

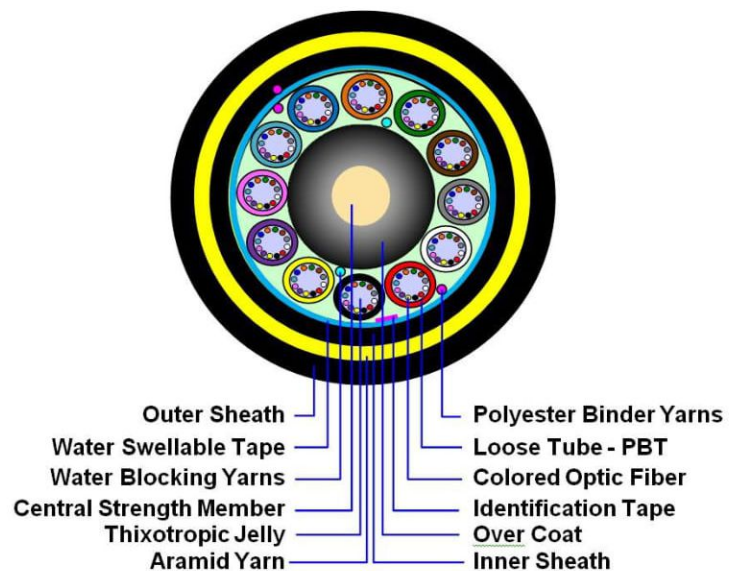
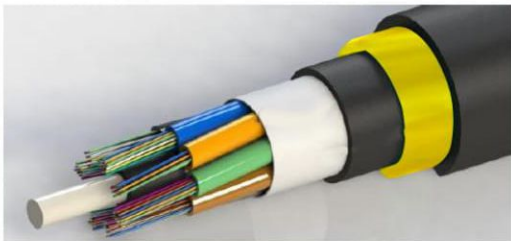
TECHNICAL DATA SHEET

SINGLE MODE G.652.D ADSS (ALL DIELECTRIC SELF-SUPPORTING) DOUBLE JACKET AERIAL OPTICAL FIBER CABLES

ADSS (All Dielectric Self-Supporting) Aerial Optical Fiber Cables. ADSS Optical Fiber Cables are solution for High Performance Aerial Environments including Power Transmission and Distribution Networks. All-Dielectric Construction reduces installation costs by avoiding the need for expensive cable shielding and grounding. These cables are manufactured according to international standard.

Applications: Aerial Installation - Lightning Protection - Junction Communication System, Subscriber Network System.

Cable Constructions: Loose Tube Filled With Gel-Stranded around Central Strength Member - Dry Core - Core Wrap - Water Blocking Material - Polyethylene Inner Sheath - Peripheral Strength Member (Layer of Aramid Yarn) - 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
- provides good crush resistance

Features & Benefits

- Supports all grades of Single Mode & Multimode Fibers
- Cable round profile minimizes wind loading and tensile and ice loading (reducing cable SAG and Tensile Force)
- All dielectric Loose Tube Design is immune to Electro Magnetic Interface



CONSTRUCTION PARAMETERS

| | |
|--------------------------------------|--|
| Fiber Type | ITU-T G.652D |
| Fiber Count | 02 to 144 Fibers |
| Loose tube Filling Material | Thixotropic Terephthalate (PBT) |
| Central Strength Member | Fiber Reinforced Plastic (FRP) |
| Filler Material | Polyethylene |
| Core Moisture Protection Methodology | Dry Block Design, Water Blocking Yarns/Tapes |
| Armouring/Peripheral Strength Member | Aramid Yarn |
| Outer Sheath Material | Medium/High Density Polyethylene (HDPE/MDPE) |
| Printing on Outer Sheath | Engraved Hot Foil Ink or Inkjet Printing |
| Drum Length | 2000 or 4000 Meters ± 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/√km | ≤ 0.2 |

MECHANICAL CHARACTERISTICS

| | |
|----------------------------|-------------------------|
| Tensile Strength (N) (Max) | 5000 |
| 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 |

Litech Pakistan (Private) Limited

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