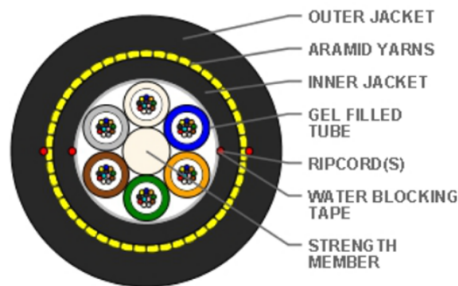


Advantage Fiber [ADSS] Multitube Double Sheath OFC

Product Details

AFN ADVANTAGE FIBER™ Multi-tube ADSS are designed having high tensile strength which makes them suitable for medium to long span applications. High strength yarns are evenly distributed over the core to provide the required tensile strength for aerial self-supporting applications. An overall thermoplastic jacket provides the cable with both mechanical and environmental protection. This cable is suitable for aerial to duct /underground transitions.

Construction Diagram



* Typical Construction Diagram - Not to Scale

Features & Benefits

- This cable can be designed to suit specific requirements of span length, wind speed and other loading conditions. Dry water-blocking technology for gel free core helps in quicker end preparation.
- Easily removable rugged thermoplastic jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant

Specifications

	Physical Characteristics
Fiber Count	72
Fiber Type	AFN Fiber ITU-T G.652 D
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD LDV (ps/sqrt.km)	< / = 0.1
Fibers per Tube	12
Fiber Color Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
Central Strength Member	FRP (Fiber Reinforced Plastic)
No of Tubes in Layer 1	6
Tube Color Sequence	Blue, Orange, Green, Brown, Slate, White
Inner Sheath Material	Black HDPE
No of Ripcords Below Inner Sheath	2
Peripheral Strength Members	High Strength Aramid Yarns
Outer Sheath Material	UV Proof Black HDPE
No of Ripcords Below Outer Sheath	2
Nominal Cable Dimensions (mm)	14.2±0.5
Nominal Cable Weight (kg/km)	150±10%

Mechanical & Environmental Characteristics

Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	10000
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
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 $\leq 0.15\text{ dB/km}$
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 $\leq 0.05\text{ dB/ km}$ for Single Mode Fiber and $\leq 0.3\text{ dB/km}$ for Multimode Fiber.

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 Medium	250	1	6.35	64	3000	10000

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, Telcordia GR-20, IEEE, ITU-T, RoHS, Reach.

Packing and Lengths

Drum Type : Wooden Drums
 Length Multiple : $\pm 5\%$
 (km) : $\pm 5\%$
 Order Tolerance : Max 5%, Customer Approval
 Short Lengths

Printing Details

Printing AFN SM 72F AERIAL 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.

Revision History

Revision No.	Date	Description
1.0	11-Sep-2020	Initial Issue

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