Torsion

# Fibre Optic Cable | PUR | chainflex® CFLG.LB.PUR







- Graded index glass-fibre cable for heaviest duty applications
- PUR outer jacket
- Metal-free

- Oil-resistant
- Low-temperature-flexible
- PVC and halogen-free
- UV-resistant

### **Dynamic information**

Bend radius	e-chain® linear	minimum 5 x d
(LA	flexible	minimum 4 x d
	fixed	minimum 3 x d
Temperature	e-chain® linear	-25°C up to +80°C
	flexible	-40°C up to +80°C (following DIN EN 60811-504)
	fixed	-50°C up to +80°C (following DIN EN 50305)
v max.	unsupported	10m/s
	alidina	6m/s

gliding

20m/s<sup>2</sup>

a	a max.
	Traval

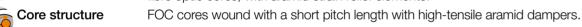
Travel distance

Unsupported travels and up to 100m for gliding applications, Class 5

#### Cable structure

Fibre Optic Cable	50/125 $\mu$ m, 62.5/125 $\mu$ m, 9/125 $\mu$ m especially bending-resistant solid glass
((0)	fibre optic cores, with aramid strain relief elements.

6m/s



Core identification	Orange, blue or yellow with black numbers.
---------------------	--

Overall shield Extremely bending-resistant aramid braid for torsion protection	n.
--	----

Outer jacket	Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapted
(8)	to suit the requirements in e-chains® (following DIN EN 50363-10-2)
	Colour: jet black (similar to RAL 9005)

#### Properties and approvals

Class 6.5.3.1

IIV-	UV resistance	Hign	

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

Offshore MUD-resistant following NEK 606 - status 2016

According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame Flame-retardant

Silicone-free Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)

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"

DNV Type Approval Certificate TAE000048J DNV

REACH REACH In accordance with regulation (EC) No. 1907/2006 (REACH)

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

According to ISO Class 1. The outer jacket material of this series complies with Cleanroom CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1

Following 2014/35/EU

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

#### Guaranteed service life (details see page 28-29)

Double strokes*	5 million	7.5 million	10 million R min. [factor x d]	
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]		
-25/-15	7.5	8.5	9.5	
-15/+70 5		6	7	
+70/+80	7.5	8.5	9.5	
			116	

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

### Typical application areas

- For heaviest duty applications with 5-7.5 x d, Class 6
- Unsupported travels and up to 100 m for gliding applications (horizontal + vertical), Class 5
- Almost unlimited resistance to oil, Class 3
- No torsion. Class 1
- Maximum EMC protection, with high transmission qualities
- Indoor and outdoor applications
- Offshore, ships, storage and retrieval units, processing/packaging machines, fast handling, semiconductor assembly, refrigeration area



chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

igus 36-month

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

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

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









chainflex CFLGLB.PUR

Fibre Optic Cable | PUR | chainflex® CFLG.LB.PUR

Class 6.5.3.1

Basic requirements Travel distance Oil resistance Torsion



LB.PUR





















## igus" chainflex" CFLG.LB.PUR

Example image

Part No.	Number of fibres/ Fibre diameter	Outer diameter (d) max. [mm]	Weight [kg/km]
CFLG.2LB.PUR.62.5/125	2x62.5/125	8.5	62
CFLG.4LB.PUR.62.5/125	4x62.5/125	9.0	68
CFLG.6LB.PUR.62.5/125 11)	6x62.5/125	11.0	96
CFLG.12LB.PUR.62.5/125	12x62.5/125	14.0	150
CFLG.6LB.PUR.50/125	6x50/125	11.0	95
CFLG.12LB.PUR.50/125	12x50/125	14.0	160
CFLG.6LB.PUR.9/125	6x9/125	11.0	95

11) Phase-out model

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

Part No.	Bandwidth [MHz x km] @ 850nm	Attenuation [dB/km] @ 850nm	Bandwidth [MHz x km] @ 1,300nm	Attenuation [dB/km] @ 1,300nm	Fibre identification
CFLG.2LB.PUR.62.5/125	≥ 200	≤ 3.5	≥ 500	≤ 1.5	orange with black numbers
CFLG.4LB.PUR.62.5/125	≥ 200	≤ 3.5	≥ 500	≤ 1.5	orange with black numbers
CFLG.6LB.PUR.62.5/125	≥ 200	≤ 3.5	≥ 500	≤ 1.5	orange with black numbers
CFLG.12LB.PUR.62.5/125	≥ 200	≤ 3.0	≥ 500	≤ 0.7	orange with black numbers
CFLG.6LB.PUR.50/125	≥ 500	≤ 3.0	≥ 500	≤ 1.0	blue with black numbers
CFLG.12LB.PUR.50/125	≥ 200	≤ 3.0	≥ 500	≤ 1.0	blue with black numbers

Part No.	Attenuation [dB/km] @ 1,310nm	Chromatic dispersion [ps/nm/km] @ 1,310nm	Attenuation [dB/km] @ 1,550nm	Chromatic dispersion [ps/nm/km] @ 1,550nm	Fibre identification
CFLG.6LB.PUR.9/125	≤ 0.35	3.5	≤ 0.25	18	vellow with black numbers

Order example: CFLG.4LB.PUR.62.5/125 - to your desired length (0.5m steps)

CFLG.LB.PUR chainflex® series .4 Number of fibres .62.5/125 Fibre diameter

Order online ► www.igus.eu/CFLGLBPUR

Delivery time 24hrs or today.

Delivery time means time until goods are shipped.



### 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









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

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









226

o.z. LIN-TECH HENNLICH s.r.o. Českolipská 9. 412 01 Litoměřice

**Telefon:** +420 416 711 333 E-mail: lin-tech@hennlich.cz

www.hennlich.cz/lin-tech



Guarantee

igus chainfle