



MICRO DUCT OPTICAL CABLE FIBRE



DESCRIPTION

These cables are designed for micro duct application having low weight, small volume and high flexibility. Available in central loose tube design upto 24 Fibres and upto 72 Fibres in multi loose tube construction. It also offer termite & insect resistance properties; excellent transmission performance & protection to fibre in a variety of field environment.

APPLICATION

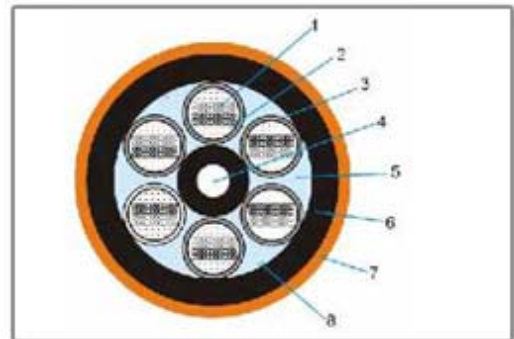
- Micro Duct
- Lightning prone areas
- Vicinity of power line
- Local area networks

FEATURES

- All dielectric
- Central Tube or S-Z stranded
- Light weight & miniaturized
- Standard fibre count : 2 - 72

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. Central Strength Member - Fibre reinforced plastic rod.
5. Core Wrapping - Water Swellable / Polyester Tape.
6. Outer Sheath - Nylon Orange



IS/ ISO 9001-2000

IS/ ISO 14001





MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Tensile force (IEC 60794-1-E1)	
During installation	1.3 x W
Permanent	0.6 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 of 50N
Torsion resistance (IEC 60794-1-E7)	10 cycle with load of 100N
Crush resistance (IEC 60794-1-E3)	1000N (100 x 100 mm)
Impact resistance (IEC 60794-1-E4)	5N-m
Kink resistance (IEC 60794-1-E10)	20 D
Temperature range (IEC 60794-1-F1)	
Operation	-30° to + 70°
Storage	-30° to + 70°
Installation	-10° to + 50°
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
Colour of loose tubes (In case of multi loose tube Design)	Blue, Orange, Green, Brown, Slate & White
Other elements	Natural and/Black

DELIVERY INFORMATION

	Central tube construction		Multi loose tube construction
	Upto 12 F	Upto 12 – 24 F	Upto 48 – 72 F
Cable Weight (nominal) Kg/Km.	11	24	40
Cable Diameter (nominal) mm	3.8	5.6	6.9
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.

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