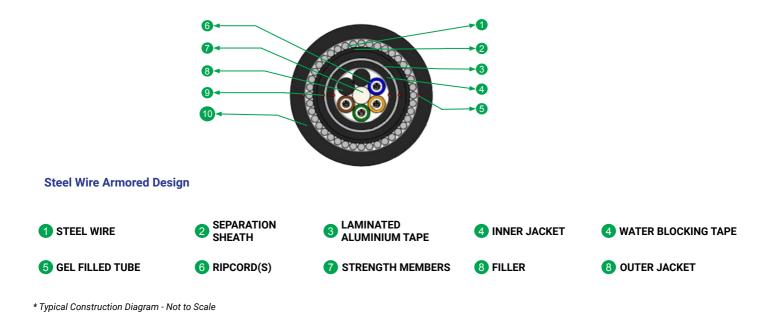
# STC

# ArmorLite<sup>®</sup> OSP QJ Wire Armored G.652 D Gel Filled OFC



## Features & Benefits

- Steel wire armour provide rodent protection improved crush and impact protection
- Jelly filled tube and dry water-blocking technology for gel free core helps in quicker end preparation
- Easily removable rugged thermoplastic jacket
- Flexible, easy to handle & install
- Tensile and crush resistant
- Harsh Hydrocarbon environment resistant

#### **Product Details**

STL ARMOR-LITE® Multitube Quadruple Jacket Steel Wire Armored Cables are suitable for direct buried applications. In addition to optical fibres, the buffer tubes contain water blocking gel, and the cable core is surrounded with water-swellable tape to prevent water ingress in the interstices of the cable core.

#### **Cable Performance Standards**

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH.

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#### **Printing Details**

Sterlite sm "fiber count" g652d armor laser symbol telephone symbol year of manufacture length code meter marking **Note :** Printing shall be done with white hot foil. The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20, and this supersedes the earlier markings.

#### **Specifications**

Physical Characteristics				
Fibre Type	Sterlite Fibre ITU-T G.652 D			
Maximum Cabled Attenuation (dB/km)	1310nm : 0.36 & 1550nm : 0.23			
PMD/LDV (ps/sqrt.km)	= 0.1</th			
Fibre Color Sequence	Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow,Violet,Pink,Aqua			
Tube Material	PBT & Filling gel			
Central Strength Members	FRP (Fibre Reinforced Plastic)			
Water Blocking	Black			
Metallic Armoring (For Armored Design)	Black Thermoplastic Flame Retardant Polyolefin (1.0mm nominal thickness)			
No of Ripcords Below Aluminium Tape	2			
Moisture Barrier	Aluminium Tape			
Intermediate sheath- 1	Black HDPE (1.0mm nominal thickness)			
Intermediate sheath- 2	Black Nylon (0.5mm nominal thickness)			
No of Ripcords Below Intermediate Sheath-1	2			
Metallic Armoring	Steel Wire Armoring			
No of Ripcords Below Outer Sheath	2			
Outer Sheath	UV Proof Black Thermoplastic Flame Retardant Polyolefin Sheath			

Optical Characteristics				
ITU-T Standards	STL NOVA 250 (ITU-T G.657.A1/G.652.D)			
Mode Field Diameter at 1310nm	9.1 ± 0.4 μm			
Mode Field Diameter at 1550nm	10.3 ± 0.5 μm			
Cladding Diameter	125 ±0.7 μm			
Coating Diameter (Uncolored)	242 ± 5 μm			
Cutoff Wavelength	≤1260 nm			
Max Core Concentricity Error	0.50µm			
Cladding Non-circularity	0.70%			
Chromatic Dispersion at 1285-1330nm	3.5 ps/(nm x km)			
Chromatic Dispersion at 1550nm	17.5 ps/(nm x km)			
Macro Bend Loss	1 turn 10mm radius : ≤0.5dB @1550nm & ≤1.5 dB@1625nm 10 turns 15mm radius : ≤0.1dB @1550nm & ≤ 0.3 dB@1625nm 1 turn 16mm radius : ≤ 0.03dB@1550nm			

## **Product Specification**

Cable Characteristics					
Fibre Count	Fibre Per Tube	No. of Tubes/Filler	Tubes Color Sequence	Cable Diameter ( +/- 2.0 mm)	Cable Weight (kg/km +/- 10%)
4	4	1/5	Blue, Filler, Filler, Filler, Filler, Filler	20.0	600
24	12	2/4	Blue, Orange, Filler, Filler, Filler, Filler	20.0	600
48	12	4/2	Blue, Orange, Green, Brown, Filler, Filler	20.0	600
72	12	6/0	Blue,Orange,Green,Brown,Slate,White	20.0	600

Mechanical & Environmental Characteristics					
Cable Characteristics	Testing Standard	Cable Performance			
Tensile Strength(N)	IEC-60794-1-21-E1	5000			
Crush Resistance (N/100mmX100mm)	IEC-60794-1-21-E3	4000			
Impact Strength(Nm)	IEC-60794-1-21-E4	20			
Torsion	IEC-60794-1-21-E7	±180º			
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D			
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	12.5 D			
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24 h			
Drip Test	IEC-60794-1-21-E14	30 cm, 70ºC, 24 h			
Temperature Performance	IEC-60794-1-22-F1				
Installation		-10ºC to +70ºC			
Operation		-40ºC to +70ºC			
Storage		-40ºC to +70ºC			
Flame Retardant Test Standards	IEC 60332-3-22				

Note : All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be </= 0.05 dB/km for Single Mode fibre.

#### **Packing and Lengths**

Drum Type	Length Multiple (in KM)	Order Tolerance	Short Lengths
Wooden Drums	4 ± 5%	± 5%	Max 5%, Customer Approval

#### For additional information please contact your sales representative.

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