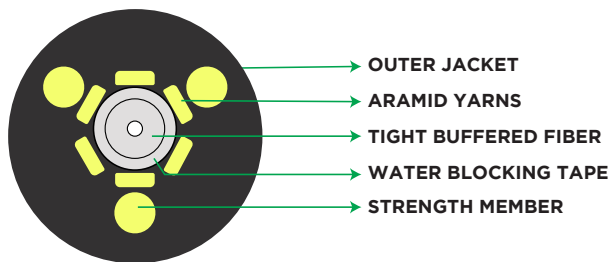


OPTO BOLT

Hardened SC/APC Connectorised Drop Cable
G.657.A2 Single Mode Optical Fiber



Product Details

STL's OPTO-BOLT factory terminated single fiber drop cables are designed to significantly reduce cable installation time required for subscriber connection, thereby reducing the total cost to connect.

The connectors are field hardened to provide superior durability, consistent connectivity and interface with alike hardened connector terminals. The cable jacket has three integral aramid rods for excellent crush resistance and bend management and can provide additional support when deployed into conduits. In this round cable design, we overcome the preferential bending of oval/flat cables to ease installation and slack management.

These cable assemblies are available in multiple lengths and can be supplied with a single connector and a cable stub end or with a connector on both ends.

Features

- Telcordia GR - 3120 certified for the hardened connector and GR-20 for the drop cable
- Compatible with legacy hardened terminals and connectors
- Manufactured with UV stabilized jacket & designed for superior crush resistance
- IP 68 rated
- IEC and ITU-T standard complaint
- RoHS Compliant

Applications

Suitable for

- Underground in Duct
- Aerial Self Supporting Drop
- Direct Buried

Optical Specifications

Parameter	Specification
Connector Type	OPTO-BOLT™ SC/APC
Insertion Loss	≤ 0.30dB
Return Loss	≥ 60dB

Physical Characteristics	
Fiber Count	1F
Fiber Type	STL Fiber ITU-T G657A2
Maximum Cabled Attenuation (dB/km)	1310nm : 0.4 & 1550nm : 0.3
Fiber Color	White
Semi-Tight Buffer	Semi-Tight LSZH Buffer (20mm single strip, <10N Strip Force)
Tight Buffer Color	White
Tight Buffer Size	0.90 ± 0.05 mm
Water blocking elements	Water Swellable Tape
Peripheral Strength Elements	Aramid Yarns
Embedded Strength Members	3 ARP (Aramid Reinforced Plastic) embedded in the outer sheath
Outer Sheath Material	UV Stabilized, Black Polyethylene
Nominal Sheath Thickness (mm)	1.3mm
Cable Diameter [mm]	4.9 ± 0.3
Cable Weight [kg/km]	16 ± 2

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standards
Tensile Strength (Max allowable) (N)	GR 20/ICEA_S-110-717	440N at <1.20%
Maximum Breaking Load (N)	GR 20/ICEA_S-110-717	1350 - 2450 N
Crush Resistance (N/100 mm)	GR 20/ICEA_S-110-717	1000N
Impact Strength(Nm)	GR 20/ICEA_S-110-717	2.9Nm
Torsion	GR 20/ICEA_S-110-717	±180°
Repeated Bending	GR 20/ICEA_S-110-717	
Min. Bend Radius		10 x D
Water Penetration Test	GR 20/ICEA_S-110-717	1m waterhead, 3m samples, 24 h
Temperature Performance	GR 20/ICEA_S-110-717	
Installation		-10°C to +75°C
Operation		-40°C to +70°C
Storage/Transport		-40°C to +70°C

Note: All tests shall be carried out as per GR 20 standard, change in attenuation shall be \leq 0.4 dB at 1550 nm

Loading Conditions				
Operating Condition	Span Length (m)	Installation Sag (%)	Ice Thickness (mm)	Wind Speed (km/h)
Condition 1	55	\leq 1.2%	0	97
Condition 2	55	\leq 1.2%	5	0

Cable Performance Standards

Cable complies to the standards: GR 20/ ICEA-110-717,IEC, ITU-T, and RoHS.

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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