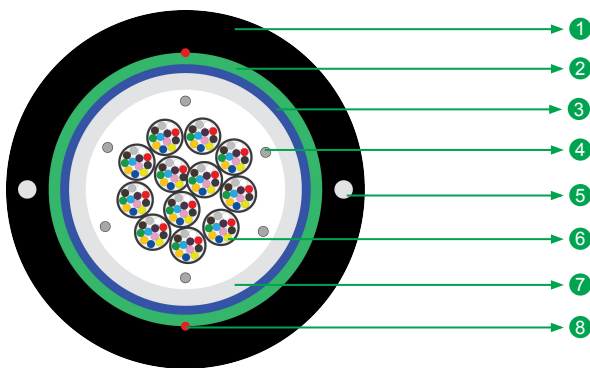


SM CELESTA Armored Lite

288F Untiube Armored Gel Free Single Sheath OFC



1 OUTER SHEATH

2 CORRUGATED ECCS TAPE

3 WATER BLOCKING TAPE

4 WATER SWELLABLE YARNS

5 EMBEDDED STRENGTH MEMBER

6 INTERMITTENTLY BONDED RIBBONS (IBR)

6 BUFFER TUBE

8 RIPCORD

* Typical construction diagram - Not to scale

Features & Benefits

- Ribbon cable can be prepared and spliced rapidly.
- Precise Fiber and ribbon geometries result in excellent mass fusion splicing yields.
- Fiber ribbons are individually marked for easy identification
- Lower diameter cable as compared to conventional flat ribbon
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Steel tape adds to crush resistance as well as can be used as a cable locator after installation
- Easily removable rugged thermoplastic jacket
- UV protected, Flexible, light weight, easy to handle & install

Product Details

STL CELESTA® Unitube Single Jacket Steel Tape Armored Cable combines robust performance for duct as well as direct buried installations with the productivity of high-count mass fusion splicing. The optical fibers are arranged into ribbon units by placing the fibers in a bunch of color-coded fibers partially bonded together by a UV-curable acrylate matrix. CELESTA comes with gel free technology; with water swellable yarns or water blocking binders around the fibres & water-swellable tape or water swellable yarns below the armoring to prevent water ingress in the cable. Corrugated Steel Tape armor surrounds the sheath making the cable robust and installation friendly.

Fibres and Cable Performance Standards

Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, ITU-T, RoHS, REACH, EIA/TIA-598C.

Specifications

Physical Characteristics	
Fiber Type	ITU-T G.657.A1
Maximum Cabled Attenuation (dB/km)	1310nm : 0.4 & 1550nm : 0.3
PMD LDV (ps/sqrt.km)	<= 0.1
Fibers per Ribbon	12
Tube Material	Polypropylene
Water Blocking	Water swellable yarns/ water blocking type binders/ water blocking tape
Metallic Armoring	Corrugated Steel Tape (Un-bonded with Sheath)
No of Ripcords	2 below ECCS tape
Embedded Strength Member	Steel wires
Outer Sheath Material	UV Proof Black MDPE

Fiber Color Sequence											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Turquoise

Cable Characteristics				
No. of Fibers	Bundling of Ribbons(Bunch X Fiber)	Tube color	Cable Diameter mm (inch) (+10%)	Cable Weight Kg/Km (lbs./ft) (+10%)
288	1 X 288	White	14.0 (0.551)	180 (0.120)

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard Method	Cable Performance
Tensile Strength (N) (lbf)	ICEA 640 FOTP-33	Short Term – 2700 (607) Long Term – 900 (202.3) (or 0.3*short term tensile)
Crush Resistance (N/100 mm) (lb./inch)	ICEA 640 FOTP-41	3000 (171)
Impact Strength(Nm) (lb. Inch)	ICEA 640 FOTP-25	5 (44.2)
Torsion	ICEA 640 FOTP-85	±180°
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 waterhead, 3m samples, 24 h
Temperature Performance	ICEA 640 FOTP-3	Max. change in attenuation shall be <=/= 0.15 dB/km at 1550nm
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 by ICEA-640

Packing and Lengths

Drum Type	Length Multiple (ft.)	Order Tolerance
Wooden Drums	10,000/20,000 ± 5%	± 5%

Printing Details

STL CELESTA IBR ARMOR-LITE OFC 288F SM G657A1 TELEPHONE SYMBOL MONTH(MM)/ YEAR(YYYY) LENGTH CODE FEET MARKING(XXXXX)
FT MADE IN USA

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.

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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