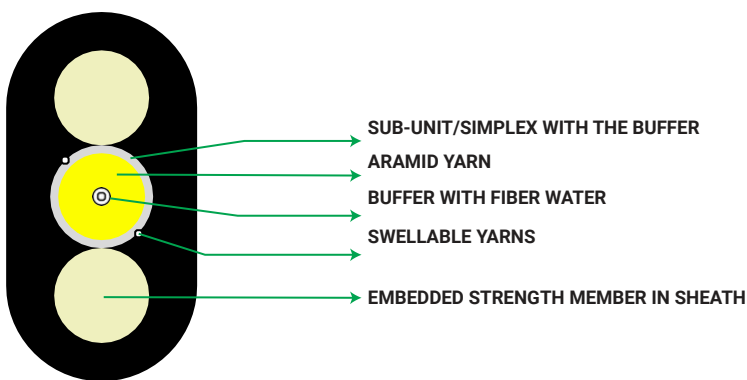


# OptoBolt

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



\* Typical Construction Diagram - Not to Scale

### 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	<ul style="list-style-type: none"> <li>• OptoBolt SC/APC</li> <li>• Standard SC/APC with pulling sock</li> </ul>
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 <sup>1</sup>

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 1.** 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 <sup>2</sup>	Cable Printing
OptoBolt	S - OptoBolt SCA	FL - Flat	XXXX M XXXX F	S - OptoBolt SCA	1	STL
<b>Also available in</b>						
-	N - No Connector 1 - Standard SCA	RD - Round TN - Flat Toneable	XXXX M XXXX F	N - No Connector 1 - Standard SCA	1	STL

**Note 2.** 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](http://www.stl.tech)

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