










# Fibre optic cable | PVC | chainflex® CFLG88

- Graded index glass-fibre cable for flexing applications
- PVC outer jacket
- Flame retardant






## Dynamic information

	<b>Bend radius</b>	<b>e-chain® linear flexible fixed</b>	minimum 7,5 x d minimum 6 x d minimum 4 x d
	<b>Temperature</b>	<b>e-chain® linear flexible fixed</b>	+5 °C to +70 °C -5 °C to +70 °C (following DIN EN 60811-504) -15 °C to +70 °C (following DIN EN 50305)
	<b>v max.</b>	<b>unsupported</b>	3 m/s
	<b>a max.</b>		20 m/s <sup>2</sup>
	<b>Travel distance</b>		Unsupported travel distances up to 10 m, Class 1

## Cable structure

	<b>Conductor</b>	50/125 µm, 62.5/125 µm especially bending-resistant solid glass fibre optic cores, with aramid strain relief elements.
	<b>Core structure</b>	FOC cores wound with a short pitch length with high-tensile aramide dampers.
	<b>Core identification</b>	FOC cores: Orange or blue with black numerals.
	<b>Outer jacket</b>	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®. Colour: Signal black (similar to RAL 9004)

## Properties and approvals

	<b>Flame retardant</b>	According to IEC 60332-1-2
	<b>Silicone-free</b>	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992).
	<b>Lead-free</b>	Following 2011/65/EU (RoHS-II).
	<b>Cleanroom</b>	According to ISO Class 1. Outer jacket material complies with CF240.02.24, tested by IPA according to standard 14644-1.
	<b>CE</b>	Following 2014/35/EU.

## Class 3.1.1.1

Guaranteed lifetime according to guarantee conditions (Page 22-23)

Double strokes*	1 million	3 million	5 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

\* Higher number of double strokes? Online lifetime calculation: [www.igus.eu/chainflexlife](http://www.igus.eu/chainflexlife)


## Typical mechanical application areas

- For flexing applications
- Maximum EMC protection
- Preferably indoor applications
- Especially for unsupported travels
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment


Part No.	Number of fibres	Fibre diameter	Outer diameter (d) max.	Weight
		[µm]	[mm]	[kg/km]
<b>CFLG88.2.62.5/125</b>	2	62.5/125	7.0	44
<b>CFLG88.2.50/125</b>	2	50/125	7.0	44

Part No.	Bandwidth [MHz x km] @ 850 nm	Bandwidth [MHz x km] @ 1300 nm	Attenuation [dB/km] @ 850 nm	Attenuation [dB/km] @ 1300 nm	Fibre identification
	<b>CFLG88.2.62.5/125</b>	≥ 200	≥ 500	≤ 3.0	≤ 0.7
<b>CFLG88.2.50/125</b>	≥ 500	≥ 500	≤ 2.5	≤ 0.7	blue with black numerals

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

 **Order example: CFLG88.2.62,5/125 – to your desired length (0.5 m steps)**  
CFLG88 chainflex® series 2 Number of fibres .62,5/125 Fibre diameter

 Online order ► [www.chainflex.eu/CFLG88](http://www.chainflex.eu/CFLG88)

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



Example image