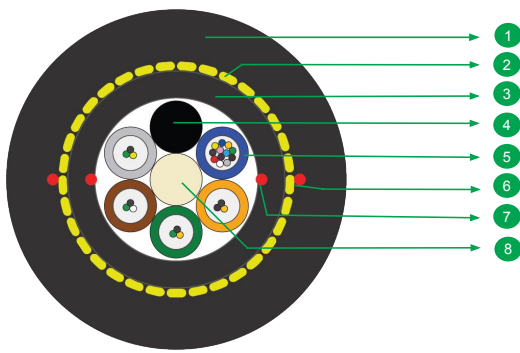


Multi Loose Tube ADSS

24F MLT Double Sheath ADSS OFC-80M Span



- | | | | |
|-------------------|-----------------------|----------------|-------------------|
| 1 OUTER JACKET | 2 ARAMID YARNS | 3 INNER JACKET | 4 FILLER |
| 5 GEL FILLED TUBE | 6 WATER BLOCKING TAPE | 7 RIPCORD(S) | 8 STRENGTH MEMBER |

** Typical construction diagram - Not to scale*

Features & Benefits

- Suitable for up to 80M spans with customizable design for wind and load conditions.
- Dry water-blocking technology enables fast and clean cable preparation.
- Rugged thermoplastic outer sheath is easy to strip and remove.
- Lightweight and flexible for easy handling and installation.
- High tensile strength and crush resistance for aerial durability.
- Double sheath construction for added mechanical protection.
- Rodent-resistant design for increased reliability in exposed environments.
- All-dielectric, self-supporting structure eliminates need for metallic support.

Product Details

Multi-tube Double Jacket ADSS (All-Dielectric Self-Supporting) cable is designed for reliable performance in aerial span applications, with the flexibility to transition seamlessly into duct or underground installations. Its core features a robust multi-tube structure housing the optical fibers, surrounded by evenly distributed high-strength aramid yarns that provide the required tensile strength for self-supporting deployment. This construction ensures excellent resistance to mechanical stresses such as wind pressure and temperature variations. The double-layered thermoplastic outer jacket offers superior protection against environmental and physical impacts, enhancing durability in harsh outdoor conditions. Being all-dielectric, the cable is free of metallic components, making it resistant to electromagnetic interference and ideal for installations near power lines. Engineered for strength, flexibility, and long-term reliability, this cable is a dependable solution for modern fiber optic networks.

Fibres and Cable Performance Standards

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

Printing Details

STERLITE 12F NOVA + 12F MCF ADSS 80M SPAN 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	12 Nos. of NOVA Fibres + 12 Nos. of MCF Fibres
Maximum Cabled Attenuation (dB/km)	1310nm : 0.4 & 1550nm : 0.3
Individual PMD (ps/sqrt.km)	≤ 0.2
PMD LDV (ps/sqrt.km)	≤ 0.1
Fibres per Tube	Nova – 12F / T MCF – 3F / T
Fibre Color Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
Central Strength Member	FRP (Fibre Reinforced Plastic)
No of Tubes in Layer 1	5
Tube Color Sequence	Nova : Blue, MCF : Orange, Green, Brown, Slate, Filler
No. of Fillers	1
Filler Material	Thermoplastic Material
Inner Sheath Material	Black Polyethylene
No of Ripcords Below Inner Sheath	2
Peripheral Strength Members	Aramid Yarns
Outer Sheath Material	UV Proof Black Polyethylene with anti-rodent masterbatch
No of Ripcords Below Outer Sheath	2
Nominal Cable Dimensions (mm)	12.5 \pm 0.5

Loading Conditions						
Operating Condition	Span Length(mts)	Installation Sag(%)	Ice Load(mm)	Wind Speed(km/hr)	Max. Installation Tension(N)	Max. Allowable Tension(N)
NESC Light	80	1	0	97	1100	2500

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	2500
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	3000
Impact Strength(Nm)	IEC-60794-1-21-E4	5
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	15 D
Repeated Bending	IEC-60794-1-21-E6	20 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	
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 ≤ 0.05 dB/ km for Single Mode fibre.

Packing and Lengths

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

For additional information please contact your sales representative.

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