


















TPE Fibre optic cable (FOC) | CFLG

- Gradient glass-fibre cable for maximum load requirements
- TPE outer jacket
- PVC-free/halogen-free
- low-temperature-flexible to -40 °C
- hydrolysis-resistant and microbe-resistant

Bending radius is reduced by 33%!

	Fibre cable	50/125 µm, 62,5/125 µm fibres in gel-filled hollow cores.
	Stranding	Stranded GRP rods with integrated torsion protection braid in the outer jacket over gel-filled fibre sheath.
	Identification	Fibres ► Schedule delivery program
	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 10 x d fixed minimum 5 x d
	Temperature	moved -40 °C to +70 °C fixed -40 °C to +70 °C
	v max.	10 m/s, 6 m/s
	unsupported/gliding	
	a max.	20 m/s²
	Travel distance	Freely suspended travel distances and up to 400 m and more for gliding applications, Class 5
	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/CFLGGT

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

Class 7.5.4 (7 maximum load requirements 5 travel distance up to 400 m and more 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]
-40 / -30					12,5	13,5	14,5
-30 / +60	10	6	20	> 400	10	11	12
+60 / +70					12,5	13,5	14,5

* higher number of double strokes possible

Typical application area

- for maximum load requirements
- 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 400 m and more for gliding applications
- Ship to shore, crane applications, conveyer technology, low-temperature applications

Test data ► Page 46 or www.igus.eu/test10

... no minimum order quantity ...

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IGUS® CHAINFLEX® CFLG .G



Image exemplary.

Delivery program Part No.	Number of fibres	Fibre diameter approx. [µm]	External diameter max. [mm]	Weight [kg/km]
CFLG.6G.62,5/125.TC	6	62,5/125	10,0	80
CFLG.12G.62,5/125.TC	12	62,5/125	10,0	80
CFLG.6G.50/125.TC	6	50/125	10,0	80
CFLG.12G.50/125.TC	12	50/125	10,0	80
CFLG.12E.9/125.TC	12	9/125	10,0	80

Other number of fibres on request.

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

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]
CFLG.6G.62,5/125.TC	≥ 200	≤ 3,0	≥ 500	≤ 0,7
CFLG.12G.62,5/125.TC	≥ 200	≤ 3,0	≥ 500	≤ 0,7
CFLG.6G.50/125.TC	≥ 500	≤ 2,5	≥ 500	≤ 0,7
CFLG.12G.50/125.TC	≥ 500	≤ 2,5	≥ 500	≤ 0,7

Part No.	Chromatic dispersion with 1310 nm [ps/nm x km]	Attenuation with 1310 nm [dB/km]	Chromatic dispersion with 1550 nm [ps/nm x km]	Attenuation with 1550 nm [dB/km]
CFLG.12E.9/125.TC	3	≤ 0,35	18	≤ 0,23

Part No.	Fibres identification	Hollow core identification
CFLG.6G.62,5/125.TC	ecru, yellow, green, red, violet, blue	orange
CFLG.12G.62,5/125.TC	ecru, yellow, green, red, violet, blue, lightblue, grey, brown, black, orange, pink	orange
CFLG.6G.50/125.TC	ecru, yellow, green, red, violet, blue	blue
CFLG.12G.50/125.TC	ecru, yellow, green, red, violet, blue, lightblue, grey, brown, black, orange, pink	blue
CFLG.12E.9/125.TC	ecru, yellow, green, red, violet, blue, lightblue, grey, brown, black, orange, pink	yellow

 **Order example: CFLG.6G.62,5/125.TC – in your desired length (0,5 m steps)**
CFLG chainflex® series .6G Number of cores .62,5/125 Type of fibres .TC Special identification

 **prices** price list online
www.chainflex.eu/CFLGGT

 **delivery time** despatched in 24 hours or today

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