PUR Bus cable, twistable | CFROBOT8

Image exemplary.

- for twistable loads
- PUR outer jacket
- shielded
- oil-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	According to bus specification
Core stranding	According to bus specification
Core identification	According to bus specification ▶ Schedule delivery program
Intermediate layer	Foil taping over the external layer.
Overall shield	Torsion resistant tinned braided copper shield. Coverage approx. 80% optical.
Outer jacket	Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in energy chains®. 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** -20 °C to +70 °C **fixed** -25 °C to +70 °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

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).
CE	Following 2006/95/EG
Lead free	Following 2002/95/EG (RoHS).
UL	**> 0,25 mm²:** Style 1589 and 20963, 30 V, 80 °C **≤ 0,25 mm²:** Style 1589 and 20236, 30 V, 80 °C
CTP	Certified according to N° C-DE.PB49.V.00396
EAC	Certified according to N° TC RU C-DE.ME77.B.00963

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 / +60	180	60	±180	±120	±60
+60 / +70			±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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFROBOT8.001 (Profibus)	(2x0,35)C	8,0	29	62
CFROBOT8.022 (Can-Bus)	(4x0,5)C	7,0	43	72
CFROBOT8.045 (GigE)	4x(2x0,14)C	8,5	39	69
CFROBOT8.060 (Profinet)	(2x(2x,34))C	8,5	36	70

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

Part No.	Characteristic wave impedance approx. [Ω]	Core group	Colour code
CFROBOT8.001	150	(2x0,35)C	red, green
CFROBOT8.022	120	(4x0,5)C	white, green, brown, yellow (star-quad stranding)
CFROBOT8.045	100	(4x(2x0,14)C)	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
CFROBOT8.060	100	(2x(2x0,34))C	white/blue, yellow/orange

... no minimum order quantity ...

CFROBOT8
PUR
± 180°