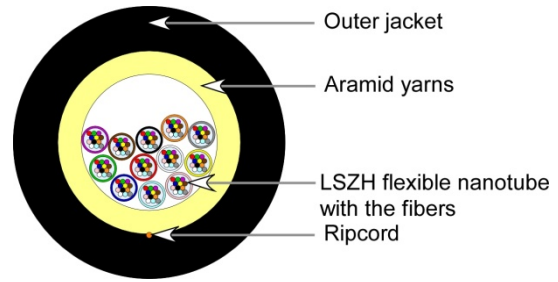


FOC MT nL KA - Fiber Optic Cable / Multi Tube / nanoLoose Tube Structure / Aramid Yarns Armour



Image: 144 fo cable



Structure & composition

LSZH thermoplastic nanotubes with optical fibers ($\Phi=1,4\text{mm}$ approx for tubes with 8 or 12 FO. $\Phi=1,2\text{mm}$ approx for tubes with 4 FO). Nanotube filled with Jelly, talc or waterbloking yarns.
 Aramid yarns
 Waterblocked "cable core" through the use of water-swellaable elements or jelly.
 Outer jacket. The material of this jacket is chosen taking into account some factors such as location (indoor / outdoor) or a certain flexibility.

Description & applications

Cable specially designed to ease mid-span access, letting to leave the desired nanotubes and the rest in continuity easily.
 Suitable in riser cable installation in buildings.
 High flexibility for easier installation in tight bends.
 High tensile strength and crush resistance.

Specifications

	Fibers cable no. >	12	16	24	32	48	72	96	144	Standard
Tubes no. >	3	4	6	4	6	6	8	12	12	
Fibers per tube >	4	4	4	8	8	12	12	12	12	
Units										
Nominal outer diameter	mm	5.9	6.3	7.0	7.0	7.6	8.1	8.4	11.9	
Nominal weight (Polyethylene)	Kg / Km	24	27	33	33	37	43	52	68	
Nominal weight (LSZH)	Kg / Km	32	37	45	45	51	58	67	91	
Minimum bend radius *	mm	15x Φ cable								IEC 60794-1-E10
Tensile strength *	N	500	500	500	500	800	1200	1600	1800	IEC 60794-1-E1
Max. allowable strength during installation	N	1200	1200	1200	1200	1500	2000	2500	2800	IEC 60794-1-E1
Crush resistance *	N / cm	120								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	24	9/125 Single mode fiber ITU-T G.652D
D Water-swellaable yarns	LSZH Low Smoke Zero Halogen	72	62.5/125 Multimode fiber TIA/EIA 492AAAA
T Talc	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 FOC MT nL KA D LSZH 48 OF 9/125	Main Family FOC MT nL KA	Core D	Jacket LSZH LSZH thermoplastic jacket	Fibers no. 48	Fiber type 9/125
Fiber Optic Cable Multi Tube nanoLoose Tube Structure Aramid Yarns Armour					

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