Fibre Optic Cable | PUR | chainflex® CFLK

36 10 million Double strokes guaranteed





 POF fibre for heavy duty applications and interference-free transmission

Oil-resistant and coolant-resistant

PUR outer jacket

Dynamic information

Bend radius	e-chain® linear minimum 12.5	
(R	flexible	minimum 10 x d
	fixed	minimum 7 x d
°C Temperature	e-chain [®] linear	-20°C up to +60°C
	flexible	-40°C up to +60°C (

flexible -40°C up to +60°C (following DIN EN 60811-504) fixed -50°C up to +60°C (following DIN EN 50305)

10m/s v max. unsupported gliding 5m/s a max. 20m/s²

Travel distance Unsupported travels and up to 20m for gliding applications, Class 3

Cable structure

Fibre Optic Cable	980/1000 μm fibre with PE isolation.
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POF fibre with stranded high-tensile plastic reinforcement. Core structure

Outer jacket Low-adhesion, halogen-free 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

CFLK

chainflex

igus

Core identification

Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3

▶ Product range table

Silicone-free Free from silicone which can affect paint adhesion (following PV 3.10.7 – status

1992)

Medium

Halogen-free Following DIN EN 60754

UL verified Certificate No. B129699: "igus 36-month chainflex cable guarantee and

service life calculator based on 2 billion test cycles per year" **REACH** In accordance with regulation (EC) No. 1907/2006 (REACH)

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

Following 2014/35/EU

UK UKCA In accordance with the valid regulations of the United Kingdom (as at 08/2021)

EPLAN download, configurators ▶ www.igus.eu/CFLK

Class 5.3.3.1

Guaranteed service life (details see page 28-29)

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? Service life calculation online ▶ www.igus.eu/chainflexlife

Travel distance

Oil resistance

Torsion

Typical application areas

- For heavy-duty applications, Class 5
- Unsupported travels and up to 20m for gliding applications, Class 3
- Almost unlimited resistance to oil, Class 3
- No torsion, Class 1
- Highest EMC safety
- Preferably indoor applications
- Wood/stone processing, packaging industry, feeding, handling, adjusting devices

Part No.	Number of fibres/ Fibre diameter	Outer diameter (d) max. [mm]	Weight [kg/km]
CFLK.L1.01	1x980/1,000	6.0	27
CFLK.L1.02	2x980/1,000	7.0	31

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

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



Cables available in the chainflex® CASE

Simple savings on delivery, storage space and re-ordering with the chainflex® CASE - ship'n store by igus®.

More on this on page 24/25 and online: www.igus.eu/cf-case



Woodworking machines with e-chains® and chainflex® cables











REACH