m cable length
	<b>UV-resistant</b>	High
	<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>Flame-retardant</b>	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
	<b>Silicon-free</b>	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	<b>UL/CSA</b>	Style 10493 and 20317, 300 V, 80 °C

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

## Class 6.6.3 (6 maximum load requirements 6 travel distance twisted 3 oil-resistant)

	<b>NFPA</b>	Following NFPA 79-2012 chapter 12.9
	<b>CEI</b>	Following CEI 20-35
	<b>CE</b>	Following 2006/95/EG
	<b>Lead free</b>	Following 2011/65/EC (RoHS-II)
	<b>Clean room</b>	According to ISO Class 1. Outer jacket material complies with CF27.07.05.02.01.D, tested by IPA according to standard 14644-1
	<b>CTP</b>	Certified according to N° C-DE.PB49.V.00396
	<b>EAC</b>	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**

Cycles*	5 million		7,5 million		10 million	
Temperature, from/to [°C]	v max. [°/s] tordiert	a max. [°/s²] tordiert	Torsion max. [°]	Torsion max. [°]	Torsion max. [°]	Torsion max. [°]
-25 / -15			±150	±90	±30	
-15 / +70	180	60	±180	±120	±60	
+70 / +80			±150	±90	±30	

\* higher number of cycles possible

### Typical application area

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

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFROBOT2.07.04.C <sup>(1)</sup>	(4 G 0,75)C	8,5	45	84
CFROBOT2.07.05.C	(5 G 0,75)C	8,5	54	94
CFROBOT2.07.07.C	(7 G 0,75)C	10,0	75	130
CFROBOT2.07.12.C <sup>(1)</sup>	(12 G 0,75)C	14,0	131	219
CFROBOT2.07.18.C	(18 G 0,75)C	16,5	197	321

(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

**Order example: CFROBOT2.07.05.C in your desired length (0,5 m steps)**  
CFROBOT2 chainflex® series .07 Code nominal cross section .05 Number of cores .C shielded

**prices** price list online  
[www.chainflex.eu/CFROBOT](http://www.chainflex.eu/CFROBOT)

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

**... no minimum order quantity ...**

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