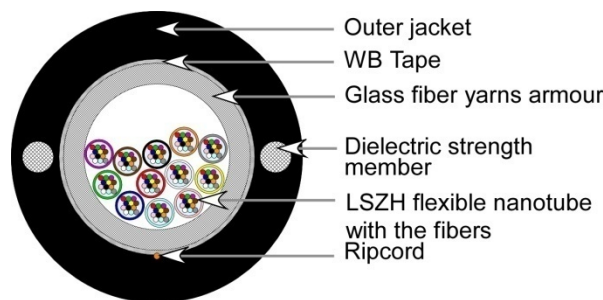


**FOC MT nL GFA+2FRP - Fiber Optic Cable / Multi Tube / nanoLoose Tube Structure / Glass Fiber Yarns+2FRP Armour**



Image: 144 fo cable



**Structure & composition**

LSZH thermoplastic nanotubes with optical fibers ( $\Phi=1,4\text{mm}$  approx). Nanotube filled with Jelly, talc or waterbloking yarns. Glass fiber yarns. Waterblocked "cable core" through the use of water-swellaable elements or jelly. Waterbloking tape. Outer jacket. The material of this jacket is chosen taking into account some factors such as location (indoor / outdoor) or a certain flexibility. Two Non metallic peripheral strength members embedded in the jacket ( $\Phi=1\text{ mm}$ ).

**Description & applications**

Cable specially designed to ease mid-span access, letting to leave the desired nanotubes and the rest in continuity. Suitable for duct, stapled on wall or riser cable installation in buildings. This rigidity due to the rods embedded in the jacket avoids bends during blowing installation and excessive buckling of the cable. High tensile strength and crush resistance. E-glass strength members for rodent resistance.

**Specifications**

Fibers cable no. >	24	36	48	72	96	144	288	Standard		
Tubes no. >	2	3	4	6	8	12	24			
Fibers per tube >	12	12	12	12	12	12	12			
Units										
Nominal outer diameter	mm	6,5	8,6	8,6	10	12,2	12,5	14,5		
Nominal weight ( Polyethylene )	Kg / Km	35	52	54	56	60	95	155		
Nominal weight ( LSZH )	Kg / Km	55	64	66	68	83	125	190		
Minimum bend radius *	mm	15x $\Phi$ cable						IEC 60794-1-E10		
Tensile strength *	N	800	1000	1000	1000	1200	1800	2000	2600	IEC 60794-1-E1
Max. allowable strength during installation	N	1500	1700	1700	1700	2000	2600	2800	3600	IEC 60794-1-E1
Crush resistance *	N / cm	200						IEC 60794-1-E3		
Operating temperature range *	$^{\circ}\text{C}$	-30/+75						IEC 60794-1-F1		

\* The attenuation in a given wavelength range does not exceed the attenuation of the reference wavelength ( $\lambda$ ) 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-swellaable yarns	LSZH Low Smoke Zero Halogen	24	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
		288	G655 Non-zero dispersion-shifted ITU-T G.655

**Colour code**

Optical fibers and tubes colour coding is as follows:



Tubes 13 to 24 are same colour code that the first twelve but with black rings. In tube no. 22 (black) rings are white.

**Nomenclature / Cable reference**

Complete reference	Main Family	Core	Jacket	Fibers no.	Fiber type
FOC MT nL GFA+2FRP DE PE 48 OF 9/125	FOC MT nL GFA+2FRP	D	PE Polyethylene jacket	48	9/125
Dry core and nanoTubes					

Fiber Optic Cable Multi Tube nanoLoose Tube Structure Glass Fiber Yarns+2FRP Armour.

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