



HIGH COUNT METAL-FREE OPTICAL FIBRE CABLE (RIBBON TYPE)



DESCRIPTION

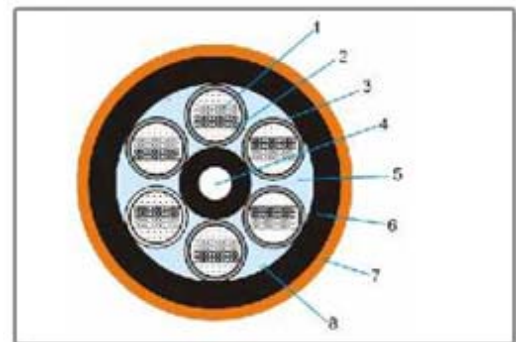
These cables are high fibre density cables designed for duct application and offer termite & insect resistance properties; excellent transmission performance & protection to fibre in a variety of field environment.

APPLICATION

- Lighting prone areas
- Vicinity of power line
- Long haul communication systems
- Local Area networks
- Less time per fibre installation

FEATURES

- All dielectric
 - S-Z stranded
 - Standard fibre count 48 - 288
1. Optical Fibre (12 F Ribbon) - Single mode/multimode
 2. Tube Filling Compound - Thixotropic gel
 3. Loose tube - Polyamide/PBTP or other acceptable thermoplastic material.
 4. Central Strength Member - Fibre reinforced plastic rod
 5. Water Blocking Media - Water Swellable Tape/Suitable Water Blocking Gel
 6. Inner Sheath - Black Polyethylene.
 7. Outer Sheath - Nylon Orange
 8. Rip Cord



MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

IS/ ISO 9001-2000

IS/ ISO 14001





Tensile force (IEC 60794-1-E1)	
During installation	2700 N
Permanent	1000N
Bending radius (IEC607494-1-E11)	
Temporary, unloaded	15D
Permanent, during installation	20D
Repeated bending (EI-455-104)	30 times, with weight of 50N
Torsion resistance (IEC 60794-1-E7)	10 cycle with load of 400N
Crush resistance (IEC 60794-1-E3)	2000N (100 x 100mm)
Impact resistance (IEC 60794-1-E4)	25N-m
Kink resistance (IEC 60794-1-E 10)	20D
Temperature range (IEC 60794-1-F1)	
Operation	-30° to +70°C
Storage	-30° to +70°C
Installation	-20° to +50°C
Water Penetration (IEC 60794-1-F5)	Pass
D = Diameter of cable in mm.	

COLOUR CODING

Colour of fibre in Ribbon	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yello, Violet, Rose & Aqua
Indentification method	Each ribbon shall be marked as X RIBBON X for indentification of ribbon with loose tubes where X is 1,2,3 & 4
Other elements	Natural and/ Black

DELIVERY INFORMATION

	Upto 48 F	Upto 96F	Upto 144 F	Upto 288 F
Number of Ribbons per tube	1-2	1-2	2	4
Cable weight (nominal) – Kg / Km.	280	280	340	500
Cable diameter (nominal) – mm	19.0	19.0	20.5	24
Supplied lengths	2 & 4			

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.

