

TECHNICAL DATA SHEET

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

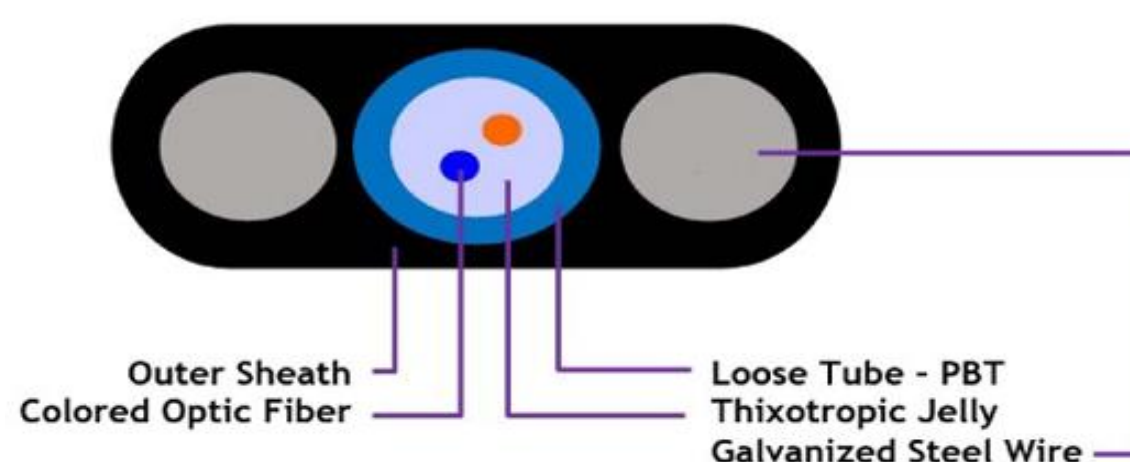
CABLE CONSTRUCTION

Cable Type	SM G.652.D CENTRAL LOOSE TUBE FLAT 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	6.0 x 3.5mm ± 0.3 mm Nominal
Outer Sheath Printing	Litech Pakistan (Private) Limited= No. of fiber = FTTH FLAT 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



Picture is for reference only.

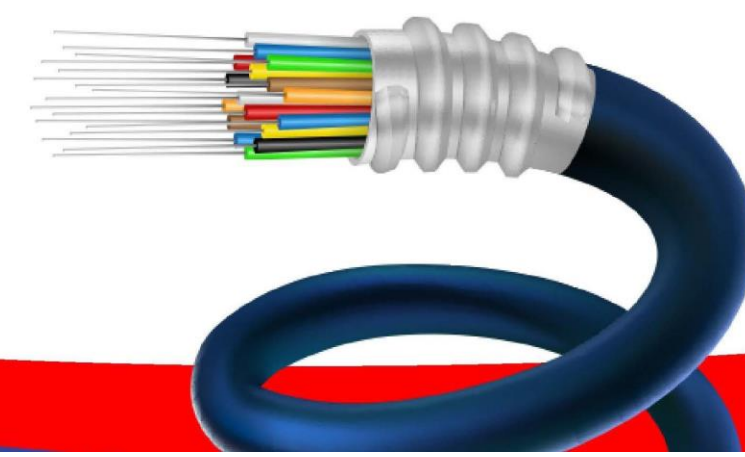


Technical Characteristics

- 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)



FIBER PROPERTIES

OPTICAL CHARACTERISTICS	
Single Mode Fiber	CORNING SMF-28e+ G.652D
Fiber Colour Coding	As per TIA/EIA-598A&C
Mode Field Diameter, K3	8.6 to 9.5 $\pm$ 0.7
Cladding Diameter, K3	125 $\pm$ 1
Core Clad Concentricity error, K3	L 0.8 μ m
Cladding Non-Circularity, %	L 2 %
Cable Cut-off Wavelength, nm	$\leq$ 1260 nm
Chromatic Dispersion (ps/nm.km)	L 3.5 @ 1310nm L 18 @ 1550nm
Cabled Attenuation @ 1310 nm (dB/km)	L 0.35 (average)
Cabled Attenuation @ 1550 nm (dB/km)	L 0.21 (average)
Polarized Mode Dispersion (PMD) ps/ $\sqrt$ km	L 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

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