

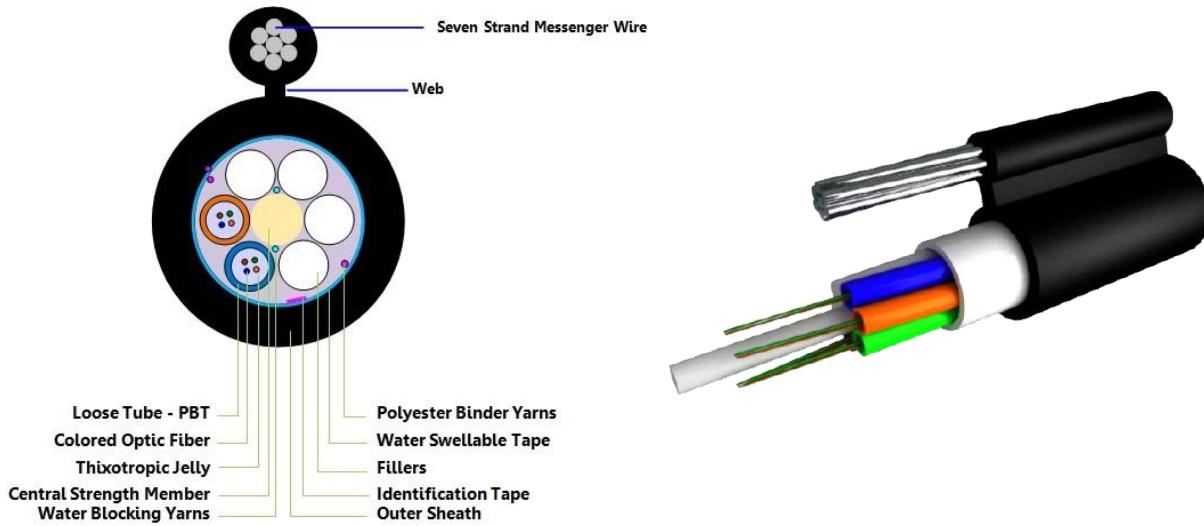
TECHNICAL DATA SHEET

SINGLE MODE G.652.D AERIAL FIG-8 OPTICAL FIBER CABLE

Aerial Figure-8 Optical Fiber Cables. These are Self-Supporting cables designed for aerial installation. The cable design provides easy and economical one-step installation and stable performance over a wide temperature range. The whole tensile load is borne by steel messenger wire. These cables are manufactured according to international standard.

Applications: Aerial Installation - High Mechanical Strength - Data, Voice & Video Transmission

Cable Constructions: Loose Tube filled with Gel - Stranded around Central Strength Member - Water Blocking Material - Dry Core - Messenger Wire embedded Polyethylene Outer Jacket



Technical Characteristics

- The unique extruding technology provides the fibers in the tube with good flexibility and bending endurance
- The unique fiber excess length control method provides the cable with excellent mechanical and environmental properties
- Multiple water blocking material filling provides dual water blocking function

Features & Benefits

- Small Diameter
- Light Weight
- Compatible for any telecommunication grade optical fiber



CONSTRUCTION PARAMETERS

Fiber Type	ITU-T G.652D				
Fiber Count	12F	24F	36F	48F	72F
Number of Fiber per Loose Tube	12	12	12	12	12
No. of Loose Tubes	1	2	3	4	6
Loose Tube Filling Material	Thixotropic Terephthalate (PBT)				
Central Strength Member	Fiber Reinforced Plastic (FRP)				
No. of Fillers	5	4	3	2	0
Filler Material	Polyethylene				
Core Moisture Protection Methodology	Dry Block Design, Water Blocking Yarns/Tapes				
Messenger Wire	Galvanized Steel Wires				
Outer Sheath Material	Medium/High Density Polyethylene (HDPE/MDPE)				
Printing on Outer Sheath	Engraved Hot Foil Ink or Inkjet Printing				
Drum Length	2000m or 4000m ± 5%				

OPTICAL CHARACTERISTICS

Single Mode Fiber	CORNING SMF-28e+ G.652D
Fiber Colour Coding	As per TIA/EIA-598A&C
Mode Field Diameter, μm	8.6 to 9.5 ± 0.7
Cladding Diameter, μm	125 ± 1
Core Clad Concentricity error, μm	≤ 0.8 μm
Cladding Non-Circularity, %	≤ 2 %
Cable Cut-off Wavelength, nm	≤1260 nm
Chromatic Dispersion (ps/nm.km)	≤ 3.5 @ 1310nm ≤ 18 @ 1550nm
Cabled Attenuation @ 1310 nm (dB/km)	≤ 0.35 (average)
Cabled Attenuation @ 1550 nm (dB/km)	≤ 0.21 (average)
Polarized Mode Dispersion (PMD) ps/ $\sqrt{\text{km}}$	≤ 0.2

MECHANICAL CHARACTERISTICS

Tensile Strength (N) (Max)	3000
Minimum Bending Radius	10 x outer without load
Diameter of cable (mm)	20 x outer with load
Crush Strength (N) (max)	2500
Temperature Range	-20 °C to +70 °C

MANUFACTURER

Manufacturer	LITECH PAKISTAN (PRIVATE) LIMITED
Country of Origin	Islamic Republic of Pakistan
ISO	ISO 9001:2015 Certified

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