

Singal-tube Unarmoured Cable (2 - 48F)

Central Loose Tube Design
Suitable For Duct Installation



Water blocked



Outdoor



Underground



Metro

Applications

- Inside Duct pulled or blown
- For CATV application, aerial application along with messenger wire

Cable Construction

- Up to 48 enhance low water peak single mode fibres in full compliance with ITU-T-G.652.D
- Metallic and anti-buckling element Steel rod used as Peripheral Strength Member.
- Loose buffer tubes fully filled and Centrally placed in the cable
- UV Stablized PE outer sheath, black

Special Features

- Lighter weight cable for faster and easier installation

Mechanical Characteristics

Temperature Range (IEC 60794-1-2-F1)

Laying and Installation	-10° to +50° C
Operation	-30° to +70° C
Transport and Storage	-30° to +70° C

Cable Bending Radius (IEC 60794-1-2-E11A)

During Installation	20 x D, D = Cable D
Installed	15 x D, D = Cable D
Repeated Bending (IEC 60794-1-2-E6)	30 Cycle, r= 20 X D, 10 Kg Load, D = Cable D

Tensile Force (IEC 60794-1-2-E1)

During Installation	1500 N
Installed	1000 N
Torsion Resistance (IEC 60794-1-2-E7)	10 Cycle (± 360°) 10 Kg Weight, L= 2 Mtr

Crush Resistance (IEC 60794-1-2-E3) 1000 N (100 X 100 mm) for 600 sec

Impact Resistance (IEC 60794-1-2-E4) Height 100 mm, Weight = 3 Kg, 3 Nos

Kink Resistance (IEC 60794-1-2-E10) 10 x D, D = Cable D
Water Penetration (IEC 60794-1-2-F5B) 1 Mtr Water Head, 3 Meter Cable Sample, 24 Hours

Variants*

*Cable can be supplied with singlemode (ITU-T G652, G655, G656, G657)

& Multimode (50µ, 62.5µ & OM3) or combination of these

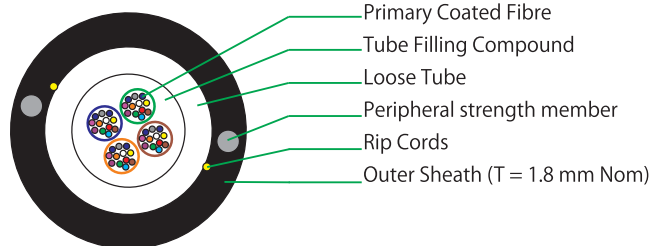
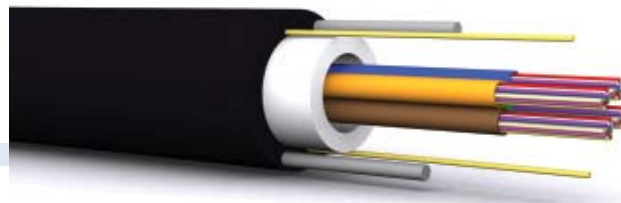
*Cable construction can be dry core or jelly filled

*Outer jacket can be of PVC, Nylon, LSZH, HDPE

*Strength member can be Steel or FRP

*Rip cord can be of aramid or polyester

*These are general characteristics, customized designs are available as per requirements



UNITUBE DESIGN

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)	
			Installation	Operating	Temporary	Permanent
UPTO 12F	6.5	45	1500	1000	20D	15D
UPTO 24F	8	65	1500	1000	20D	15D
UPTO 48F	9.5	85	1500	1000	20D	15D

Drum Length

2000/ 3000/ 4000 meters ± 5%

Cable Sheath Marking

Cable sheath shall be marked in white colour with hot foil indentation method. Marking details can be customized. Below mentioned details are generally marked on the cable sheath.

Telephone Symbol, Laser Symbol, Number of Fibres, Type of Fibre (G 652 D), Unarm, Month & Year of Manufacturing, Manufacturer's Name, Customer Name, Sequential Meter Marking & Drum Number

Cable Drum Packing

Every length will be delivered on non-returnable wooden drums. Generally the cable drum flange will be marked with following: These details can also be customised.

- Arrow showing rolling direction of the drum.
- Country of origin.
- Manufacturer's name/ Customised
- Number of fibres.
- Nominal cable length in meters
- Net and gross weight.
- Drum number
- Caution - Optical Fibre Cable Not to be Laid Flat
- Customer's name and destination

Both ends of the cable shall be sealed to prevent the ingress of moisture during transportation and storage, physical damage.