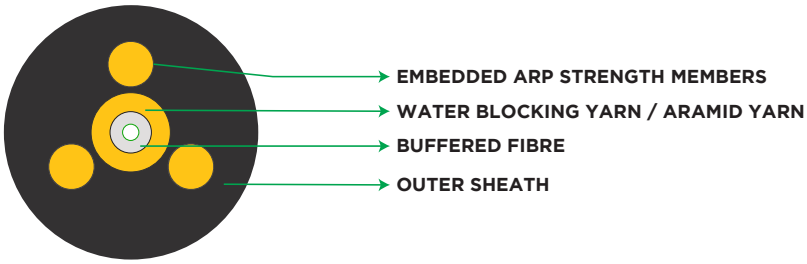
Product Specification

OPTO BOLT

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



** Typical Construction Diagram - Not to Scale*

Product Details

STL's OPTO-BOLT factory terminated single fibre 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 similar hardened connector terminals currently available. The cable jacket has three integral ARP rods for excellent crush resistance and bend management and these also provide additional support when into conduits.

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

Features

- Compatible with legacy hardened terminals and connectors
- UV stabilized & crush resistant jacket
- IP 68 rated products tested for 2 meters depth of water for 7 days
- UV stabilized and Crush Resistant Jacket
- IEC and ITU-T standard complaint
- RoHS Compliant

Applications

Suitable for

- Underground in duct
- Aerial Self Supporting Drop
- Direct Bury

Printing & Packaging

Printing Type: Ink-Jet/Laser Printing
Information on Label: STL standard printing

Specifications

Physical Characteristics	
Cable Diameter (mm)	4.7 ± 0.3
Cable Weight (Kg/km)	15 ± 2
Fibre Count	One (1)
Water Protection	Water Blocking Yarns
Strength Member(s)	3 x ARP embedded in sheath, internal Aramid Yarn
Outer Sheath Material	UV Stabilized Black Polyethylene
Sheath Thickness	1.5mm (Nominal)

Fibre Characteristics	
Optical Fibre Type	STL Fibre ITU-T G.657.A2
Max. Cabled Attenuation (dB/km)	1310nm: 0.4, 1550nm: 0.3
Coating Diameter	242 ± 7 Qm
Coating Colour	Blue
Buffer Diameter	900 ± 100 µm
Buffer Colour	Clear
Insertion Loss	≤ 0.30dB
Return Loss x	≥ 60dB

Installation Parameters

Span Length	Installation Sag	Loading Condition (-20°C to +60°C)	
55m	≤ 1.2m	**Condition 1**	Wind speed: 97 km/hr, ice thickness: 0 (zero) mm
		Condition 2	Wind speed: 0 (zero) km/hr, ice thickness: 5 mm

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standards**
Maximum Breaking Load	1350~2000 N	IEC 60794-1-2
Installation Tension	150 N at <0.3%	IEC 60794-1-2
Max allowable Tensile	420 N at <0.8%	IEC 60794-1-2
Minimum Bend Radius	12 D	IEC 60794-1-2
Water Penetration	1m head, 3m samples, 24 hrs	IEC 60794-1-2
Crush Resistance	2000 N/100mm	IEC 60794-1-2
Impact	5 Nm	IEC 60794-1-2
Torsion	± 360°	IEC 60794-1-2
Installation	-20°C to +60°C	IEC 60794-1-2
Operation	-20°C to +60°C	IEC 60794-1-2
Storage and Transport	-20°C to +60°C	IEC 60794-1-2

Note: Tests carried out as per IEC Standards. Change in attenuation ≤ 0.05 dB/km. *Max. change in attenuation ≤ 0.1 dB/km.

Packing and Length

Cable Length	Order Tolerance	Short Lengths
As per customer requirement	± 5%	Max 5%, Customer Approval

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