



METAL - FREE OPTICAL FIBRE CABLE



DESCRIPTION

These cables are designed for duct application and offer termite & insect resistance properties; excellent transmission performance & protection to fibre in a variety of field environment

APPLICATION

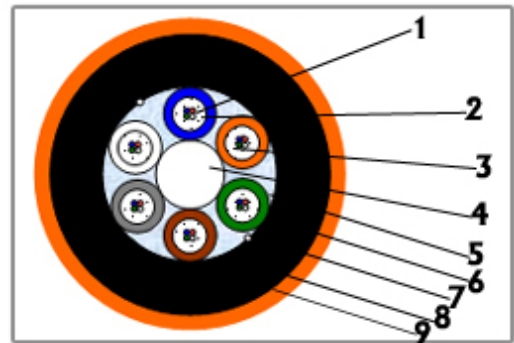
- Lightning prone areas
- Vicinity of power line
- Long haul communication systems
- Local area networks

FEATURES

- All dielectric
- S - Z stranded
- Light weight & miniaturised
- Standard fibre count : 2 - 96

CABLE CROSS SECTION

1. PRIMARY COATED OPTICAL FIBRE Single mode/multimode
2. TUBE FILLING COMPOUND Thixotropic gel
3. LOOSE TUBE Polyamide/PBTP or other acceptable thermoplastic material
4. DUMMY/FILLER (if required) Polyethylene
5. CENTRAL STRENGTH MEMBER Fibre reinforced plastic rod
6. WATER BLOCKING MEDIA Water Swellable Tape/Suitable Water Blocking Gel
7. RIP CORDS (Aramid yarn/Glass Fibre)
8. INNER SHEATH Black polyethylene
9. OUTER SHEATH Nylon orange





MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Tensile Force (IEC 60794-1-E1)	
During installation	1.3 x W
Permanent	0.6 x W
Bending radius (IEC 607494-1-E11)	
Temporary, unloaded	15 D
Permanent, during installation	20 D
Repeated bending (EIA-455-104)	30 times, with weight of 50N
Torsion resistance (IEC 60794-1-E7)	10 cycle with load of 400 N
Crush resistance (IEC 60794-1-E3)	2000 N (100 x 100 mm)
Impact resistance (IEC 60794-1-E4)	25 N-m
Kink resistance (IEC 60794-1-E 10)	20 D
Temperature range (IEC 60794-1-F1)	
Operation	-30° to + 70°C
Storage	-30° to + 70°C
Installation	-10° to + 50°C

W = Weight in Kg of 1 Km. cable

D = Diameter of cable in mm.

COLOUR CODING

Colour of Fibres	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose & Natural Last fibre in tube will be Natural
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DELIVERY INFORMATION

	12 F	24F	48F	96F
Cable weight (nominal) – Kg/Km	92	104	35	180
Cable diameter (nominal) – mm	10.7	11.5	13.5	14.9
Supplied length – Kms		2 ,4 & 6		

Note :

1. Fibre in cable can comply to G651/G652/G652D/G655 or as desired. Properties of cabled fibre available on request.
2. The given cable cross section and characteristics will change as per specification desired by the customers.

IS/ ISO 9001-2000

IS/ ISO 14001

