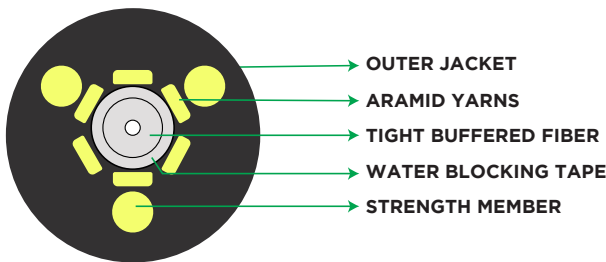


# OptoBolt

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



## Product Details

STL OptoBolt 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

## Cable Performance Standards

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

## Optical Specifications

Parameter	Specification
Connector Type	OptoBolt 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 &amp; 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 ≤/ = 0.4 dB at 1550 nm

**Loading Conditions**

Loading Condition	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%	N/A	N/A
Span (m)	70	84	23	30	N/A	N/A
Span (ft)	230	276	75	98	N/A	N/A

**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 FL - Flat TN - Flat Toneable	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](http://www.stl.tech)

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