Fibre optic cable | PUR | chainflex® CFLK

- POF fibres for heavy duty applications and interference-free transmission
- PUR outer jacket
- Oil and coolant-resistant

Example image

Dynamic information

Bend radius	**e-chain® linear**	minimum 12,5 x d
	flexible	minimum 10 x d
	fixed	minimum 7 x d
Temperature	**e-chain® linear**	-20 °C to +60 °C
	flexible	-40 °C to +60 °C (following DIN EN 60811-504)
	fixed	-50 °C to +60 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	5 m/s
a max.		20 m/s²
Travel distance		Unsupported travel distances and up to 20 m for gliding applications, Class 3

Cable structure

Conductor	980/1000 µm fibre with PE isolation.
Core structure	POF fibre with stranded high-tensile plastic reinforcement.
Core identification	Black core.
Outer jacket	Low-adhesion PUR mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-10-2). Colour: Red lilac (similar to RAL 4001)

Properties and approvals

UV resistance	Medium.
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3.
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992).
Halogen-free	Following DIN EN 60754.
Lead-free	Following 2011/65/EU (RoHS-II).
CE	Following 2014/35/EU.

Class 5.3.3.1

Basic requirements	low	1	2	3	4	**5**	6	7	highest
Travel distance	unsupported	1	2	**3**	4	5	6		≥ 400 m
Oil resistance	none	1	2	3	4	highest			
Torsion	none	**1**	2	3	±180°				

Guaranteed lifetime according to guarantee conditions (Page 22-23)

Double strokes*	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-20/-10	15	16	17
-10/+50	12.5	13.5	14.5
+50/+60	15	16	17

* Higher number of double strokes? Online lifetime calculation: www.igus.eu/chainflexlife

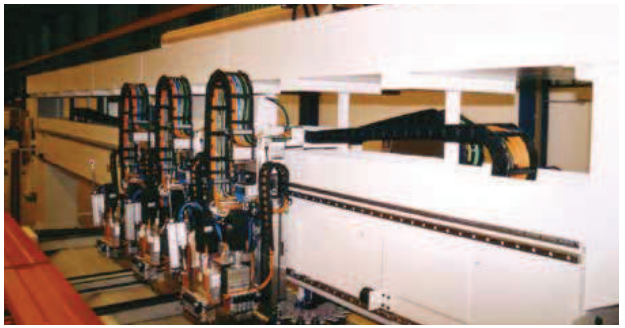
Typical mechanical application areas

- For heavy duty applications
- Maximum EMC protection
- Almost unlimited resistance to oil
- Preferably indoor applications
- Unsupported travel distances and up to 20 m for gliding applications
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment

Part No.	Number of fibres	Fibre diameter [µm]	Outer diameter (d) max. [mm]	Weight [kg/km]
CFLK.L1.01	1	980/1000	6.0	27
CFLK.L1.02	2	980/1000	7.0	31

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

Part No.	Bandwidth [MHz x km] @ 650 nm	Attenuation [dB/km] @ 650 nm	Fibre identification
CFLK.L1.01	2	200	black
CFLK.L1.02	2	200	black



Woodworking machines with e-chains® and chainflex® cables

CFLK
PUR
12.5 x d