

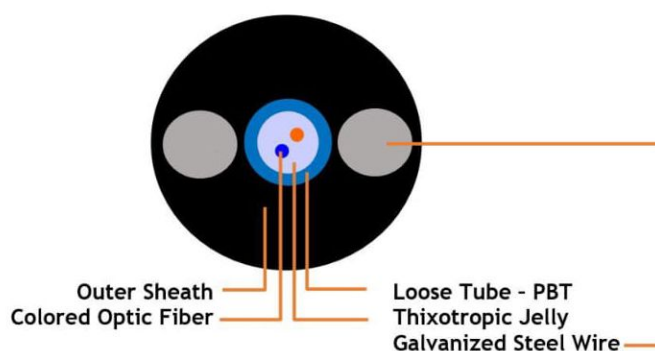
TECHNICAL DATA SHEET

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	6mm - 6.5mm Nominal
Outer Sheath Printing	PTCL CABLES = 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 \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/√km	\leq 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°
Cable Bending Test	10 X Cable Diameter (No Load) 20 X Cable Diameter (Full Load)
Temperature Range	-10 °C to +70 °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

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