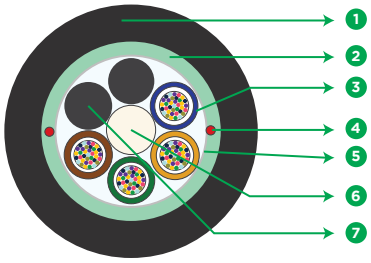
Product Specification

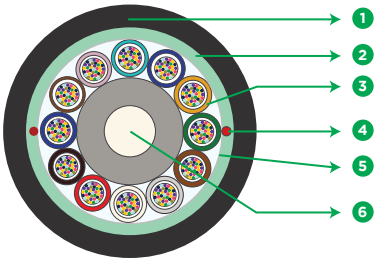
Armor-Lite

Multitube Gel Free Single Sheath Armored OFC
4F - 432F | Nova - G.657.A1 Single Mode Fiber

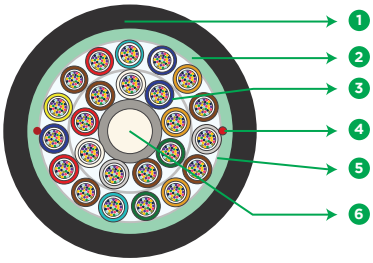
1. OUTER JACKET
2. CORRUGATED STEEL TAPE
3. GEL FREE LOOSE TUBE
4. RIPCORD(S)
5. WATER BLOCKING TAPE
6. STRENGTH MEMBER
7. FILLER



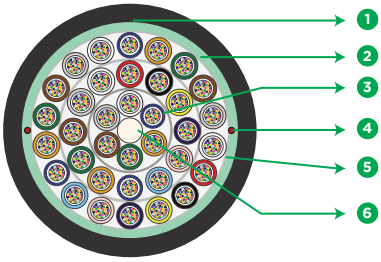
48F



144F



288F



432F

** 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

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.

Cable Performance Standards

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

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.

Specifications

Physical Characteristics	
Fiber Count	4~432
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
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

Fiber Color Sequence (AS per EIA/TIA 598C)											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

Specifications

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 (0.045)
MA0036FSN03TFBUUS	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	12.6 (0.496)	146 (0.045)
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)
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#, Rose #, Aqua#, Blue##, Orange##, Green##, Brown##, Slate##, White##, Red##, Black##, Yellow## Violet##, Rose##, Aqua##	0	23.4 (0.921)	350 (0.228)

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

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standard**
Tensile Strength (N) (lbf)	Short Term - 2700 (606.9) | Long Term – 900 (202.3)	ICEA 640 | FOTP-33
Crush Resistance (N/cm) (lbf/in)	300 (171)	ICEA 640 | FOTP-41
Impact Strength (Nm) (lbf.in)	10 (88.5)	ICEA 640 | FOTP-25
Torsion	±180°	ICEA 640 | FOTP-85
Min. Bend Radius (During Installation)	20 D	ICEA 640 | FOTP-88
Min. Bend Radius (After Installation)	15 D	ICEA 640 | FOTP-88
Water Penetration Test*	1m head, 3m samples, 24 hrs	ICEA 640 | FOTP-82
Temperature Performance	Max. change in attenuation shall be </= 0.15 dB/km	ICEA 640 | FOTP-3
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 </= 0.05 dB/km for Single Mode Fiber.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123; 20,000 ± 5% (For All Fiber Counts)	-0%, +5%	Max 5%, Customer Approval

For additional information please contact your sales representative.
You can also visit our website at www.stl.tech