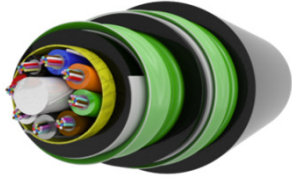


# M-TEC



## Fibre Optic Cable

Mineshaft, Double CST armoured, Single / Multi Mode.

### Application:

To be blown or hauled into ducting, cable trays vertically clamped.

### Construction:

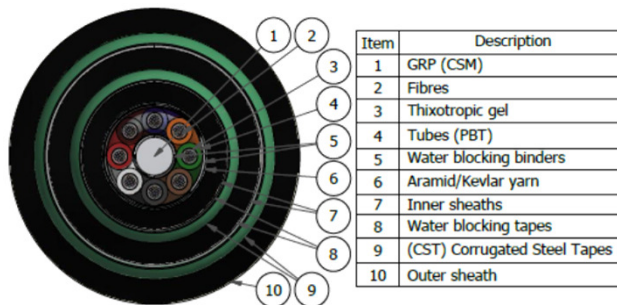
GRP, Fiber Optics in PBT tubes filled with Thixotropic gel, water blocking binders, water blocking Aramid yarn, HFFR/LSZH inner sheaths, double sided water blocking tapes, 2 x coated corrugated steel tape, HFFR/LSZH outer sheath.

### Fiber Types:

# Single-Mode: G652D, G655(C,E,D), G656(A,D,E), G657.(A,A1,A2,B2)  
# Multi-Mode: OM1(62.5/125), OM2, OM3, OM4.

Construction					
Number of fibres (Fibre count)	6	12	24	36	48
Number of elements	4	4	4	4	4
Number of tubes	1	2	4	3	4
Number of fillers	3	2	0	1	0
Fibres per tube	6	6	6	12	12
Material of tubes	PBT (Polybutylene Terephthalate)				
Tube diameter (mm)	2.20 ± 0.1				
CST armoring (Corrugated copolymer Steel Tape)					
Radial thickness	Nominal 0.25mm				
Cable					
Diameter (mm)	22	22	22	22	22
Weight (kg/km)	501	501	501	501	501
Central strength member	(GRP) Glass Reinforced Plastic				
Peripheral strength member	Aramid yarn water blocking				
Filler material	Polyethylene Natural				
Outer sheath	Black				
Material	LSZH (Low Smoke Zero Halogen, EVA)				
Radial thickness	Nominal 1.8 - 2.0mm				
Physical Properties					
Allowable Tension During installation (30% FS)	8 000N				
Allowable Tension After installation (0% FS)	3 500N				
Bending Radius (4 turns x 10 Cycles)	12 x Cable Diameter				
Crush Resistance (100mm x 100mm Plates for 1min)	6 000 N				
Impact Test (2Nm / 25mm Anvil)	2 x 3 impacts 100mm apart				
Water Penetration (24 Hours)	3 meter				
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	1000 - 4000m				
Product Features					

- The double corrugated plastic clad steel tape armoured cable is suitably protected against rodent attack and will provide protection for applications where the cable is exposed to abnormal crushing or impact forces during installation or service.
- CST Provides excellent moisture barrier and the cable is further protected against moisture ingress by a water blocking tape under the CST.
- Longitudinal CST tape prevents cable spiralling, twisting and kinking during installation.
- This cable is designed for long vertical drops clamped to cable trays.
- The Low Smoke Zero Halogen sheath and CST ensures compliance with cable installation in confined spaces.



Revision: R01 13/11/2020

Customer acceptance Signature: \_\_\_\_\_

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