

Fiber Optic Cable

Heavy Duty Duct, Glass yarn, Single-mode, multi-mode or composite

Application:

Blown or hauled into cable ducts and clamped to cable trays / racks.

Construction:

GRP, water blocking binders, fibre optics in PBT tubes filled with Thixotropic gel, water blocking glass yarn, Polyethylene or LSZH sheath.

Fiber Types:

Single-Mode: G652D, G655(C,D,E), G656(A,D,E),
G657.(A,A1,A2,B2) Ultra low loss.

Multi-Mode: OM1(62.5/125), OM2, OM3, OM4

Construction

Number of fibres (Fiber count)	4	8	12	24	48	72	96	144
Fibres per tube	4	8	6/12	6/12	12	12	12	12
Number of elements	4	4	4	4	4	6	8	12
Number of tubes	1	1	2/1	4/2	4	6	8	12
Number of fillers	3	3	2/3	0/2	0	0	0	0
Material of tubes	PBT (Polybutylene Terephthalate)							
Radial thickness	Nominal 0.35mm							

Cable

Central Strength Member	Glass Reinforced Plastic
Peripheral strength member	Water blocking Glass yarn
Filler material	Natural Polyethylene

Polyethylene Sheath

Diameter (mm) Nominal	9.4	9.4	9.4	9.4	9.4	10.8	12.4	15.4
Weight (kg/km) Nominal	66	66	66	66	66	91	118	189
Outer Sheath	(Black, UV Stabilized) or Coloured (No Stripe)							
Material	Polyethylene							
Radial thickness	Nominal 1.6mm							

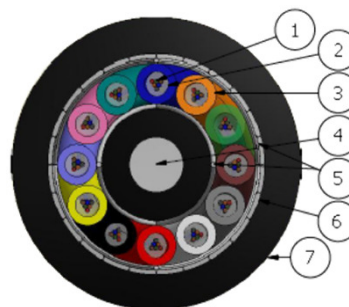
Physical Properties

Allowable tension								
During installation	1200	1200	1200	1200	1200	1200	1393	2220
After installation	600	600	600	600	600	600	600	600
Bending radius								
After installation	10 x Cable diameter							
During installation	20 x Cable diameter							
Crush resistance	2 500 N							
(50mm x 50mm Plates for 1min)								
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 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	(Single Mode) 4,000m to 6,000m
Product Features	

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

NB: Glass Yarn is M-TEC Standard
Aramid Yarn is optional



Item	Description
1	Fiber Optic
2	Thixotropic Gel
3	PBT Tubes
4	Glass Reinforced Plastic
5	Water Blocking binder
6	Water Blocking Aramid/Glass Yarn
7	PE Outer Sheath

Customer acceptance Signature: _____

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