



Fibre Optic Cable

Medium span all- dielectric self-supporting aerial cable, M-TEC standard

Application:

To be strung on poles / Structures in air, supporting its own weight. Strung in air over a long span of up to a Maximum of 250m between supports.

Construction:

GRP, water blocking binder, fiber optics in tubes filled with thixotropic gel, separator tape, water blocking binder, Polyethylene inner sheath, water blocking Kevlar, Polyethylene/Anti-tracking Polyethylene outer sheath.

Fiber Types:

Single-Mode : G652D, G655(C,E,D), G656(A,D,E), G657.(A1,A2,B2) Ultra low loss.

Multi-Mode : OM1(62.5/125), OM2, OM3, OM4.

		(Construction	on							
Number of Fibres (Fibre Count)	2-8	12	24	48	2-8	12	24	48	72	96	
Fibres per Tube	6	6/12	6/12	12	6	6/12	6/12	12	12	12	
Number of Elements	5	5	5	5	6	6	6	6	6	8	
Number of Tubes	1	2/1	4/2	4	1	2/1	4/2	4	6	8	
Number of Fillers	4	3/4	1/3	1	5	4/5	2/4	2	0	0	
Material of Tubes	PBT (Polybutylene Terephthalate)										
			Cable								
Central Strength Member (GFRP)	Glass fiber reinforced plastic (non metallic)										
Filler Material	Natural Polyethylene										
Strength Member Material	Aramid yarn										
		Polyeth	ylene oute	r sheath							
Diameter (mm) Nominal	13.3	13.3	13.3	13.3	14.1	14.1	14.1	14.1	14.1	15.7	
Weight (kg/km) Nominal	129	129	129	129	144	144	144	144	144	180	
Inner and Outer Sheath	Black (No Stripe)										
Material	Polyethylene UV stable										
Radial Thickness		Nominal 1.6mm									
	Anti-track	ing high de	ensity Poly	ethylene o	uter shea	ath					
Diameter (mm) Nominal	14.1	14.1	14.1	14.1	14.9	14.9	14.9	14.9	14.9	16.5	
Weight (kg/km) Nominal	161	161	162	162	174	174	174	174	175	214	
Inner and Outer Sheath	Black (No Stripe)										
Material	Anti-Tracking Polyethylene UV stable										
Radial Thickness				Nomin	al 2.0mm						
		Phy	sical prope	erties							
Allowable Tensile strength											
During Installation					7500	N					
After Installation	4000 N										
Sag at Everyday Stress @ 250m Spans	2.5m										
Bending Radius											
After Installation	10 x Cable Diameter										
During Installation	20 x Cable Diameter										
Crush Resistance					4,000	NI					
(100mm x 100mm Plates for 1min)					4,000	IN					
Impact Test (2Nm/25mm Anvil)					20						
Torsion (± 180 ℃ for 10 cycles)	1 meter										
Water Penetration (24 Hours)		3 meter									
Temperature Range					-10 / +7	0℃					
Filoso islandifications	1. Blue 2.	Orange 3.	Green 4. B	rown 5. Gre	ey 6. Whit	e					
Fibre identification:	7. Red 8.	Black 9. Ye	ellow 10. Vid	olet 11. Pin	k 12. Turc	quoise/Aqu	а				
Loose Tube identification:	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White										
	7. Red 8.	Black 9. Ye	ellow 10. Vid	olet 11. Pin	k 12. Turc	quoise/Aqu	a				
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Product Features

- -The Medium span loose tube Aerial self supporting cable is suitable for installation on spans up to 250m and a vast range of other self supporting applications.
- Polyethylene outer sheath is UV stabilized.

Shipping Length

- Low installation and product cost and fast installation reduces the total project cost.
- -The cable's non metallic construction makes it immune to lightning.
- Two layers of helical ARAMID/ Kevlar strength members enables the cable to withstand (EDS) every day stress and abnormal environmental loading, makes the cable resistant to creep with a high modulus and eliminates torsional stress.
- Excellent optical reliability is ensured by the gel filling in the tubes which provide protection against vibration.



Customer acceptance Signature:

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