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Fibre Optic Cable (Class 3.1.1.1) ● Graded index glass-fibre cable for flexing applications ● PVC outer jacket ● Flame retardant



09/2020



Guarantee

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Dynamic information

Bend radius	e-chain® linear flexible fixed	min. 7.5 x d min. 6 x d min. 4 x d
*C Temperature	e-chain® linear flexible fixed	+5 °C up to +70 °C -5 °C up to +70 °C (following DIN EN 60811-504) -15 °C up to +70 °C (following DIN EN 50305)
v max.	unsupported	3 m/s
a max.	20 m/s ²	
Travel distance	Unsupported travel distances up to 10 m, Class 1	

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

Guaranteed service life according to guarantee conditions

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

Minimum guaranteed service life of the cable under the specified conditions.

The installation of the cable is recommended within the middle temperature range.

chainflex° CFL688

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Technical tables:

Mechanical information	n		
Part No.	Number of fibres/Fibre diameter/ Conductor nominal cross section	Outer diameter (d) max.	Weight
		[mm]	[kg/km]
Multimode (Graded in	ndex)		
CFLG88.2.50/125	2x50/125	7.0	44
CFLG88.2.62.5/125 11) 2x62,5/125	7.0	44
¹¹⁾ Phase-out model			

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



Guarantee

chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



Fibre diameter [µm]	Wave length [nm]	Bandwidth [MHz x km] [MHz x km]	Attenuation [dB/km] [dB/km]
50/125	850	≥ 500	≤ 3,0
50/125	1300	≥ 500	≤ 1,0
62.5/125	850	≥ 200	≤ 3,5
62.5/125	1300	≥ 500	≤ 1,5

(2x62,5/125)

Design table

Fibre diameter: 50/125

Art.-Nr. (Aderanzahl) Core design

CFLG88.2.50/125 (2x50/125)



Fibre diameter: 6	62.5/125
ArtNr. (Aderanzahl)	Core design
CFLG88.2.62.5/125	FIBRE

FIBRE 1

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