

FESTOONFIBERFLEX

Rubber sheathed exible bre-optics cable

Festoonfiberflex loose tube optical cable for data transmission

MAIN APPLICATION

Flexible signal and data trasmission 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 compond

Cores identification: Color code for tubes (pilot directional system)

Different fibre colour in case of 2 o 3 fibres per tube

Tubes arrengement: 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 af aramidic fibres

Outer sheath: Black polychloroprene based compound

UV resistant, oil and chemical resistant better then 5GM2 compound

Marking: U.T.V. CAVI manufactured BY PALAZZO - FESTOONFIBERFLEX n. of fibres & type

PARAMETERS

PARAMEII	Graded in	ndex fibre	Single mode fibre			
	Fiber type		50/125	62,5/125	E9/125	
OPTICAL		dB/km dB/km dB/km MKz n µm ps/(nm x km		3,0 0,9 - ≥ 160/500 0,275 ± 0,02 - - -	- 0,4 0,3 - - 9,2 ± 0,4 < 3,5 < 18	
THERMAL	Fully flexible operation Fixed installation			- 20 °C to - 40 °C to		
MECHANICAL	Tensile load Minimum bending radii Reeling operation Festoon /cable tender system	ms		•	20 m/min IDOM WOUND REEL)	
CHEMICAL	Resistance to oil Weather resistance			Unrestric	g to VDE / IEC standar ted use outdoor and V resistant, moisture	d

resistant.

If the environment reaches - 40 °C, Palazzo can provide a special version of this cable (differentiated from the standard one by the "-K" add to the code name), which is constructed with a special rubber compound that can face this condition. For temperature down to – 40 °C we suggest to use the Panzerflex-K. To allow this cable operating at – 40 °C we use an outer-sheath compound that is less resistant to abrasion and tear so please contact our sales department for more information regarding application.



TABLE 1 - FESTOONFIBERFLEX

Low Voltage Reeling and Festooning

		Overall diameter		NET WEIGHT	Max. permissible
N. OF FIBERS AND DIMENSION	Fibre x tubes (n)	MIN. VALUE MM	MAX. VALUE	APPROX. KG/KM	TENSILE FORCE N
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