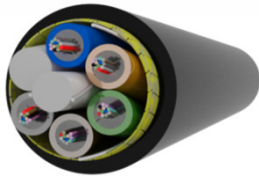


M-TEC



Fibre Optic Cable

ADSS Aerial Cable Short Span, 6 Element

Application:

To be strung on poles / structures in air, supporting its own weight.
Strung in air over a short span of up to a Maximum of 100m between supports.

Construction:

GRP, Fibre Optics in PBT tubes filled with Thixotropic gel, binder, Aramid / Kevlar yarn, Polyethylene or Anti-tracking outer sheath.
Also available in a water blocked version.

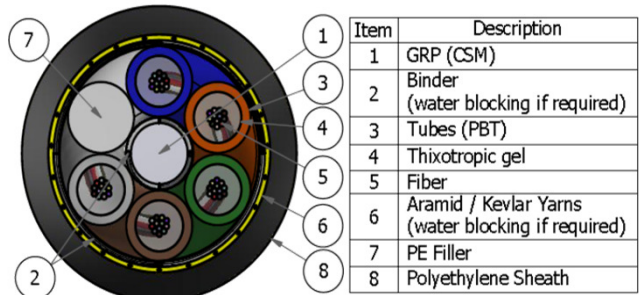
Fiber Types:

Single-mode: G652D, G655(C,E,D), G656(A,D,E), G657.(A,A1,A2,B2) Ultra low loss.
Multi-Mode : OM1, OM2, OM3, OM4.

Construction							
Number of Fibres	12	24	36		48		72
Fibres per Tube	6	6	6	12	8	12	12
Number of Elements	6	6	6	6	6	6	6
Number of Tubes	2	4	6	3	6	4	6
Number of Fillers	4	2	0	3	0	2	0
Material of Tubes	PBT (Polybutylene Terephthalate)						
Cable							
Central strength member	Glass fibre reinforced plastic (non metallic)						
Filler material	Natural colour Polyethylene						
Polyethylene outer sheath							
Diameter (mm) Min.	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Nom.	10.3	10.3	10.3	10.3	10.3	10.3	10.3
Max.	10.6	10.6	10.6	10.6	10.6	10.6	10.6
Weight (kg/km) Nominal	80	80	81		81		81
Outer sheath	Black (No Stripe)						
Material	Polyethylene UV stable						
Radial thickness	Nominal 1.8mm						
Anti-tracking high density Polyethylene outer sheath							
Diameter (mm) Min.	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Nom.	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Max.	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Weight (kg/km) Nominal	90	90	91		91		91
Outer sheath	Black (No Stripe)						
Material	Anti-tracking Polyethylene UV stable						
Radial thickness	Nominal 2.0mm						
Physical properties							
Allowable tensile strength							
During installation	4 000N						
After installation	1 200N						
Sag at everyday stress @ 100m Spans	0.5m						
Maximum span length	100m						
Minimum bending radius							
During installation	20 x Cable Diameter						
After installation	10 x Cable Diameter						
Crush resistance (50mm x 50mm Plates for 1 min)	1 000 N						
Impact test (1Nm/25mm Anvil)	2 x 3 impacts 100mm apart						
Torsion (± 180° for 10 cycles, (1 Cycle clock and counter-clock wise)	1 meter cable sample						
Water penetration (24 Hours)	1 meter water head, 3 meter cable length						
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. Turquoise/Aqua						
Loose tube identification:	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Turquoise/Aqua						
Shipping length	Up to 12 000m						

Product features

- # M-TEC fiber fully comply with ITU-T Specifications for the relevant fibre type used in these cable.
- The all dielectric self support short span loose tube aerial self supporting cable is suitable for installation on pole spans up to 100m and a vast range of other self supporting applications.
- Low installation and product cost and fast installation reduces the total project cost.
- The cable's non metallic construction makes it immune to lightning.
- A layer 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.
- Polyethylene sheath is UV stabilized if black.
- IBIDA, PLP or Powertel to be consulted for accessories for this type of cable.



Revision: R01 23/09/2015

Customer acceptance Signature: _____

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