# FTTH Indoor Optic Fibre Cable

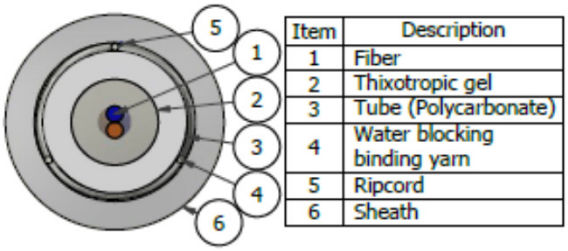
**Application:**
Indoor Fibre in and to the Home, to be blown into ducting.
Blown in only, not suitable for suspended aerial applications

**Construction:**
Fibre Optics in Polycarbonate Tubes filled with Thixotropic gel, water blocking binder yarn, ripcord, LSZH sheath.

**Fiber Types:**
# Single-mode: G657A2 (Ultra low loss)

| Construction | | | | | |
|---|---|---|---|---|---|
| Number of Fibres (Fibre Count) | 2 | 4 | 6 | 8 | 12 |
| Material of Tubes | PC (Polycarbonate) | | | | |
| Tube diameter OD (mm) Nominal | 2.00 ± 0.10 | | | | 2.50 ± 0.10 |
| Radial thickness | Nominal 0.35mm | | | | |
| **Cable** | | | | | |
| Diameter (mm) | Nominal - 3.2mm<br>Maximum - 3.3mm | | | | Nom. - 3.7mm<br>Max. - 3.8mm |
| Weight (kg/km) | 9.4 | 9.4 | 9.5 | 9.5 | 11.8 |
| Outer Sheath | White | | | | |
| Material | Low Smoke Zero Halogen (LSZH) | | | | |
| Radial Thickness | Nominal 0.5mm | | | | |
| **Physical Properties** | | | | | |
| Tensile Strength | 125 N | | | | |
| Bending Radius | | | | | |
| After Installation | 20 x Cable Diameter | | | | |
| During Installation | 10 x Cable Diameter | | | | |
| Crush Resistance<br>(50mm x 50mm Plates for 1min) | 100 N | | | | |
| Impact Test (2Nm/25mm Anvil) | 2 x 3 impacts 100mm apart | | | | |
| Water Penetration (24 Hours) | 3 meter | | | | |
| Temperature Range | -20 / +70°C | | | | |
| Fibre identification: | 1. Blue 2. Orange | 1. Blue 2. Orange<br>3. Green 4. Brown | 1. Blue 2. Orange<br>3. Green 4. Brown<br>5. Grey 6. White | 1. Blue 2. Orange<br>3. Green 4. Brown<br>5. Grey 6. White<br>7. Red 8. Black | 1. Blue 2. Orange<br>3. Green 4. Brown<br>5. Grey 6. White<br>7. Red 8. Black<br>9. Yellow 10. Violet<br>11. Pink 12. Aqua |
| 1 x Loose Tube identification: | Natural | | | | |
| Shipping Length | 500m - 2,000m | | | | |
| Product Features | | | | | |

- # M-TEC fiber fully comply with: ITU-T Specifications for the relevant fibre type used in these cable.
-The Blown in Uni-Tube cable is designed for blown duct or strung applications.
-The cable's non metallic construction makes it immune to Lightning.
- Excellent optical reliability is ensured by the Thixotropic gel filling n the tube which provide protection against vibration.
- IBIDA, PLP or Powertel to be consulted for accessories for this type of cable.




| Item | Description |
|---|---|
| 1 | Fiber |
| 2 | Thixotropic gel |
| 3 | Tube (Polycarbonate) |
| 4 | Water blocking binding yarn |
| 5 | Ripcord |
| 6 | Sheath |

**Customer acceptance Signature**: _____

Revision: R01 10/08/2021