Sigma Network

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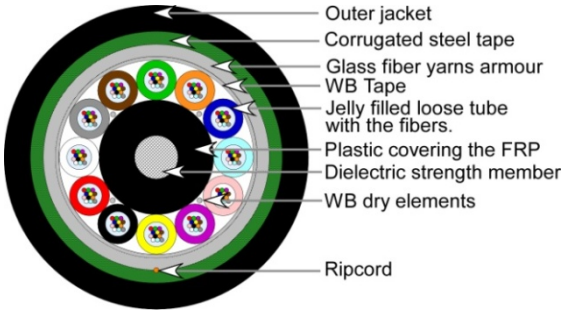
FOC MT L GFSA- Fiber Optic Cable / Multi Tube / Loose Tube Structure / Glass Fiber Yarns and Steel Tape Armour

Image: 144 of cable



Structure & composition

Fibre 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-swellable elements or jelly.
Glass fiber yarns
Copolymer-coated corrugated steel tape armour layer
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

Rigid and rugged cable to be ducted, direct buried, wall mounted and on cable trays applications.
Reduced dimensions for easier installation and better handling. PVC FR or LSZH jacket is used in indoor applications.
The dielectric central member provides tensile strength and anti-buckling protection in order to avoid bends during blowing installation.
High tensile strength and crush resistance.
Glass reinforcement and corrugated steel armouring for rodent protection.
Suitable for harsh environment.

Specifications

Fibers cable no. >		12 to 72	96	144	192,216	288	Standard
PBT tubes no. >		1 a 6	8	12	16,18	24	
Fibers per tube >		12	12	12	12	12	
	Units						
Nominal outer diameter	mm	12,4	13,5	16,4	16,7	18,6	
Nominal weight (Polyethylene)	Kg / Km	142	180	237	251	318	
Nominal weight (LSZH)	Kg / Km	179	214	289	304	378	
Minimum bend radius *	mm			15xΦ cable			IEC 60794-1-E10
Tensile strength *	N	3000	3000	3000	3500	3500	IEC 60794-1-E1
Max. allowable strength during installation	N	4000	4000	4000	4500	4500	IEC 60794-1-E1
Crush resistance *	N / cm			250			IEC 60794-1-E3
Operating temperature range *	ºC			-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-swellable 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
			288	G655	Non-zero dispersion-shifted ITU-T G.655

Colour code

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

1-blue	2-orange	3-green	4-brown	5-grey	6-white	7-red	8-black	9-yellow	10-violet	11-pink	12-turquoise

Tubes 13 to 24 are same colour code that the first twelve but with black rings. In tube no. 20 (black) rings are white.

Nomenclature / Cable reference

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

Fiber Optic Cable Multi Loose Tube Structure Glass Fiber Yarns and Steel Tape Armour.