

















PUR Power cable, twistable | CFROBOT6/7










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

	Conductor	Stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core identification	Energy conductor: Cores black with white numerals, one core green-yellow ▶ Schedule delivery program 2 signal pairs: Cores black with white numerals. 1. control core: 5 2. control core: 6 3. control core: 7 4. control core: 8 4 signal pairs: Colour code in accordance with DIN 47100
	Overall shield	Extremely torsion resistant tinned braided copper shield. Coverage approx. 85% optical.
	Outer jacket	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)
	Bending radius	twistable minimum 10 x d moved minimum 7,5 x d fixed minimum 5 x d
	Temperature	twistable -25 °C to +80 °C fixed -40 °C to +80 °C
	v max. twisted	180°/s
	a max. twisted	60°/s²
	Travel distance	For twistable applications, but also for freely suspended travel distances and up to 10 m for gliding applications, Class 6
	Torsion	± 180°, with 1 m cable length
	UV-resistant	High
	Nominal voltage	600/1000 V (following DIN VDE 0250).
	Testing voltage	4000 V (following DIN VDE 0281-2).
	Oil	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	Flame-retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

 eplan download, configurator ▶ www.igus.eu/CFROBOT

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)

	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	UL/CSA	Style 10492 and 21223, 1000 V, 80 °C
	NFPA	Following NFPA 79-2012 chapter 12.9
	CEI	Following CEI 20-35
	CE	Following 2006/95/EG
	Lead free	Following 2011/65/EC (RoHS-II)
	Clean room	According to ISO Class 1. Outer jacket material complies with CF27.07.05.02.01.D, tested by IPA according to standard 14644-1
	CTP	Certified according to N° C-DE.PB49.V.00397
	EAC	Certified according to N° TC RU C-DE.ME77.B.00964

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. [°]
-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

... no minimum order quantity ...

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu





Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFROBOT6.100.03 ⁽¹²⁾	3G10	16,0	317	414
CFROBOT6.160.03 ⁽¹²⁾	3G16	18,5	508	618
CFROBOT6.250.03 ⁽¹²⁾	3G25	23,0	795	962
CFROBOT6.350.03 ⁽¹²⁾	3G35	25,5	1122	1298
Without signal pair				
CFROBOT7.15.03.C ⁽¹²⁾	(3G1,5)C	8,5	64	103
CFROBOT7.15.04.C ⁽¹³⁾	(4G1,5)C	9,5	82	127
CFROBOT7.25.03.C ⁽¹²⁾	(3G2,5)C	10,0	98	147
CFROBOT7.25.04.C ⁽¹³⁾	(4G2,5)C	10,5	127	182
CFROBOT7.60.04.C ⁽¹³⁾	(4G6,0)C	15,0	296	403
2 signal pairs				
CFROBOT7.15.15.02.02.C ⁽¹⁴⁾	(4G1,5+2x(2x1,5)C)C	16,5	211	325
CFROBOT7.25.15.02.02.C ⁽¹⁴⁾	(4G2,5+2x(2x1,5)C)C	17,0	259	381
4 signal pairs				
CFROBOT7.40.02.02.04.C ⁽¹⁴⁾	(4G4+4x(2x0,25)C)C	17,0	270	384


(12) Core identification energy conductor: 1. core: 1 2. core: 2

(13) Core identification energy conductor: 1. core: 1 2. core: 2 3. core: 3

(14) Core identification energy conductor: 1. core: U / L1 / C / L+ 2. core: V / L2 3. core: W / L3 / D / L-

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: CFROBOT6.100.03 – in your desired length (0,5 m steps)**
CFROBOT6 chainflex® series .100 Code nominal cross section .03 Number of cores

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

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

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

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(for up to 10 cuts of the same type)

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