

## Festoonfiberflex® loose tube optical cable for data transmission

### Cable type

#### FESTOONFIBERFLEX

Rubber sheathed flexible fibre-optics cable

### Main application

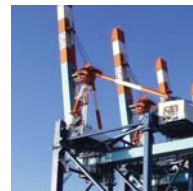
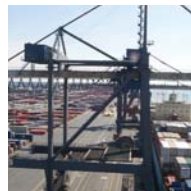
Flexible signal and data transmission cables for use on cranes and material handling equipment, suitable for use on festoon systems, simple reeling  
Fibre-optics for absolute immunity from electrical interferences.

### Construction

Fibre optics:	Core diameter: 50 µm, 62,5 µm, 9µm. Cladding 125 µm, coating 250 µm Main type 62,5/125, the others on request
Tubes:	Basic material PBTF Hollow core with filling compound
Cores identification:	Color code for tubes (pilot directional system) Different fibre colour in case of 2 or 3 fibres per tube
Tubes arrangement:	Six tubes specially laid-up around a central support element - main construction 6 fibre-optics (1 fibre per tube) - on request 12, 18 fibre-optics (2 or 3 fibres per tube)
Antitwisting protection:	Double layer of synthetic yarns of aramidic fibres
Outer sheath:	Black polychloroprene based compound UV resistant, oil and chemical resistant better than 5GM2 compound
Marking:	PALAZZO - FESTOONFIBERFLEX <i>n of fibres &amp; type</i>

### Parameters

Optical	Graded index fibre		Monomode fibre	
	50/125	62,5 /125	E9/125	
Max attenuation at 850 nm	dB/km	2,8	3,0	-
Max attenuation at 1300 nm	dB/km	0,8	0,9	0,4
Max attenuation at 1550 nm	dB/km	-	-	0,3
Bandwidth at 850 / 1300 nm	MHz	≥ 400/800	≥ 160/500	-
Numerical aperture		0,200 ± 0,02	0,275 ± 0,02	-
Chromatic dispersion	ps/(nm x km)	-	-	< 3,5
at 1300 nm		-	-	< 18
at 1550 nm		-	-	
Thermal	Fully flexible operation	- 20 °C to +60 °C		
	Fixed installation	- 40 °C to +80 °C		
Mechanical	Tensile load	1200 N max		
	Minimum bending radii	200 mm		
	Reeling operation	up to 120 m/min (NO RANDOM WOUND REEL)		
	Festoon /cable tender systems	Up to 240 m/min		
Chemical	Resistance to oil	According to VDE / IEC standard		
	Weather resistance	Unrestricted use outdoor and indoor, UV resistant, moisture resistant.		



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Table 1: FESTOONFIBERFLEX

N. of fibers and dimension	Fibre x tubes (n)	Overall diameter		Net weight approx. kg/km	Max. permissible tensile force N
		min. value mm	max. value mm		
6G62,5/125*	1	13,0	15,0	230	1200
6G50/125	1	13,0	15,0	230	1200
6E9/125	1	13,0	15,0	230	1200
12G62,5/125	2	13,0	15,0	230	1200
12G50/125	2	13,0	15,0	230	1200
12E9/125	2	13,0	15,0	230	1200
18G62,5/125	3	13,5	15,5	230	1200
18G50/125	3	13,5	15,5	230	1200
18E9/125	3	13,5	15,5	230	1200

\*main type