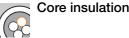
TPE Robot cable, twistable | CFROBOT

- for twistable loads
- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- PVC-free
- UV-resistant
- flame-retardant
- hydrolysis-resistant and microbe-resistant

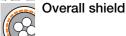
C
c

Conductor

Extremely bend-resistant cable.



Mechanically high-quality TPE mixture.



Extremely torsion resistant tinned braided copper shield.

Coverage approx. 90% optical.

Outer jacket

Low-adhesion mixture on the basis of TPE, especially abrasionresistant and highly flexible, adapted to suit the requirements in

For twistable applications, but also for freely suspended travel

Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following

VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.

According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

Free from silicon which can affect paint adhesion

distances and up to 10 m for gliding applications, Class 6

Colour: Jet black (similar to RAL 9005)

minimum 7,5 x d

minimum 5 x d

-40 °C to +90 °C

± 180°, with 1 m cable length

600/1000 V (following DIN VDE 0250)

4000 V (following DIN VDE 0281-2).

(following PV 3.10.7 - status 1992).

Style 10258 and 21387, 1000 V, 90 °C

Following NFPA 79-2012 chapter 12.9



Bending radius

twistable minimum 10 x d

fixed

180°/s

60°/s²

twistable -35 °C to +90 °C

Temperature fixed

twisted

a max. twisted

Travel distance

Torsion

UV-resistant

Nominal voltage

Testing voltage

oil 6 Flame-retardant

Silicon-free

•-

ROBOT

HELEX" OF

UL/CSA

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

1030 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 6.6.4 (6 maximum load requirements 6 travel distance twisted 4 oil-resistant)

Following CEI 20-35

CE

Clean room

Following 2006/95/EG

Lead free Following 2011/65/EC (RoHS-II)

tested by IPA according to standard 14644-1 Certified according to Nº C-DE.PB49.V.00397

According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D,

œ

FIT EAC Certified according to Nº TC RU C-DE.ME77.B.00964

tHL	
Nowl	C

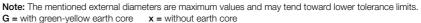
New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ▶ Page 22-25								
Cycles*			5 million	7,5 million	10 million			
Temperature,	v max. [°/s]	a max. [°/s²]	Torsion max.	Torsion max.	Torsion max.			
from/to [°C]	tordiert	tordiert	[°]	[°]	[°]			
-35 / -25			±150	±90	±30			
-15 / +80	180	60	±180	±120	±60			
+80 / +90			±150	±90	±30			

^{*} higher number of cycles possible

Typical application area

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

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	max. [mm]	[kg/km]		
CFROBOT.035	(1 x 10,0)C	10,5	121	197	
CFROBOT.036	(1 x 16,0)C	12,0	183	274	
CFROBOT.037	(1 x 25,0)C	14,5	289	425	
CFROBOT.038	(1 x 35,0)C	15,5	391	534	
CFROBOT.039	(1 x 50,0)C	18,0	546	726	





Order example: CFROBOT.035 – in your desired length (0,5 m steps) CFROBOT chainflex® series .035 Code nominal cross section



price list online www.chainflex.eu/CFROBOT



delivery despatched in 24 hours or today



CFROBOT TPE

± 180°









... no minimum order quantity ... igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu