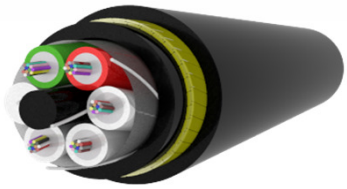
M-TEC



Fiber Optic Cable, ADSS
Long Span Self-Supporting Aerial Cable: 5 Element

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

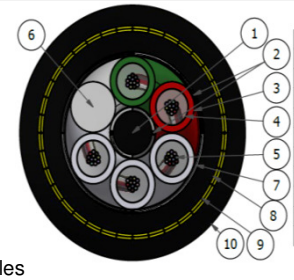
Construction:
GRP, water blocking binder, fiber optics in tubes, water blocking binder, water blocking tape, Polyethylene inner sheath, water blocking Aramid, Polyethylene or Anti-tracking outer sheath.

Fiber Types:
Single-Mode : G652D, G655(C,E,D), G656(A,D,E), G657.(A1,A2,B2)
Multi-Mode : OM1(62.5/125), OM2, OM3, OM4.

Construction					
Number of Fibres (Fibre Count)	2-8	12	16	24	48
Fibres per Tube	2-8	6	8	6	12
Number of Elements	5	5	5	5	5
Number of Tubes	1	2	2	4	4
Number of Fillers	4	3	3	1	1
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 outer sheath					
Diameter (mm) Nominal	13.3	13.3	13.3	13.3	13.3
Weight (kg/km) Nominal	133	133	133	133	133
Outer Sheath	Black (No Stripe)				
Material	Polyethylene				
Radial Thickness	Nominal 1.6mm				
Anti-Tracking Polyethylene outer sheath					
Diameter (mm) Nominal	14.1	14.1	14.1	14.1	14.1
Weight (kg/km) Nominal	162	162	162	162	162
Outer Sheath	Black (No Stripe)				
Material	Anti-Tracking Polyethylene				
Radial Thickness	Nominal 2.0mm				
Physical Properties					
Allowable Tensile strength					
During Installation	8 000N				
After Installation	5 500N				
Ultimate Tensile Strength (UTS)	35 000N				
Maximum Span Length (m)	400				
Sag at Everyday Stress (EDS)	4.25				
Bending Radius					
After Installation	20 x Cable Diameter				
During Installation	10 x Cable Diameter				
Crush Resistance (100mm x 100mm Plates for 1min)	2 000 N				
Impact test (1Nm/2500mm anvil)	2 x 3 impacts 100mm apart				
Torsion (± 180°C for 10 cycles)	1 meter				
Water Penetration (24 Hours)	3 meter maximum				
Temperature Range	-10 / +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:	1st Tube red - intermediate tubes natural and natural filler - last tube 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 loading which makes the cable resistant to creep with a high modulus and eliminates torsional stress.



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

Drawings for illustration purposes only
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