Control cable | PUR | chainflex® CFROBOT2

For torsion applie PUR outer jacket Shielded Oil-resistant and		 Flame-retardant PVC and halogen-free Notch-resistant Hydrolysis and microbe-resistant 			
ynamic information	flexible twisted	minimum 10 x d			
	fixed	minimum 5 x d			
Temperature	flexible twisted fixed	-25° C up to $+80^{\circ}$ C 50^{\circ}C up to $+80^{\circ}$ C (following DIN EN 50205)			
v max.	twisted	-50°C up to +80°C (following DIN EN 50305) 180°/s			
a max.	twisted	60°/s ²			
Travel distance	Robots and 3D n	Robots and 3D movements, Class 1			
Torsion	Torsion ±180°, w	ith 1m cable length, Class 3			
able structure	Strandad conduc	tor in conscielly bonding resistant version consisting of k			
Conductor		Stranded conductor in especially bending-resistant version consisting of ba copper wires (following DIN EN 60228).			
Core insulation		Mechanically high-quality TPE mixture.			
Core identification	on Black cores with	Black cores with white numbers, one green-yellow core.			
Overall shield		Extremely torsion-resistant tinned wound copper shield. Coverage approx. 85% optical			
Outer jacket		Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapte suit the requirements in e-chains [®] (following DIN EN 50363-10-2)			
	•	e (similar to RAL 5011)			
ectrical information					
Ku Nominal voltage		300/500V (following DIN VDE 0298-3)			
Testing voltage		300V (following UL) 2,000V (following DIN EN 50395)			
operties and approva	als				
UV resistance	High				
Oil resistance	Oil-resistant (follo	Oil-resistant (following DIN EN 50363-10-2), Class 3			
Flame-retardant	-	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flan			
Silicone-free	1992)				
Halogen-free	Following DIN FN	Following DIN EN 60754			

EPLAN download, configurators ► www.igus.eu/CFROBOT2

36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges

Basic requirements Travel distance Oil resistance Torsion

See data sheet for details > www.igus.eu/CFROBOT2 Following NFPA 79-2018, chapter 12.9 Certificate No. RU C-DE.ME77.B.00300/19 In accordance with regulation (EC) No. 1907/2006 (REACH) Following 2011/65/EC (RoHS-II/RoHS-III) According to ISO Class 1. The outer jacket material of this series complies with CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1 Following 2014/35/EU In accordance with the valid regulations of the United Kingdom (as at 08/2021)

Guaranteed service life (details see page 28-29)

ycles*	5 million	
Temperature, from/to [°C]	Torsion max. [°/m]	To
-25/-15	±150	
-15/+70	±180	
+70/+80	±150	
		P

* Higher number of double strokes? Service life calculation online > www.igus.eu/chainflexlife

Typical application areas

Class 6.1.3.3

UL/CSA AWM

🔍 UL verified

NFPA

NFPA

EHE EAC

C E CE

REACH REACH

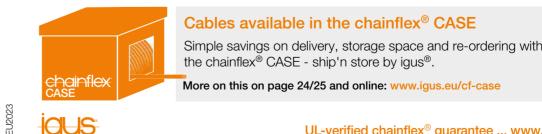
RoHS Lead-free

Cleanroom

- For heaviest duty applications with torsion movements, Class 6
- Especially for robots and 3D movements, Class 1
- Almost unlimited resistance to oil, Class 3
- Torsion ±180°, with 1m cable length, Class 3
- Indoor and outdoor applications, UV-resistant
- Robots, handling, spindle drives

Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFROBOT2.07.04.C	(4G0.75)C	8.0	43	78
CFROBOT2.07.05.C	(5G0.75)C	8.5	51	90
CFROBOT2.07.07.C	(7G0.75)C	10.0	71	120
CFROBOT2.07.12.C	(12G0.75)C	14.0	122	214
CFROBOT2.07.18.C	(18G0.75)C	16.5	185	301

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. G = with green-yellow earth core x = without earth core





chainflex CFR0B0T 2

supi

ble

HENNLICH -**ŽIJEME TECHNIKOU**

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S

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Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"

Torsion max.

[°/m]

±30

±60 ±30

orsion max. [°/m] ±90 ±120 ±90



UL-verified chainflex[®] guarantee ... www.igus.eu/ul-verified

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CFROBOT2