Double strokes guaranteed

Graded index glass-fibre cable

for heaviest duty applications

36 10 million

PUR outer jacket

Dynamic information Bend radius

Temperature

v max.

a max.

Cable structure

Travel distance

Fibre Optic Cable

Core structure

Core identification

Overall shield

Outer jacket

Metal-free

5 x d

e-chain® linear minimum 5 x d

flexible

flexible

fixed

gliding

 20m/s^2

e-chain® linear

unsupported

fixed

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

Bend radius, e-chain®

minimum 4 x d

minimum 3 x d

10m/s

6m/s

fibre optic cores, with aramid strain relief elements.

Orange, blue or yellow with black numbers.

Colour: jet black (similar to RAL 9005)

-25°C up to +80°C

Oil-resistant

UV-resistant

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

Extremely bending-resistant aramid braid for torsion protection.

to suit the requirements in e-chains® (following DIN EN 50363-10-2)

50/125 μ m, 62.5/125 μ m, 9/125 μ m especially bending-resistant solid glass

FOC cores wound with a short pitch length with high-tensile aramid dampers.

Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapted

Low-temperature-flexible

-40°C up to +80°C (following DIN EN 60811-504)

-50°C up to +80°C (following DIN EN 50305)

PVC and halogen-free

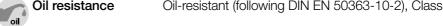
Travel distance, e-chain®

igus 36-month chainfiex cable guarantee and service life calculator based on 2 billion test cycles per year

Class 6.5.3.1

Properties and approvals

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UV resistance	High				



	Web Toolstant Tellowing The Coop Status 2010
Flame-retardant	According to IEC 60332-1-2. Cable Flame, VW-1, ET1, ET2 / Horizontal Flame

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

Halogen-free	Following DIN EN 60754

UL verified	Certificate	No.	B129699:	"igus	36-month	chainflex	cable	guarantee	and
			Talla Talla		1. 90% - 1. 1. 1. 1.				

	DEAGU					(EQ) 1.1	1007/0000 /DE10	
DNYZDMJAF	,							
DNV /	/							

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

Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with
ean- Gloain Gonn	7 toocraining to 100 clade 1. The dater justice material of the defined dempines with

(**E**CE

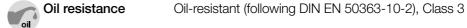
CA

	1 0 /		
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]
-25/-15	7.5	8.5	9.5
-15/+70	5	6	7
+70/+80	7.5	8.5	9.5
k I. Bada a consumada a consta al accidada cataca	10 Oi I'fIIi	- U N	.11.6 -

^{*} Higher number of double strokes? Service life calculation online ▶ www.igus.eu/chainflexlife

- 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
- Indoor and outdoor applications





Offshore	MUD-resistant following NEK 606 - status 2016
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ramo rotardant	7 lood along to 120 00002 1 2, oable 1 lattle, VVV 1,1 1 1,1 12 7 1 lot 20 flat 1 lattle

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

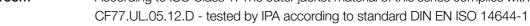
- III verified	Cartificata No	R120600	"iaue	36-month	chainfley	cable quarantee	and

OL verified	Certificate	NO. B129699:	rigus 36-month	chaintiex cable	e guarantee and
Tr.	service life	calculator based	on 2 billion test	cycles per year	II

li de	DNV	Type Approval Certificate TAE000048J
/	DNV	

EACH '\L	 in accordance with regulation (EO) No. 1907/2000 (NE	

O I	Association to 100 Observed. The second standard control of the first co



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)

Typical application areas

- For heaviest duty applications with 5-7.5 x d, Class 6
- Maximum EMC protection, with high transmission qualities
- Offshore, ships, storage and retrieval units, processing/packaging machines, fast handling, semiconductor assembly, refrigeration area

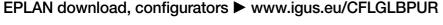






chainflex CFL6,LB,PUR

igus











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

Guarantee

igus" chainflex" CFLG.LB.PUR



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.

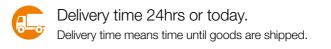
Part No.	Bandwidth [MHz x km] @ 850nm	Attenuation [dB/km] @ 850nm	Bandwidth [MHz x km] @ 1,300nm	[dB/km]	Fibre identification
CFLG.2LB.PUR.62.5/125	≥ 200	≤ 3.5	≥ 500	≤ 1.5	orange with black numbers
CFLG.4LB.PUR.62.5/125	≥ 200	≤ 3.5	≥ 500	≤ 1.5	orange with black numbers
CFLG.6LB.PUR.62.5/125	≥ 200	≤ 3.5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





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















