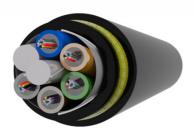
M-TE



Application:

To be strung on poles / structures in air, supporting its own weight over extra long spans of 400m up to 800m between supports.

GRP, water blocking binder, fiber optics in tubes, water blocking binder, water blocking tape, Polyethylene inner sheath, water blocking Aramid, Polyethylene or 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 | 6 | | | |
| Number of Elements | 6 | 6 | 6 | 6 | 6 | 8 | | | |
| Number of Tubes | 1 | 2 | 2 | 4 | 6 | 8 | | | |
| 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 outer sheath | | | | | | | | | |
| Diameter (mm) Nominal | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 16.1 | | | |
| Weight (kg/km) Nominal | 165 | 165 | 165 | 165 | 165 | 200 | | | |
| Outer Sheath | | Black (No Stripe) | | | | | | | |
| Material | Polyethylene UV stable | | | | | | | | |
| Radial Thickness | Nominal 1.6mm | | | | | | | | |
| | Anti-Tracking Polyethylene outer sheath | | | | | | | | |
| Diameter (mm) Nominal | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 16.9 | | | |
| Weight (kg/km) Nominal | 196 | 196 | 196 | 196 | 196 | 236 | | | |
| Outer Sheath | Black (No Stripe) | | | | | | | | |
| Material | Anti-Tracking Polyethylene UV stable | | | | | | | | |
| Radial Thickness | Nominal 2.0mm | | | | | | | | |
| Physical Properties | | | | | | | | | |
| Allowable Tensile strength | | | | | | | | | |
| During Installation (kN) | | *16.2 | | | | | | | |
| After Installation (kN) | **9 | | | | | | | | |
| Ultimate Tensile Strength (UTS) (kN) | | | | 3 | | | | | |
| Span Length (m) | | 400 | 500 | 600 | 700 | 800 | | | |
| Sag at everyday stress (EDS) (m) | | 5.8 | 9.0 | 13.0 | 17.8 | 23.2 | | | |
| Bending radius | | | | | | | | | |
| After Installation | 10 x Cable Diameter | | | | | | | | |
| During Installation | 20 x Cable Diameter | | | | | | | | |
| Impact Test (2Nm/25mm Anvil) | 10 | | | | | | | | |
| Torsion (± 180 °C for 10 cycles) (m) | 1 | | | | | | | | |
| Water Penetration (24 Hours) (m) | 3 | | | | | | | | |
| Temperature Range | | -20 / +70 ℃ | | | | | | | |
| 1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White | | | | | | | | | |
| Fibre identification: | re identification: 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Agua | | | | | | | | |
| | 1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White | | | | | | | | |
| Loose Tube identification: | | 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua | | | | | | | |
| Shipping Length | 2,000m to 6,000m | | | | | | | | |
| Ompping Length | 2,000111 to 0,000111 | | | | | | | | |

Product Features

- The extra long span loose tube Aerial self supporting cable is suitable for installation on pole spans of 400m to 800m and a vast range of other self supporting applications.
- Polyethylene/Anti-Tracking HDPE 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.
- Excellent optical reliability is ensured by the gel filling in the tubes which provide protection against vibration. Note: For cables with 12 fibbers per tube, the attenuation levels during installation may be higher due to the reduced space in the tubes from pressure exerted from the dead end clamps over long spans.
- * Anticipating no ice, but winds up to 125km/h, ** Every Day Stress









Item

2

3

4

5 Fiber

6 Filler

7

8

GRP 1 2

Tubes (PBT)

Thixotropic gel

Binding tape

8 Polyethylene bedding

Description

Water blocking binding yarn