










PVC Fiber optic cable | CFLG88

- Gradient glass-fiber cable for flexible mechanical load requirements
- PVC outer jacket
- Flame-retardant






Dynamic Information

	Bend radius	E-Chain®	min. 7.5 x d
		flexible	min. 6 x d
		fixed	min. 4 x d
	Temperature	E-Chain®	+41 °F to +158 °F (+5 °C to +70 °C)
		flexible	+23 °F to +158 °F (-5 °C to +70 °C)
		fixed	+5 °F to +158 °F (-15 °C to +70 °C)
	v max.	unsupported	9.84 ft/s (3 m/s)
	a max.		65.6 ft/s ² (20 m/s ²)
	Travel distance		Unsupported travel distances up to 32.81 ft (10 m), Class 1

Cable structure

	Fibers	50/125 µm, 62.5/125 µm special fixed wire elements with aramide strain relief.
	Conductor construction	Optical Fibers cabled with high-tensile aramid dampers and especially short pitch length.
	Color code	Optical Fibers: Orange or blue with black numbers.
	Outer jacket	Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in E-Chains® (following DIN VDE 0281 Part 13). Color: Signal black (similar to RAL 9004)

Properties and approvals

	Flame resistance	According to IEC 60332-1-2
	Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	Lead-free	Following 2011/65/EC (RoHS-II)
	Cleanroom	According to ISO Class 1. Outer jacket material complies with CF240-02-24, tested by IPA according to standard 14644-1
	CE	Following 2014/35/EG

 Configurators ► www.igus.com/CFLG88

Requirements	low	1	2	3	4	5	6	7	highest
Travel distance	unsupported	1	2	3	4	5	6	7	1,312 ft +
Oil-resistance	none	1	2	3	4	highest			
Torsion	none	1	2	3	±180°				

Class 3.1.1.1

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Cycles*	5 million						7.5 million		10 million	
	Temperature, from/to [°F]	v max. [ft/s] unsupported	gliding	a max. [ft/s ²]	Travel distance [ft]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	
+41 / +59					≤ 32.81	10	11	12		
+59 / +140		9.84	6.56	65.62		7.5	8.5	9.5		
+140 / +158						10	11	12		

* Higher number of cycles possible - please ask for your individual calculation.

Typical application areas

- For low duty flexing applications
- Maximum EMC safety
- Preferably indoor applications
- Especially for unsupported travel distances
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment


Part No.	Fiber Count	Fiber Diameter approx. [µm]	Outer diameter max.		Weight	
			in.	mm	lbs/mft	kg/km
New CFLG88-2-62.5/125	2	62.5/125	0.28	7.0	29.6	44
New CFLG88-2-50/125	2	50/125	0.28	7.0	29.6	44

Note: The mentioned outer diameters are maximum values.

Part No.	Bandwidth [MHz x km] @ 850 nm	Bandwidth [MHz x km] @ 1300 nm	Attenuation [dB/km] @ 850 nm	Attenuation [dB/km] @ 1300 nm	Fiber identification
	CFLG88-2-62.5/125	≥ 200	≥ 500	≤ 3.0	≤ 0.7
CFLG88-2-50/125	≥ 500	≥ 500	≤ 2.5	≤ 0.7	blue with black numerals

 Order example: **CFLG88-50/125** – In your desired length
CFLG88 Chainflex® series -50/125 Type of fibers

 Online order ► www.chainflex.com/CFLG88

 Delivery time 24hr or today.
Delivery time means time until shipping of goods.

