



SELF SUPPORTING METAL FREE AERIAL OPTICAL FIBRE CABLE



DESCRIPTION

These cables are designed for aerial installation and can withstand ice, wind & other harsh field environment.

APPLICATION

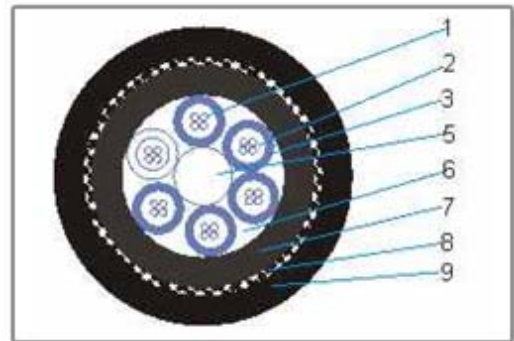
- Lightning prone areas
- Aerial application
- Vicinity of power line
- Long haul communications
- Hilly terrain

FEATURES

- All dielectric self supporting construction.
- Round construction for minimum wind drag & ice build up
- S-Z Stranded Standard fibre count : 2 – 48

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. Inner Sheath – Black polyethylene.
8. Peripheral Reinforcement – Aramid yarn / Glass Fibre.
9. Outer Sheath – Black polyethylene.



IS/ ISO 9001-2000

IS/ ISO 14001





MECHANICAL & ENVIRONMENTAL CHARACTERISTICS.

Span Length	100 Mtrs
Sag	
During Installation	2.0 Mtrs.
With 1 Kg per Mtr ice load	2.7 Mtrs.
With 75 Kms per hr wind load	3.5 Mtrs.
With Combined wind & ice load	4.0 Mtrs.
Tensile Force (IEC 60794-1-E1)	
During Installation	6 x W
Permanent	3 x W
Bending Radius (IEC 60794-1-E11)	
Temporary, unloaded	15 D
Permanent, during installation	20 D
Repeated Bending (EIA 455-104)	30 times, with weight 50 N
Torsion Resistance (IEC 60794-1-E7)	10 cycles (+/- 180°) with load of 400N
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-E10)	20 D
Temperature Range (IEC 60794-1-F1)	
Operation	-30° to + 70° C
Storage	-30° to + 70° C
Installation	-10° to + 50° C
Water Penetration (IEC 60794-1-F5)	Pass
W = Weight in kg of 1 Km. Cable	D = Diameter of cable in mm

COLOUR CODING

Colour of Fibres in a tube	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose & Natural Last fibre in a tube will be Natural
Identification method	Market & Tracer Blue tube/filler (marker) Orange tube/filler (tracer)
Other elements	Natural and/or Black

DELIVERY INFORMATION

	Upto 12 F	Upto 24 F
Cable weight (nominal) – Kg/ Km	225	225
Cable diameter (nominal) – mm	17.1	17.1
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

