


















TPE Fibre optic cable (FOC) | CFLG.LB

- Gradient glass-fibre cable for maximum load requirements
- TPE outer jacket
- metal-free
- oil-resistant
- low-temperature-flexible up to -40 °C
- PVC-free/halogen-free
- UV-resistant

	Fibre cable	50/125 µm, 62.5/125 µm special fixed wire elements with aramide strain relief.
	Core stranding	FOC cores stranded with high-tensile aramide dampers with especially short pitch length.
	Core identification	FOC-cores: Orange or blue, with black numerals. Copper cores: black with white numerals
	Overall shield	Extremely bending-resistant aramid braid for torsion protection.
	Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour: Jet black (similar to RAL 9005)
	Bending radius	moved minimum 5-7,5 x d fixed minimum 5 x d
	Temperature	moved -35 °C to +80 °C fixed -40 °C to +80 °C
	v max. unsupported/gliding	10 m/s, 6 m/s
	a max.	20 m/s²
	Travel distance	Freely suspended travel distances and up to 100 m for gliding applications, Class 4
	UV-resistant	High
	Oil	Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.
	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	Halogen-free	Following EN 50267-2-1.
	CE	Following 2006/95/EG
	Lead free	Following 2011/65/EC (RoHS-II)
	Clean room	According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1

 eplan download, configurator ► www.igus.eu/CFLGLB

1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

Class 7.4.4 (7 maximum load requirements 3 travel distance up to 100 m 4 oil-resistant)

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ► Page 22-25

Temperature, from/to [°C]	v max. [m/s]		a max. [m/s²]	Travel distance [m]	5 million	7,5 million	10 million
	unsupported	gliding			R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35 / -25	10	6	20	≤ 100	7,5	7,5	7,5
-25 / +70					5	5	5
+70 / +80					7,5	7,5	7,5
-35 / -25	10	6	20	≤ 100	10	11	12
-25 / +70					7,5	8,5	9,5
+70 / +80					10	11	12

* higher number of double strokes possible

Typical application area

- for maximum load requirements at 5 x d
- maximum EMC protection, with high transmission qualities in terms of glass-specific requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications
- freely suspended travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, semiconductor insertion, refrigerating sector

Delivery program Part No.	Number of fibres	Fibre diameter approx. [µm]	External diameter max. [mm]	Weight [kg/km]
Bending radius 5 x d				
CFLG.2LB.62,5/125	2x62,5/125	8,5	-	57
CFLG.4LB.62,5/125	4x62,5/125	9,0	-	68
New* CFLG.6LB.62,5/125 ⁽¹⁾	6x62,5/125	11,0	-	91
CFLG.2LB.50/125	2x50/125	8,5	-	57
CFLG.4LB.50/125	4x50/125	9,0	-	68
New* CFLG.6LB.50/125 ⁽¹⁾	6x50/125	11,0	-	91
Bending radius 7,5 x d				
CFLG.2LB.2CU.50/125	2x50/125 + 2x0,75	9,5	16	87

(1) Delivery time upon inquiry
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
* New in this catalogue.

Part No.	Bandwidth with 850 nm [MHz x km]	Attenuation with 850 nm [dB/km]	Bandwidth with 1300 nm [MHz x km]	Attenuation with 1300 nm [dB/km]	Fibres identification
CFLG.2LB.62,5/125	≥ 200	≤ 3,0	≥ 500	≤ 0,7	orange with black numbers
CFLG.4LB.62,5/125	≥ 200	≤ 3,0	≥ 500	≤ 0,7	orange with black numbers
CFLG.6LB.62,5/125	≥ 200	≤ 3,0	≥ 500	≤ 0,7	orange with black numbers
CFLG.2LB.50/125	≥ 500	≤ 2,5	≥ 500	≤ 0,7	blue with black numbers
CFLG.4LB.50/125	≥ 500	≤ 2,5	≥ 500	≤ 0,7	blue with black numbers
CFLG.6LB.50/125	≥ 500	≤ 2,5	≥ 500	≤ 0,7	blue with black numbers
CFLG.2LB.2CU.50/125	≥ 500	≤ 2,5	≥ 500	≤ 0,7	black with white numbers

... no minimum order quantity ...

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu

