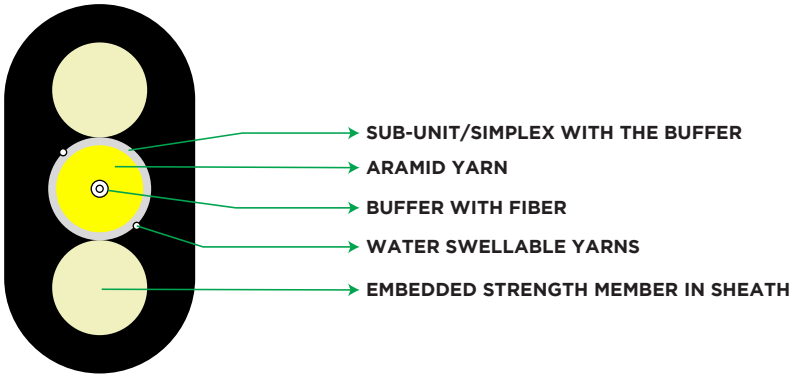
Product Specification

OptoBolt

Hardened SC/APC Connectorized Simplex Flat Drop Cable G.657.A2 Single Mode Optical Fiber



Product Details

STL OptoBolt factory terminated single fiber simplex flat 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 offers ease of installation in an easy access, single-buffer design. This is a central inner sub unit cable (Simplex) using single optical fiber with a buffer presented and is enclosed in a thermoplastic sheath.The cables have two embedded strength members for anti-buckling property. The dielectric version eliminates any bonding and grounding requirements. 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
- Manufactured with UV stabilized jacket & designed for superior crush resistance
- Embedded strength members for anti-buckling properties
- Easy access to fiber due to its buffer construction
- Compatible with legacy hardened terminals and connectors
- Tensile and crush resistant
- UV protected
- IP 68 rated
- IEC and ITU-T standard complaint
- RoHS Compliant

Applications

Suitable for
- Underground in duct
- Aerial Self Supporting Drop
- Direct Buried

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH, EIA/TIA-598C.

Optical Specifications

Parameter	Specification
Connector Type	• OptoBolt SC/APC • Standard SC/APC with pulling sock
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	Natural
Number of Semi-Tight Buffer	1
Tight Buffer Color and Material	White
Tight Buffer Size	0.90
No. of sub-unit	1
Subunit color and Material	White
Water blocking elements	Water Swellable Tape
Embedded Strength Members	FRP embedded in the outer sheath
Outer Sheath Material	UV Stabilized, Black Polyethylene
Cable Diameter [mm]	4.2 X 8.2
Cable Weight [kg/km]	39

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standards**
Tensile Strength (Max allowable) (N)	1350	ICEA 640 | FOTP-33
Crush Resistance (N/m)	1000	ICEA 640 | FOTP-41
Impact Strength (Nm)	2.9	ICEA 640 | FOTP-25
Torsion	±180°	ICEA 640 | FOTP-85
Min. Bend Radius	During Installation: 24 X D After Installation: 12 x D	ICEA 640|FOTP-88
Water Penetration Test	1m waterhead, 3m samples, 24 h	ICEA 640 | FOTP-82
Temperature Performance	Max. change in attenuation shall be </= 0.15 dB/km	ICEA 640 | FOTP-3
Installation	-30°C to + 70°C (-22 °F to 158 °F)	
Operation	-40°C to + 70°C (-40 °F to 158 °F)	
Storage/Transport	-40°C to + 70°C (-40 °F to 158 °F)	

Note: All tests shall be carried out as per ICEA standards.

Loading Conditions						
	NESC Light		**NESC Medium**		**NESC Heavy**	
	Ice Thickness 0 mm (0 in)	**Wind Speed 97 KMPH (60 MPH)**	**Ice Thickness 6.35 mm (0.25 in)**	**Wind Speed 64 KMPH (40 MPH)**	**Ice Thickness 12.7 mm (0.5 in)**	**Wind Speed 64 KMPH (40 MPH)**
Installation Sag (%)	1.5%	3%	1.5%	3%	1.5%	3%
Span (m)	100	132	65	85	35	44
Span (ft)	328	433	213	279	115	144
Operational Sag (%)	3.6%	4.6%	3.5%	4.4%	3%	4.5%

Ordering Information						
Series Name	**Connector at End 1 (Inner Side)**	**Type of Cable**	**Cable Length**	**Connector at End 2 (Outer Side)**	**Standard Packaging***	**Cable Printing**
OptoBolt	N - No Connector S - OptoBolt SCA 1 - Standard SCA	RD - Round F - Flat	XXXX M XXXX F	N - No Connector S - OptoBolt SCA 1 - Standard SCA	1	STL

* Standard packaging is a cardboard coil and multiple coils are packed in a box with a cable length <350m and a drum for the length more than 350m.

For additional information please contact your sales representative.
You can also visit our website at www.stl.tech