

M-TEC



Fiber Optic Multi-purpose Cable (FTTH)

Blown in or suspended Uni-Tube, single mode.
(Blown in to duct or strung in air), (not hauled)

Application:

To be blown into ducting, or strung over a maximum span length of up to 50m.
Fiber to the Home

Construction:

Fibre optics in Polycarbonate tubes filled with Thixotropic gel, water blocking glass yarn, ripcord, LSHFFR, water blocking glass yarn, ripcord, HDPE sheath.

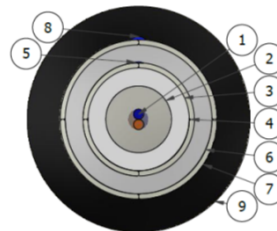
Fibre Types:

Single-mode: G657 A1 & G657 A2

Construction					
Number of Fibres (Fiber Count)	2	4	6	8	12
Material of Tubes	Polycarbonate				
Tube diameter OD (mm) Nominal	2.00 ± 0.10			2.50 ± 0.10	
Radial thickness	Nominal 0.35mm				
Cable inner sheath LSHFFR					
Diameter (mm)	Nominal 2.9mm Maximum 3.0mm			Nom. 3.4mm Max. 3.5mm	
Material	Low smoke halogen free flame retardant, white				
Radial Thickness	Nominal 0.5mm				
Allowable Tension After installation	140 N				
Cable outer sheath HDPE					
Diameter (mm)	Nominal 4.4mm Maximum 4.7mm			Nom. 4.9mm Max. 5.2mm	
Weight (kg/km)	18.9			22.0	
Material	High Density Polyethylene, black UV resistant (No Stripe) / Coloured UV resistant				
Radial Thickness	Nominal 0.5mm				
Allowable Tension During installation	400 N				
Allowable Tension After installation	200 N				
Physical Properties					
Bending Radius After Installation	20 x Cable Diameter				
Bending Radius During Installation	10 x Cable Diameter				
Crush Resistance (50mm x 50mm Plates for 1min)	100 N				
Impact Test (1Nm/300mm Anvil)	2 x 3 impacts 100mm apart				
Water Penetration (24 Hours)	3 meter				
Temperature Range	-10 / +70°C				
Fibre identification:	1. Blue 2. Orange	1. Blue 2. Orange 3. Green 4. Brown	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 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 gel filling in the tube which provide protection against vibration.
- IBIDA, PLP or Powertel to be consulted for accessories for this type of cable.



Item	Description
1	Optic fiber
2	Thixotropic gel
3	Polycarbonate tube
4	Glass yarn
5	Ripcord
6	LSHFFR sheath white
7	Glass yarn
8	Ripcord
9	Polyethylene sheath black

Customer acceptance Signature: _____

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