Sigma Network

REF : FOC MT RIB
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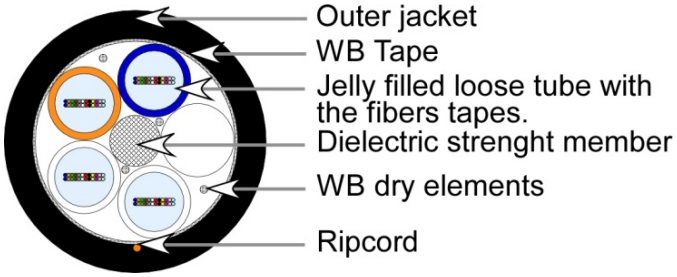
FOC MT RIB - Fiber Optic Cable / Multi Tube / Ribbon Loose Tube Structure



Structure & composition

Fibre Reinforced Plastic (FRP) central strength member. Loose tubes are stranded around it.
Gel filled PBT loose tube with optical ribbons tapes.
Water blocked cable core by using water-swellable 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

Ribbon cable for large number of fibers and quick installation.
Robust and rigid cable to be ducted normally in backbones.
The dielectric Central member provides rigidity in order to avoid bucking during blowing installation and excessive cable bend.
High tensile strength and crush resistance.
Each ribbon tape contains from 4 up to 12 optical fibers. The fibers are accurately aligned to get low attenuation loss in the splice.

Specifications

Fibers cable no. >	Units	96	144	288	576	Standard
Nominal outer diameter	mm	19	20	24	30	
Nominal weight (Polyethylene)	Kg / Km	280	340	525	740	
Minimum bend radius *	mm	15xΦ cable	15xΦ cable	15xΦ cable	15xΦ cable	IEC 60794-1-E10
Tensile strength *	N	3000	3500	4000	4500	IEC 60794-1-E1
Max. allowable strength during installation	N	5000	6000	7000	8000	IEC 60794-1-E1
Crush resistance *	N / cm	250	250	250	250	IEC 60794-1-E3
Operational temperature range *	ºC	-30/75	-30/75	-30/75	-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	96	9/125	Single mode fiber ITU-T G.652D
D Water-swellable yarns	LSZH	Low Smoke Zero Halogen	144	62.5/125	Multimode fiber TIA/EIA 492AAAA
T Waterblocking tape	V	Polyvinylchloride	.....	50/125	Multimode fiber TIA/EIA 492AAAB
	PU	Polyurethane	…..	OM3	Multimode fiber TIA/EIA 492AAAC
			576	G655	Non-zero dispersion-shifted ITU-T G.655

Nomenclature / Cable reference

Complete reference	Main Family	Core	Jacket	Fibers no.	Fiber type
FOC MT RIB D PE 576 OF 9/125	FOC MT RIB	D	PE	576	9/125

PE: Polyethylene jacket
D: Dry core
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