

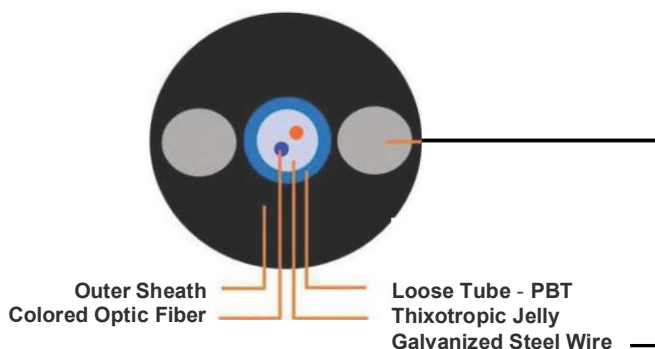
TECHNICAL DATA SHEET

SM G.652.D CENTRAL LOOSE TUBE ROUND DROP CABLE

CABLE CONSTRUCTION

Cable Type	SM G.652.D CENTRAL LOOSE TUBE ROUND DROP CABLE
Fiber Count	1 Fiber to 12 Fibers
Fiber Type	Single Mode Fiber as per ITU-T G.652.D
Fiber Color	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Rose, Aqua
Number of Loose Tubes	1
Loose Tube Material	PBT
Jelly Compound inside LT	Thixotropic Jelly Filling Compound
Strength Member	2 x Parallel Galvanized Steel Wires placed at two sides for Robust strength
Strength Member (Optional)	2 x Parallel FRP placed at two sides for Robust strength as per customer requirement
Outer Sheath (Material)	Medium/High Density Polyethylene (HDPE/MDPE)
Outer Sheath (Color)	Black
Outer Diameter of Cable	5mm - 5.5mm Nominal
Outer Sheath Printing	LITECH PAKISTAN (PRIVATE) LIMITED= No. of Fiber= FTTH Round Drop OFC = Year of Mfg= LM
Packing	Suitable Strong Reel
Cutting Length	2000 or 4000 meter $\pm$ 5% or as requested in smaller length.

CROSS SECTIONAL DRAWING



Technical Characteristics

- Low Weight
- Easy to install & joint
- HDPE Sheath

Construction:

- SM G.652.D Fiber
- PBT Loose Tube
- Thixotropic Jelly inside Loose Tube
- Strength Member (2 x Steel Wires)
- Outer Sheath (HDPE)



FIBER PROPERTIES

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	$\leq 0.8 \mu\text{m}$
Cladding Non-Circularity, %	$\leq 2\%$
Cable Cut-off Wavelength, nm	$\leq 1260 \text{ nm}$
Chromatic Dispersion (ps/nm.km)	$\leq 3.5 @ 1310\text{nm}$ $\leq 18 @ 1550\text{nm}$
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	1000N (Maximum)
Crush Resistance	100N (Maximum)
Impact Resistance	0.5 Kg From Meter Height
Repeated Bending Test	10 Cycle
Torsion Test	No. of Cycles: 05 Twist Angle: $\pm 180^\circ$
Cable Bending Test	10 X Cable Diameter (No Load) 20 X Cable Diameter (Full Load)
Temperature Range	-10°C to $+70^\circ \text{C}$

Note: All Mechanical & Environmental Test Shall be Conducted as per IEC-60794 Standard.

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

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