

## Multi-tube Single Sheath Unarmoured Cable (2-144 F)

Multi Loose Tube Design  
Suitable For Duct Installation



Water blocked



Outdoor



Underground



Metro

### Applications

- Inside Duct pulled or blown

### 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 used as Central Strength Member for Tensile Strength.
- Loose buffer tubes fully filled
- Loose buffer tubes S-Z Stranded
- Cable core fully filled with jelly
- Glass yarn used as peripheral strength member
- S-Z core wrapped with polyester tape
- UV Stablized HDPE outer sheath, black

### Special Features

- Single layer stranded construction
- Flexible buffer tubes provide easy fibre routing inside closure
- Light in weight, hence easy to install

### 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)

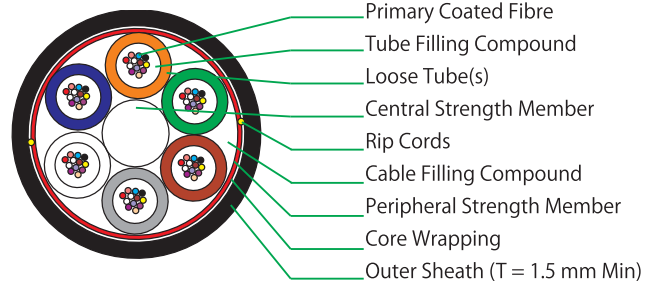
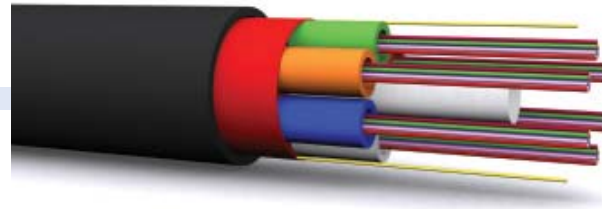
During Installation (Full Load)	20 x D, D = Cable D
Installed (No Load)	15 x D, D = Cable D
Repeated Bending (IEC 60794-1-2-E6)	30 Cycle, r= 20 X D, 10 Kg Load, D = Cable D

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

During Installation	2000 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)	2000 N (100 X 100 mm) for 600 sec
Impact Resistance (IEC 60794-1-2-E4)	Height 500 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



### MULTI TUBE DESIGN

FIBRE COUNT	DIAMETER (mm)	WEIGHT (Kg./Km)	TENSILE STRENGTH (N)		BENDING RADIUS (mm)	
			Installation	Operating	Temporary	Permanent
UPTO 48F	9.4	80	2000	1000	20D	15D
UPTO 72F	10.6	95	2000	1000	20D	15D
UPTO 96F	12.0	125	2000	1000	20D	15D
UPTO 144F	15.0	190	2000	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 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.