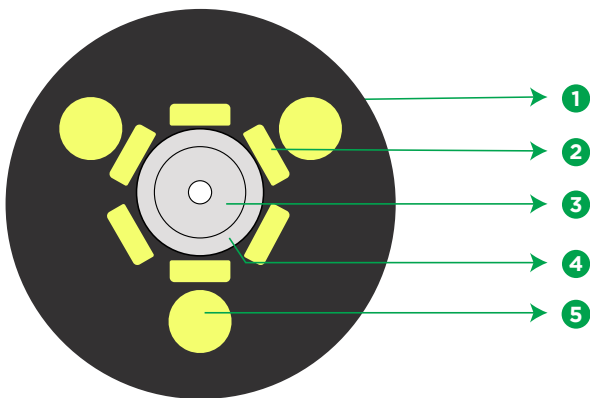


# DROP-LITE

## Single Sheath OFC



1 OUTER JACKET

2 ARAMID YARNS

3 TIGHT BUFFERED FIBRE

4 WATER BLOCKING TAPE

5 STRENGTH MEMBER

\* Typical Construction Diagram - Not to Scale

### Features & Benefits

- Semi Tight Buffer cable for small diameter and light weight
- High crush resistant unit cable enables direct burial application
- Embedded ARPs provide necessary stability for aerial self-supported applications
- Flexible, light weight, easy to handle & install
- UV protected

### Product Details

Sterlite Tech™ DROP LITE Direct Buried/ADSS Semi Tight Buffer Single Jacket cable is based on a single buffer containing waterblocking tape, surrounded by high strength member yarns as peripheral strength. Additional 3 ARP rods are embedded diametrically equilateral position to provide the cable with the necessary stability especially needed for aerial self-supported applications.

### Cable Performance Standards

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

## Application : Multipurpose Deployment

- This cable is an aerial version which has multipurpose deployments.(additional feature of the breaking load is provided to enhance the aerial deployment safety procedures.
- Underground deployment like direct buried.
- Clipped to external wall.

## Printing Details

Printing: STERLITE SM 1F G657A2 FTTP OH CONNECTORISED DROP CABLE LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE FEET MARKING

**Note:** Length Marking at each 1m. The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

## Specifications

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

## Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard
Tensile Strength (Max allowable) (N)	440N at <1.20%	GR 20/ICEA_S-110-717
Maximum Breaking Load (N)	1350 ~ 2450 N	GR 20/ICEA_S-110-717
Crush Resistance (N/100 mm)	1000N	GR 20/ICEA_S-110-717
Impact Strength(Nm)	2.9Nm	GR 20/ICEA_S-110-717
Repeated Bending	±180°	GR 20/ICEA_S-110-717
Min. Bend Radius	10 x D	
Water Penetration Test	1m waterhead, 3m samples, 24 h	GR 20/ICEA_S-110-717
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 Tests shall be carried out as per GR 20 standard, Change in attenuation shall be  $\leq$  0.4 dB at 1550 nm

Operating Condition	Span Length (m)	Loading Conditions		
		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

## Packing and Lengths

Drum Type	Length Multiple (km)	Order Tolerance	Short Lengths
Wooden Drums with wooden lagging	As per customer requirement	± 5%	Max 5%, Customer Approval

01/102023

**For additional information please contact your sales representative.**

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