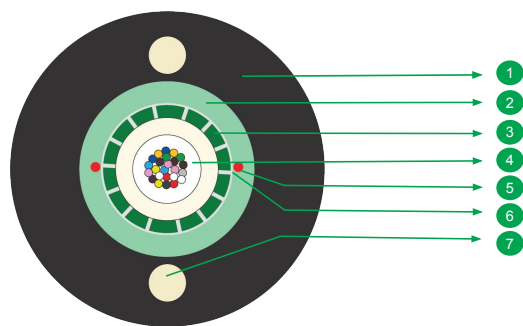


# DROP-LITE OSP SJ

24F (12F MCF + 12F NOVA) Gel Filled ECCS, PE OFC



1 OUTER JACKET

2 CORRUGATED STEEL TAPE

3 GLASS ROVING YARNS

4 GEL FILLED TUBE

5 RIPCORD(S)

6 WATER BLOCKING TAPE

7 STRENGTH MEMBER

*\* Typical construction diagram - Not to scale*

## Features & Benefits

- Steel tape armor enhances crush resistance and allows post-installation cable detection using standard locators.
- Built-in rodent protection ensures long-term reliability in exposed outdoor environments.
- Rugged thermoplastic outer jacket is easy to strip, simplifying preparation and termination.
- Lightweight and flexible design enables easy handling and faster aerial or duct installation.
- High tensile and crush resistance ensures mechanical stability under stress and load.
- UV-stabilized outer sheath offers protection against prolonged sun exposure and weathering.
- Precision-engineered for consistent diameter and construction, ensuring compatibility with installation tools and accessories.
- Suitable for access network deployments requiring a balance of durability, flexibility, and protection.

## Product Details

DROP-LITE OSP SJ 24F (12F MCF + 12F NOVA) Gel Filled Optical Fibre Cable is a unitube, steel tape armored optical fibre cable engineered for robust outdoor performance. It features a central loose tube containing a mix of 12F Multi Core Fiber (MCF) and 12F G.657A1 NOVA fibres, providing both high-density capacity and bend-resilient performance. The tube is filled with a thixotropic gel to prevent water ingress and ensure long-term fiber protection. A layer of ECCS (Electrolytic Corrugated Steel Tape) armor surrounds the core, enhancing mechanical strength and offering resistance against rodent attacks and external impact. Encased in a durable thermoplastic polyethylene outer sheath, the cable is suitable for aerial drop and duct installations in access networks. Its construction supports stability, reliability, and ease of deployment in a wide range of outdoor environments.

## Fibres and Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH.

## Printing Details

STERLITE SM 24F 12F NOVA + 12F MCF UNITUBE ARMORED LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE  
METER MARKING

**Note:** 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	
Fibre Count	24
Fibre Type	12F STL MCF Fibre (4 Core/Fibre) 12F STL NOVA Fibre (Comply ITU-T G.652D/G.657A1)
Maximum Cabled Attenuation (dB/km)	For MCF: 1550nm : 0.3 Nova: 1310nm : 0.36 & 1550nm : 0.22 & 1625 nm : 0.25
Fibres per Tube	24
Fibre Color Sequence	MCF:-Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua, NOVA:-Blue*,Orange*,Green*,Brown*,Slate*,White*,Red*,Natural*,Yellow*, Violet*,Pink*,Aqua*
Peripheral Strength Members	Glass Roving Yarns
Metallic Armoring	Corrugated Steel Tape
No of Ripcords Below Tape	2
Outer Sheath Material	UV Stabilized Black Polyethylene
Embedded Strength Member	FRP (Fibre Reinforced Plastic)
Nominal Cable Dimensions (mm)	10.5±0.5
Nominal Cable Weight (kg/km)	110±10%

**Note:** \*Is the ring marked fiber with interspacing of 50mm

## Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	2000
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	1000
Impact Strength(Nm)	IEC-60794-1-21-E4	5
Torsion	IEC-60794-1-21-E7	±180°
Kink	IEC-60794-1-21-E10	15 D
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	15 D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24 h
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 h
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be $\leq 0.15$ dB/km
Installation		-10°C to +70°C
Operation		-40°C to +70°C
Storage		-40°C to +70°C

**Note:** All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be  $\leq 0.05$  dB/k

## Packing and Lengths

Drum Type	Length Multiple (km)	Short Lengths	Order Tolerance
Wooden Drums	2 Km + 5% or 4 Km + 5%	Max 5%, Customer Approval	± 5%

For additional information please contact your sales representative.

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