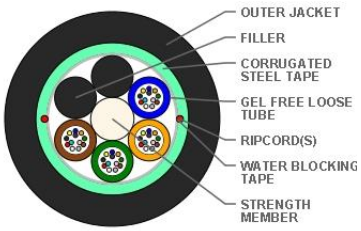
Product Name	: SM Armored Lite Multitube Gel Free Single Sheath OFC		
Revision	: 2.1	**Date**	: 4-Oct-2021

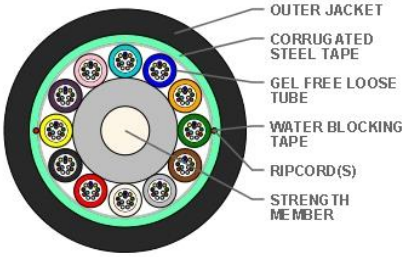
Product Details

STL ARMOR-LITE® Gel Free Multitube Single Jacket Steel Tape Armored Cables are suitable for direct burial as well as for duct applications. ARMOR-LITE comes with gel free technology, the buffer tubes contain water swellable yarns and the cable core is surrounded with water-swellable tape to prevent water ingress in the cable. The buffer tubes are stranded around the central strength member using reverse oscillation stranding method forming the cable core. A Corrugated Steel Tape armor surrounds the cable core with thermoplastic jacket placed over the armor layer making the cable robust and installation friendly.

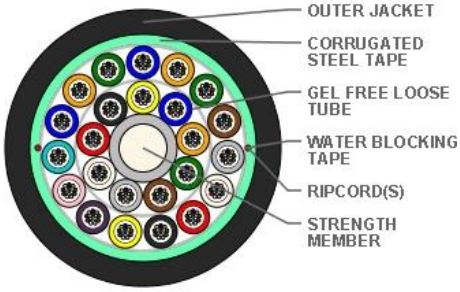
Construction Diagram



Cross Section 48f



Cross Section 144f



Cross Section 288f

* Typical Construction Diagram - Not to Scale

Features & Benefits

- PE outer jacket & Steel tape armor 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 un-bonded with steel tape
- Flexible, light weight, easy to handle & install

Specifications

Physical Characteristics	
Fiber Count	4~288
Fiber Type	STL NOVA (ITU-T G.657A1)
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.25
PMD LDV (ps/sqrt.km)	</= 0.1
Fibers per Tube	4|6|8|12
Fiber Color Sequence (as per TIA 598-D)	Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow,Violet,Rose,Aqua
Tube Material	Polypropylene (PP)
Loose tube Size	2.4 mm (typical)
Central Strength Member	FRP (Fiber Reinforced Plastic)
Filler	Thermoplastic material
Core Wrapping	Binder and water swellable tape
Metallic Armoring	Corrugated Steel Tape (Un-bonded with Sheath)
No of Ripcords Below Tape	2
Outer Sheath Material	UV Proof Black Polyethylene

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Cable Characteristics						
Product Code	**Fiber Count**	**No. of Tubes**	**Tube Color Sequence**	**No. of Fillers**	**Cable Diameter mm (inch) (± 5%)**	**Cable Weight Kg/Km (lbs./ft.) (± 10%)**
MA0004FSN01TFBUUS	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.6 (0.496)	145 (0.095)
MA0006FSN01TFBUUS	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.6 (0.496)	145 (0.095)
MA0008FSN01TFBUUS	8	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.6 (0.496)	148 (0.097)
MA0012FSN01TFBUUS	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.6 (0.496)	148 (0.099)
MA0024FSN02TFBUUS	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	12.6 (0.496)	146 (0.096)
MA0036FSN03TFBUUS	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	12.6 (0.496)	146 (0.096)
MA0048FSN04TFBUUS	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	12.6 (0.496)	140 (0.094)
MA0060FSN05TFBUUS	60	5	Blue, Orange, Green, Brown, Slate, Filler	1	12.6 (0.496)	140 (0.094)
MA0072FSN06TFBUUS	72	6	Blue, Orange, Green, Brown, Slate, White	0	12.6 (0.496)	136 (0.092)
MA0084FSN07TFBUUS	84	7	Blue, Orange, Green, Brown, Slate, White, Red, Filler	1	14.3 (0.562)	160 (0.107)
MA0096FSN08TFBUUS	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	14.3 (0.562)	160 (0.107)
MA0144FSN12TFBUUS	144	12	Blue,Orange,Green,Brown,Slate,White,Red, Black,Yellow,Violet,Rose,Aqua	0	17.8 (0.700)	265 (0.178)
MA0192FSN16TFBUUS	192	16	**1st Layer** - Blue, Orange, Green, Brown, Slate, White **2nd Layer** -Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Filler, Filler	2	17.8 (0.700)	234 (0.157)
MA0216FSN18TFBUUS	216	18	**1st Layer** - Blue, Orange, Green, Brown, Slate, White **2nd Layer** -Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate #, White#	0	17.8 (0.700)	221 (0.148)
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#.	0	20.2 (0.795)	275 (0.184)

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Mechanical & Environmental Characteristics		
Cable Characteristics	**Testing Standard**	**Cable Performance**
Tensile Strength (N)(lbf)	ICEA 640|FOTP-33	Short Term – 2700 (606.9) Long Term – 900 (202.3)
Crush Resistance (N/cm) (lbf/in)	ICEA 640|FOTP-41	300 (171)
Impact Strength (Nm)(lbf.in)	ICEA 640|FOTP-25	10 (88.5)
Torsion	ICEA 640|FOTP-85	±180º
Min. Bend Radius (During Installation)	ICEA 640|FOTP-88	20 D
Min. Bend Radius (After Installation)	ICEA 640|FOTP-88	15 D
Water Penetration Test*	ICEA 640|FOTP-82	1m head, 3m samples, 24 hrs.
Temperature Performance	ICEA 640|FOTP-3	Max. change in attenuation shall be </= 0.15 dB/km
Installation		-30° C to +70° C
Operation		-40° C to +70° C
Storage		-40° C to +70° C

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

****Water Penetration Test shall be applied between optical element and outer sheath and inside the optical element.***

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 Fiber.

Cable Performance Standards

Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Packing and Lengths

Drum Type : Wooden Drums
Length Multiple (ft.) : 13,123|20,000 ± 5%
Order Tolerance : -0%, +5%
Short Lengths : Max 5%, Customer Approval

Printing Details

Printing : STL SM NOVA "FIBER COUNT" ARMORED OFC LASER SYMBOL TELEPHONE SYMBOL "YEAR OF MANUFACTURE" "LENGTH CODE" "FEET 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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