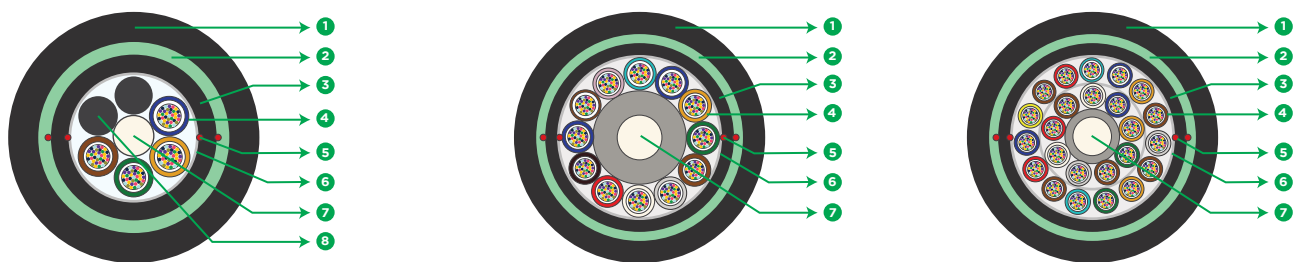


# Armor-Lite

Multitube Gel Free Double Sheath Armored OFC  
 4F - 288F | Nova - G.657.A1 Single Mode Fiber



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

\* 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
- Tensile and crush resistance

## Product Details

STL ARMOR-LITE Multitube Double 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 strand- ed around the central strength member using reverse oscillation stranding method forming the cable core. A Corru- gated 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, IEC 60794-5-10, 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	
<b>Fiber Type</b>	STL NOVA (ITU-T G.657A1)
<b>Maximum Cabled Attenuation (dB/km)</b>	1310nm : 0.35 & 1550nm : 0.25
<b>PMD LDV (ps/sqrt.km)</b>	</= 0.1
<b>Fibers per Tube</b>	4   6   12
<b>Tube Material</b>	Polypropylene (PP)
<b>Loose tube Size</b>	2.4 mm ( typical)
<b>Central Strength Member</b>	FRP (Fiber Reinforced Plastic)
<b>Filler</b>	Thermoplastic material
<b>Core Wrapping</b>	Binder and water swellable tape
<b>Inner Sheath Material</b>	Black Polyethylene
<b>Metallic Armoring</b>	Corrugated Steel Tape (Unbonded with Sheath)
<b>No. of Ripcords Below Outer Sheath</b>	2
<b>Outer Sheath Material</b>	UV Proof Black Polyethylene

### Fiber Color Sequence (AS per EIA/TIA 598C)

Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
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Cable Characteristics							
Product Code	Fiber Count	No. of Tubes	Tube Color Sequence	No. of Fillers	Cable Diameter mm (inch) (± 1.0 mm)	Cable Weight Kg/Km (lbs./ft.) (± 10%)	
DB0004FSN01TFB2US	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5	15.1 (0.59)	196 (0.131)	
DB0006FSN01TFB2US	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5	15.1 (0.59)	196 (0.131)	
DB0012FSN01TFB2US	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	15.1 (0.59)	198 (0.133)	
DB0024FSN02TFB2US	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	15.1 (0.59)	198 (0.133)	
DB0036FSN03TFB2US	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	15.1 (0.59)	198 (0.133)	
DB0048FSN04TFB2US	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	15.1 (0.59)	198 (0.133)	
DB0072FSN06TFB2US	72	6	Blue, Orange, Green, Brown, Slate, White	0	15.1 (0.59)	198 (0.133)	
DB0096FSN08TFB2US	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	16.8 (0.66)	222 (0.149)	
DB0144FSN12TFB2US	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	0	20.2 (0.79)	312 (0.209)	

## Specifications

Cable Characteristics						
Product Code	Fiber Count	No. of Tubes	Tube Color Sequence	No. of Fillers	Cable Diameter mm (inch) ( $\pm 1.0$ mm)	Cable Weight Kg/Km (lbs./ft.) ( $\pm 10\%$ )
DB0216FSN18TFB2US	216	18	<b>1<sup>st</sup> Layer</b> - Blue, Orange, Green, Brown, Slate, White, <b>2<sup>nd</sup> Layer</b> - Red, Black, Yellow Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#	0	20.2 (0.79)	306 (0.205)
DB0288FSN24TFB2US	288	24	<b>1<sup>st</sup> Layer</b> - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow <b>2<sup>nd</sup> Layer</b> -Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	0	22.8 (0.89)	368 (0.247)

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

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)	400 (228.4)	ICEA 640   FOTP-41
Impact Strength (Nm) (lbf.in)	25 (221.2)	ICEA 640   FOTP-25
Torsion	$\pm 180^\circ$	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 waterhead, 3m samples, 24 h	ICEA 640   FOTP-82
Temperature Performance	Max. change in attenuation shall be $\leq 0.15$ 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  $\leq 0.05$  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 $\pm 5\%$ (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](http://www.stl.tech)