

Multi-tube Single Sheath Armoured Cable (2 - 48F)

Multi Loose Tube Design

Suitable For Duct & Direct Burial Installation



Water blocked



Rodent resistant



Outdoor



Underground



Metro



Impact resistant

Applications

- Direct burial / Inside duct
- In areas where high mechanical load is required
- In areas where rodent menace is there

Cable Construction

- Up to 144 enhance low water peak single mode fibres in full compliance with ITU-T-G.652.D
- Non metallic and anti-buckling element FRP rod used as Central Strength Member.
- Loose buffer tubes fully filled
- Loose buffer tubes S-Z Stranded
- Cable core fully filled with Thixotropic jelly
- Glass yarn used as peripheral strength member
- Cable core is wrapped with polyester tape
- Cable core is also wrapped with water swellable tape to make fully water blocked
- Electrolytic chrome plated & Corrugated steel tape armouring
- UV Stablized HDPE outer sheath, black

Special Features

- Single layer stranded construction
- Small diameter & light in weight
- Corrugated steel tape acts as protection against rodents and mechanical damage.
- Robust construction and insect resistant
- Flexible buffer tubes provide easy fibre routing inside closure

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 (Full Load)	20 x D, D = Cable D
Installed (No Load)	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	2500 N
Installed	1500 N
Torsion Resistance (IEC 60794-1-2-E7)	10 Cycle (± 360°) 10 Kg Weight, L= 2 Mtr

Crush Resistance (IEC 60794-1-2-E3) 3000 N (100 X 100 mm) for 600 sec

Impact Resistance (IEC 60794-1-2-E4) Height 500 mm, Weight = 4 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

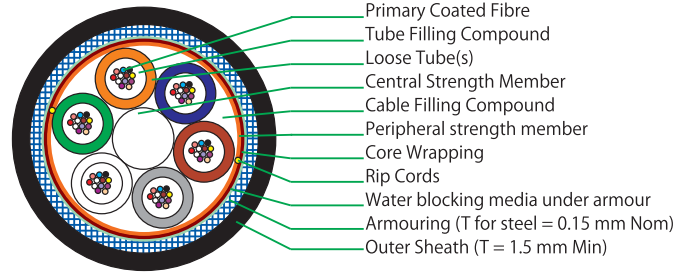
*Cable construction can be dry core or jelly filled

*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



MULTI TUBE DESIGN

FIBRE COUNT	DIAMETER (mm) Nominal	WEIGHT (Kg./Km) Nominal	TENSILE STRENGTH (N)		BENDING RADIUS (mm)	
			Installation	Operating	Temporary	Permanent
UPTO 48F	11.0	125	2500	1500	20D	15D
UPTO 72F	12.2	150	2500	1500	20D	15D
UPTO 96F	13.8	180	2500	1500	20D	15D
UPTO 144F	16.5	260	2500	1500	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 fibers.
- 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.