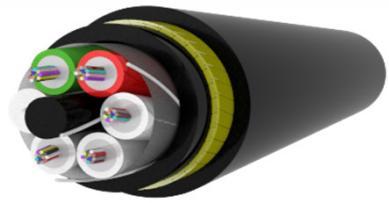
M-TEC



Fiber Optic Cable, ADSS

Long span self supporting aerial cable, anti-tracking : 6 & 8 Element

Application:

To be strung on poles / Structures in air, supporting its own weight over a long span of between 250 - 400m between supports.

Construction:

GRP, water blocking binder, fiber optics in tubes, water blocking binder, water blocking tape, Polyethylene inner sheath, water blocking Aramid, anti-tracking HDPE outer sheath.

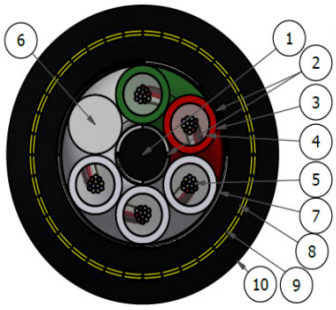
Fiber Types:

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						
Number of Fibres (Fibre Count)	2-8	12	16	24	36	48
Fibres per Tube	2-8	6	8	6	6	8
Number of Elements	6	6	6	6	6	6
Number of Tubes	1	2	2	4	6	6
Number of Fillers	5	4	4	2	0	0
Material of Tubes	PBT (Polybutylene Terephthalate)					
Cable						
Central Strength Member	Glass Fibre Reinforced Plastic (Non Metallic)					
Strength Member Material	Aramid Yarn					
Filler Material	Natural Polyethylene					
Polyethylene bedding / inner sheath						
Diameter (mm) Nominal	10.7	10.7	10.7	10.7	10.7	10.7
Outer Sheath	Black (No Stripe)					
Material	Polyethylene					
Radial Thickness	Nominal 1.6mm					
Anti-tracking HDPE Polyethylene sheath						
Diameter (mm) Nominal	14.9	14.9	14.9	14.9	14.9	14.9
Weight (kg/km) Nominal	180	180	180	180	180	180
Outer Sheath	Black (No Stripe)					
Material	Anti-Tracking Polyethylene					
Radial Thickness	Nominal 2.0mm					
Physical Properties						
Allowable Tensile strength						
During Installation (N)	8 000					
After Installation (N)	5 500					
Ultimate Tensile Strength (UTS) (N)	35000					
Maximum Span Length (m)	400					
Sag at Everyday Stress (EDS)	4.25					
Bending Radius						
After Installation	10 x Cable Diameter					
During Installation	20 x Cable Diameter					
Crush Resistance (100mm x 100mm Plates for 1min)	4 000 N					
Impact Test (2Nm/25mm Anvil)	10					
Torsion (± 180°C for 10 cycles) (m)	1					
Water Penetration (24 Hours) (m)	3					
Temperature Range	-20 / +70°C					
Fibre identification:	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua					
Loose Tube identification option 1:	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua					
Loose Tube identification option 2:	1st Red, intermediate Natural, last Green.					
Shipping Length	2,000m to 6,000m					

Product Features

- # M-TEC fiber fully comply with: ITU-T Specifications for the relevant fibre type used in these cable.
- The long span loose tube aerial self supporting cable is suitable for installation on pole spans up to 400m and a vast range of other self supporting applications.
- Polyethylene is UV Stabilized.
- Low installation, low product cost and fast installation reduces the total project cost.
- The cable's non metallic construction makes it immune to lightning.
- Two layers of contra helical ARAMID Kevlar strength members enables the cable to withstand (EDS) Every Day Stress and abnormal environmental



Item	Description
1	GFRP
2	Water blocking binding yarn
3	Tubes (PBT)
4	Thixotropic gel
5	Fiber
6	PE Filler
7	Binding tape
8	Polyethylene bedding
9	Aramid yarns
10	Polyethylene sheath

Note: No printing on the outer sheath, bedding / inner sheath can be printed.

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