

**FOC MT L FIG-8 - Fiber Optic Cable / Multi Tube / Loose Tube Structure / Figure 8**

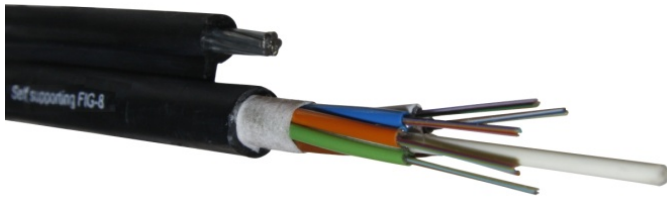
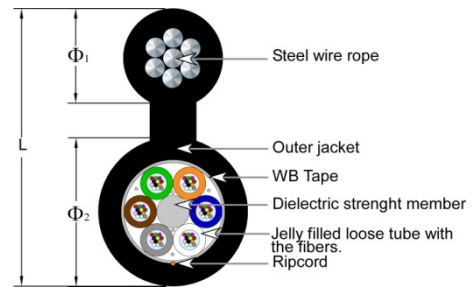


Image: 72 fo cable



**Structure & composition**

Fiber Reinforced Plastic (FRP) central strength member. Loose tubes are stranded around it.  
 Gel filled PBT loose tube with optical fibers.  
 Water blocked cable core through the use of water-swellaible elements or jelly.  
 Outer jacket. HDPE jacket are normally used in this type of cables.  
 Messenger wire consists of 7 twisted strands of 1.4 mm in diameter galvanized steel.

**Description & applications**

Self-support cable for aerial applications suitable for spans up to 150 m.  
 Suitable for harsh environment.  
 High resistance to heavy load conditions (wind and ice).

**Specifications**

		12 to 72	96	144	Standard
Fibers cable no. >		12 to 72	96	144	
PBT tubes no. >		1 to 6	8	12	
Fibers per tube >		12	12	12	
	Units				
Diameter Φ <sub>1</sub>	mm	7,5	7,5	7,5	
Diameter Φ <sub>2</sub>	mm	11	13	15	
Length L	mm	22	24	26	
Nominal weight ( Polyethylene )	Kg / Km	170	205	250	
Minimum bend radius *	mm	220	260	300	IEC 60794-1-E10
Tensile strength *	N	3000	4000	4000	IEC 60794-1-E1
Max. allowable strength during installation	N	6000	8000	8000	IEC 60794-1-E1
Crush resistance *	N / cm		150		IEC 60794-1-E3
Operating temperature range *	°C		-30/75		IEC 60794-1-F1

\* The attenuation in a given wavelength range does not exceed the attenuation of the reference wavelength (λ) by more than 0.05 dB/Km

**Cable options**

For this general datasheet: core filling, outer jacket, number and fiber type must be chosen.

Core	Jacket	Fibers no.	Fiber type
J Jelly	PE Polyethylene	12	9/125 Single mode fiber ITU-T G.652D
D Water-swellaible yarns	LSZH Low Smoke Zero Halogen	48	62.5/125 Multimode fiber TIA/EIA 492AAAA
	V Polyvinylchloride	.....	50/125 Multimode fiber TIA/EIA 492AAAB
	PU Polyurethane	.....	OM3 Multimode fiber TIA/EIA 492AAAC
		144	G655 Non-zero dispersion-shifted ITU-T G.655

**Colour code**

Optical fibers and tubes colour coding according to TIA-598-C :



**Nomenclature / Cable reference**

Complete reference	Main Family	Core	Jacket	Fibers no.	Fiber type
FOC MT L FIG8 D PE 72 OF 9/125	FOC MT L FIG8	D	PE	72	9/125
		Dry core	Polyethylene jacket.		

Fiber Optic Cable Multitube Loose Tube Structure Figure 8.

In order to improve performances, Sigma Network reserves the possibility to modify present datasheet without previous notice.