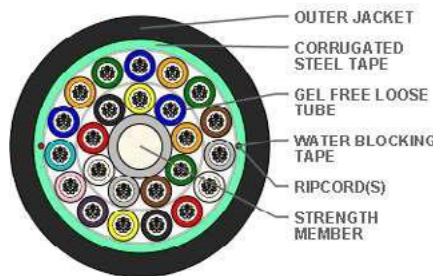


Product Name : 12-432F SM (NOVA) Armored Lite Multitube Gel Free Single Sheath OFC

Product Details

Sterlite Tech™ ARMOR-LITE® Gel Free Multitube Single Jacket Steel Tape Armored Cables are suitable for direct burial as well as for duct applications. In addition to optical fibers, the buffer tubes contain water swellable yarns and the cable core is surrounded with water-swellable tape to prevent water ingress in the interstices of cable core. Corrugated Steel Tape armor surrounds the cable core with thermoplastic jacket placed over the armor layer making the cable robust and installation friendly.

Construction Diagram



* Typical Construction Diagram - Not to Scale

Features & Benefits

- Steel tape armor and PE jacket provide rodent protection along with improved crush and impact protection
- The Steel tape enables post installation cable locating
- 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	12-432
Fiber Type	STL NOVA (ITU-T G.652D/ G.657A1)
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.25
PMD LDV (ps/sqrt.km)	</= 0.1
Fiber per Tube	12
Fiber Color Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tube Material	PP
Central Strength Member	FRP (Fibre Reinforced Plastic)
Metallic Armoring	Corrugated Steel Tape (Unbonded with Sheath)
No of Ripcords Below Tape	2
Outer Sheath Material	UV Proof Black Polyethylene

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Cable Characteristics						
Product Code	Fibre Count	No. of Tubes	Tube Color Sequence	Cable Diameter (mm ± 5%)	Cable Weight (kg/km ± 10%)	Max. Tensile Strength (N)
MA0012FSN01TFBUUS	12	1	Blue	12.6	145	2700
MA0024FSN02TFBUUS	24	2	Blue, Orange	12.6	145	2700
MA0036FSN03TFBUUS	36	3	Blue, Orange, Green	12.6	145	2700
MA0048FSN04TFBUUS	48	4	Blue, Orange, Green, Brown	12.6	145	2700
MA0072FSN06TFBUUS	72	6	Blue, Orange, Green, Brown, Slate, White	12.6	145	2700
MA0096FSN08TFBUUS	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	14.3	162	2700
MA0144FSN12TFBUUS	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	17.8	240	2700
MA0288FSN24TFBUUS	288	24	1st Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow 2nd Layer - Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#.	20.2	275	2700
MA0432FSN36TFBUUS	432	36	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White# 3rd Layer - Red#, Black#, Yellow#, Violet#, Pink#, Aqua#, Blue##, Orange###, Green###, Brown###, Slate###, White###, Red###, Black###, Yellow###, Violet###, Rose###, Aqua###.	22.2	358	2700

Note: # - denotes single black stripe marking via inkjet or co-extrusion, white stripe marking for black loose tube.## - denotes Double stripe marking.

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	As per above table
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 head, 3m samples, 24 hrs
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be $\leq 0.15\text{ dB/km}$
Installation		-30°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 fibre.

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Cable Performance Standards

Cable complies to the following standards IEC60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Packing and Lengths

Drum Type : Wooden Drums
 Length Multiple (ft.) : 20,000 ± 5% upto 288F & 13124 ± 5% for 432F
 Order Tolerance : ± 5%
 Short Lengths : Max 5%, Customer Approval

Printing Details

Printing : STERLITE SM FIBRE COUNT NOVA ARMORED LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE FEET/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.

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