



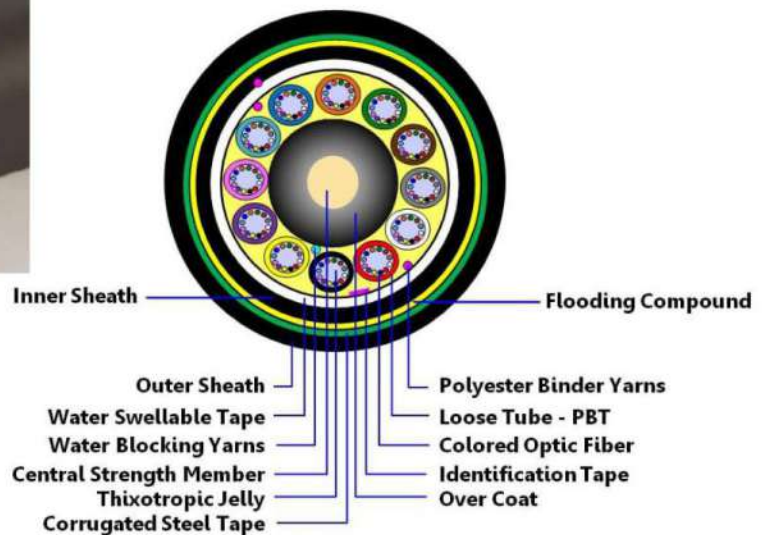
TECHNICAL DATA SHEET

SINGLE MODE G.652.D DIRECT BURIED OPTICAL FIBER CABLE

Steel Tape Armored Optical Fiber Cables for Direct Burial has been popular cabling solution for Outside Plant Applications. Corrugated Steel Tape and a Robust Polyethylene Outer Jacket combine to deliver rugged durability and added rodent resistance. These cables are manufactured according to international standard.

Applications: Direct Buried Installation - Data, Video, Voice Transmission - Rodent Resistant.

Cable Constructions: Loose Tube filled with Gel - Stranded around Central Strength Member - Water Blocking Material - Polyethylene Inner Sheath - Corrugated Steel Tape Armour and a Robust 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
- Offers excellent Crush Resistance
- Protects from rodent attacks

CONSTRUCTION PARAMETERS	
Fiber Type	ITU-T G.652.D
Fiber Count	02 to 144 Fibers
Loose Tube Material	PBT
Loose Tube Filling Material	Thixotropic Jelly Terephthalate (PBT)
Central Strength Member	Fiber Reinforced Plastic (FRP)
Peripheral Strength Member (if required)	Glass Yarn
Filler Material	Polyethylene
Core Moisture Protection Methodology	Dry Block Design, Water Blocking Yarns/Tapes
Armouring	Corrugated ECCS (Electro Chrome Coated Steel Tape)
Outer Sheath Material	Medium/High Density Polyethylene (HDPE/MDPE)
Printing on Outer Sheath	Engraved Hot Foil Ink or Inkjet Printing
Drum Length	2000m or 4000m \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/√km	\leq 0.2

MECHANICAL CHARACTERISTICS	
Tensile Strength (N) (Max)	3000
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