



















PUR Measuring system cable, twistable | CFROBOT4







- for twistable loads
- PUR outer jacket
- 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	According to measuring system specification ► Schedule Delivery Program
	Element shield	Extremely torsion resistant tinned braided copper shield. Coverage approx. 85% optical.
	Overall shield	Torsion resistant tinned braided copper shield. Coverage approx. 80% 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	50 V
	Testing voltage	500 V
	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
	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).

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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)

	UL/CSA	Style 1589 and 20236, 30 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

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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

... no minimum order quantity ...

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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]	Part No.	Core group	Colour code
CFROBOT4.001	(3x(2x0,14)C+(4x0,14)+(2x0,5)C)	10,5	65	119	CFROBOT4.001	3x(2x0,14)C 4x0,14 2x0,5	green/yellow, black/brown, red/orange grey, blue, white-yellow, white-black brown-red, brown-blue
CFROBOT4.002 ⁽¹⁾	(3x(2x0,14)C+2x(0,5)C)C	10,5	70	122	CFROBOT4.002 ⁽¹⁾	3x(2x0,14)C 2x(0,5)C	green/yellow, black/brown, red/orange black, red
CFROBOT4.006	(3x(2x0,14)C+(4x0,14)+(4x0,22)+(2x0,5)C)	11,5	78	143	CFROBOT4.006	3x(2x0,14)C (4x0,14) (4x0,22) (2x0,5)	brown/green, blue/violet, grey/pink, red/black white, brown brown/green, violet/yellow, grey/pink, red/black blue, white, brown-green, white-green
CFROBOT4.009	(4x(2x0,25)+(2x0,5)C)	9,5	51	93	CFROBOT4.009	4x(2x0,25) 2x0,5	green/yellow, pink/blue red, black
CFROBOT4.015	(4x(2x0,14)+4x0,5)C	9,0	52	96	CFROBOT4.015	4x(2x0,14) 4x0,5	green/yellow, brown/black, red/orange grey/blue/white-yellow/white-black
CFROBOT4.028 ⁽¹⁶⁾	(2x(2x0,20)+(2x0,38)C)	7,5	47	75	CFROBOT4.028 ⁽¹⁶⁾	2x(2x0,20) (2x0,38)	brown-yellow/brown-grey/green-black/green-red brown-red/brown-blue

(1) Delivery time upon inquiry.

(16) Colour outer jacket: Yellow green (similar to RAL 6018)

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: CFROBOT4.009 – in your desired length (0,5 m steps)
CFROBOT4 chainflex® series .009 Code Measuring system

 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)

... no minimum order quantity ...
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