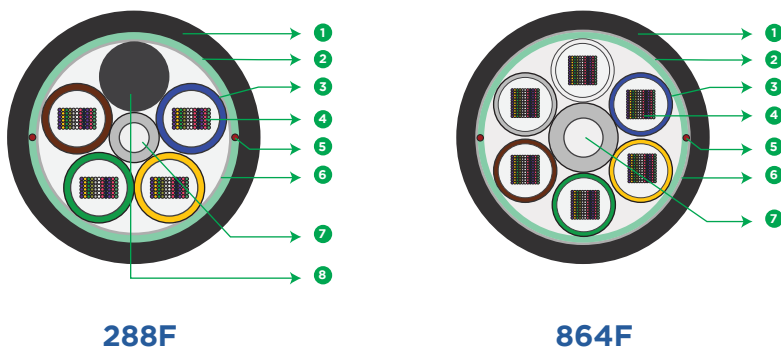


# Ribbon-Lite

Multitube Gel Free Single Sheath Armored OFC  
192F - 864F | Nova - G.657.A1 Single Mode Fiber



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

\* Typical Construction Diagram - Not to Scale

## Features & Benefits

- Multitube design with ripcords for easy and quick mid span access
- Precise fiber and ribbon geometries result in excellent mass fusion splicing yields
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Steel tape armor provides rodent protection along with improved crush and impact protection
- Easily removable rugged thermoplastic jacket

## Product Details

STL RIBBON-LITE Multitube Steel Tape Armored Cable combines robust performance for duct installations with the productivity of high-count mass fusion splicing. Twelve optical fibers are arranged into ribbon units by placing the fibers in a flat array of color coded fibers bonded together by a UV-curable acrylate matrix. RIBBON-LITE comes with gel free technology, the buffer tubes contain water swellable yarns and 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. 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, IEC 60794, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH, EIA/TIA 598C.

## Printing Details

Printing : STL SM NOVA “FIBER COUNT” RIBBON 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 : 0.4 & 1550nm : 0.3
<b>PMD LDV (ps/sqrt.km)</b>	</= 0.1
<b>Fibers per Ribbon</b>	12
<b>Ribbon Printing per Tube (4 Ribbon/Tube)</b>	BLUE SAFETY RIBBON, 1 RIBBON 1, 2 RIBBON 2, 3 RIBBON 3, 4 RIBBON 4, BLUE SAFETY RIBBON
<b>Ribbon Printing per Tube (6 Ribbon/Tube)</b>	BLUE SAFETY RIBBON, 1 RIBBON 1, 2 RIBBON 2, 3 RIBBON 3, 4 RIBBON 4, 5 RIBBON 5, 6 RIBBON 6, BLUE SAFETY RIBBON
<b>Ribbon Printing per Tube (12 Ribbon/Tube)</b>	BLUE SAFETY RIBBON, 1 RIBBON 1, 2 RIBBON 2, 3 RIBBON 3, 4 RIBBON 4, 5 RIBBON 5, 6 RIBBON 6, 7 RIBBON 7, 8 RIBBON 8, 9 RIBBON 9, 10 RIBBON 10, 11 RIBBON 11, 12 RIBBON 12, BLUE SAFETY RIBBON
<b>Tube Material</b>	Polypropylene (PP)
<b>Central Strength Member</b>	FRP (Fiber Reinforced Plastic)
<b>Water Blocking</b>	Yarns and water swellable tape
<b>Metallic Armoring</b>	Corrugated Steel Tape (Un-bonded 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	Tube Color Sequence	No. of Fillers	Cable Diameter mm (inch) (± 1.0 mm)	Cable Weight Kg/Km (lbs./ft.) (± 10%)
RA0192FSN04TFBUUS	192	Blue, Orange, Green, Brown, Filler	1	23.8 (0.937)	352 (0.236)
RA0216FSN03TFBUUS	216	Blue, Orange, Green, Filler, Filler	2	23.8 (0.937)	365 (0.245)
RA0288FSN04TFBUUS	288	Blue, Orange, Green, Brown, Filler	1	23.8 (0.937)	375 (0.251)
RA0432FSN06TFBUUS	432	Blue, Orange, Green, Brown, Slate, White	0	26.2 (1.03)	440 (0.295)
RA0576FSN04TFBUUS	576	Blue, Orange, Green, Brown, Filler	1	26.6 (1.04)	420 (0.282)
RA0720FSN05TFBUUS	720	Blue, Orange, Green, Brown, Slate, Filler	1	29.0 (1.14)	530 (0.356)
RA0864FSN06TFBUUS	864	Blue, Orange, Green, Brown, Slate, White	0	29.0 (1.14)	530 (0.356)

## 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)	5 (44.2)	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 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	Fiber count	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	Upto 360F	13,123; 20000 $\pm$ 5%	-0%, +5%	Max 5%, Customer Approval
	432F- 864F	10,000 $\pm$ 5%		

**For additional information please contact your sales representative.**

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