

Figure-8

OPTICAL FIBER CABLES

- Uni-tube Figure-8 Aerial Cable
- Multi-tube Figure-8 Aerial Cable

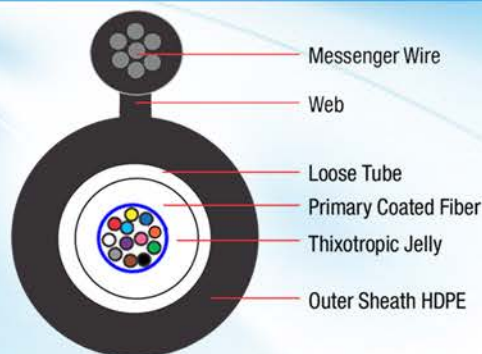


Figure-8 Cables

UNI-TUBE FIG 8 AERIAL CABLE (Up to 12F)



FIBER & TUBE COLOUR CODING



DRUM

Available in 2Km & above



COIL

NA



FRP

NA



YARN

NA



JACKET

HDPE

APPLICATIONS & FEATURES

- Suitable for aerial installation except on power lines
- Messenger wire provides required tensile strength recommended for aerial application
- Light weight cable construction design for ease of handling & installation
- Local loop, metro, long-haul and broadband network
- Available upto 24 fibers

OPTIONS AVAILABLE ON REQUEST

- Composite fibers/Customized designs/Aramid or Glass Yarns/LSZH/FR PVC

INTERNATIONAL STANDARDS

- IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- EN 187000; Telecordia GR-20 issue 3rd May, 2008

CONSTRUCTION DETAILS

- Single loose tube filled with thixotropic jelly and centrally placed in the cable
- Galvanized, stranded steel wire used as integrated messenger wire
- Outer sheath with UV Stabilized HDPE compound
- Fiber count 2F-24F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- Operating Temperature : -30 °C to + 70 °C
- Storage Temperature : -30 °C to + 70 °C
- Installation Temperature : -20 °C to + 70 °C

DRUM LENGTH

- 2000 meters ± 10%
- As per customer's requirement

TECHNICAL DATA

Fiber Count	Outer Diameter (*HxW(Nominal))	Weight (kg/km)	Tensile Strength (N)		Bending Radius	
			Temporary	Permanent	Temporary	Permanent
2F-12F	13.0 X 6.4 mm (0.51 X 0.25 in)	87	2500	1250	15D	20D
24F	(0.55 X 0.29 in) 14.0 X 7.4 mm	98	2500	1250	15D	20D

FIBER TRANSMISSION PERFORMANCE

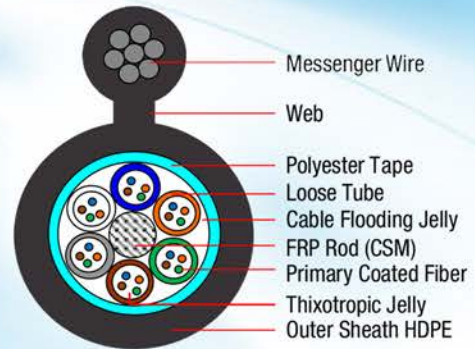
Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G.652D
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G.652D
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A

Figure-8 Cables

MULTI-TUBE FIGURE-8 AERIAL CABLE (Up to 144F)



FIBER & TUBE COLOUR CODING



APPLICATIONS & FEATURES

- Suitable for aerial installation except on power lines
- Messenger wire provides required tensile strength recommended for aerial application
- Light weight cable construction design for ease of handling & installation
- Local loop, metro, long-haul and broadband network
- Available upto 144 fibers

OPTIONS AVAILABLE ON REQUEST

- Dry core construction (Gel free)/Composite fibers/ Customized designs/Aramid or Glass Yarns/Rip Cord (s)

INTERNATIONAL STANDARDS

- IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- EN 187000; Telecordia GR-20 issue 3rd May, 2008

CONSTRUCTION DETAILS

- Non metallic, anti-buckling FRP rod as Central Strength Member (CSM)
- Loose tube containing coloured fibers and filled with thixotropic jelly
- Cable core fully filled with flooding jelly
- S/Z core wrapped with polyester tape
- Galvanized, stranded steel wire used as integrated messenger wire
- Outer sheath with UV Stabilized HDPE compound
- Fiber count 2F-144F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4)

ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- Operating Temperature : -30 °C to + 70 °C
- Storage Temperature : -30 °C to + 70 °C
- Installation Temperature : -20 °C to + 70 °C

DRUM LENGTH

- 2000 meters ± 10%
- As per customer's requirement

TECHNICAL DATA

Fiber Count	Outer Diameter *HxW(Nominal)	Weight (kg/km)	Tensile Strength (N)		Bending Radius	
			Temporary	Permanent	Temporary	Permanent
Upto 36F	16.8 X 9.7 mm (0.66 X 0.38 in)	135	5000	2500	15D	20D
48F-72F	18.3 X 11.2 mm (0.72 X 0.44 in)	163	5000	2500	15D	20D
96F	19.7 X 12.6 mm (0.78 X 0.50 in)	197	5000	2500	15D	20D
144F	22.8 X 15.7 mm (0.90 X 0.62 in)	258	5000	2500	15D	20D

* H= Height of Cable ; W= Width of Cable

FIBER TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G.652D
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
Maximum Attenuation (dB/ km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.36/0.23/0.26
Bandwidth (MHz*km) 850/ 1300	200/500	500/500	1500/500	3500/500	N/A



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