

TECHNICAL DATA SHEET

SINGLE MODE G.652.D ADDS (ALL DIELECTRIC SELF – SUPPORTING) SINGLE 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 - Peripheral Strength Member (Layer of Aramid Yarn) - Polyethylene Outer Jacket

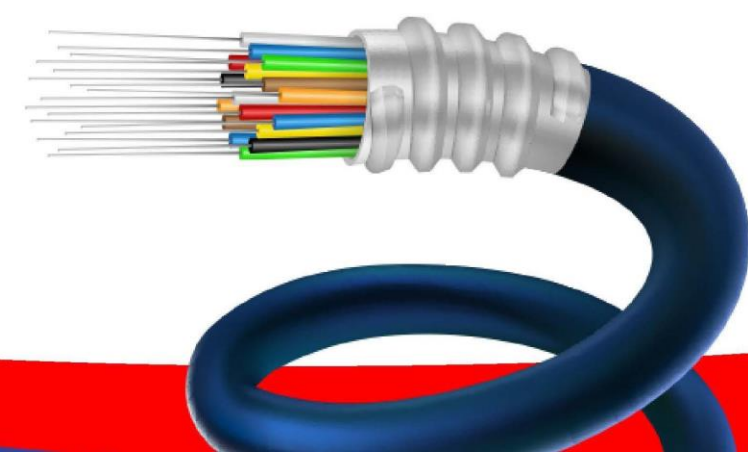


Technical Characteristics

- 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 $\pm$ 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 $\pm$ 0.7
Cladding Diameter, μm	125 $\pm$ 1
Core Clad Concentricity error, μm	$\leq$ 0.8 μm
Cladding Non-Circularity, %	$\leq$ 2%
Cable Cut-off Wavelength, nm	$\leq$ 1260 nm
Chromatic Dispersion (ps/nm.km)	$\leq$ 3.5@ 1310nm $\leq$ 18 @ 1550nm
Cabled Attenuation@ 1310 nm (dB/km)	$\leq$ 0.35 (average)
Cabled Attenuation @ 1550 nm (dB/ km)	$\leq$ 0.21 (average)
Polarized Mode Dispersion (PMD) (ps/ $\sqrt{\text{km}}$)	$\leq$ 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 FACTORY/REGISTERED OFFICE

Plot # 95, Phase II, M-3
Industrial City, Faisalabad
Ph#: +92-41-2626672-73
Fax: +92-41-2626671
Email: info@litech.com.pk

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