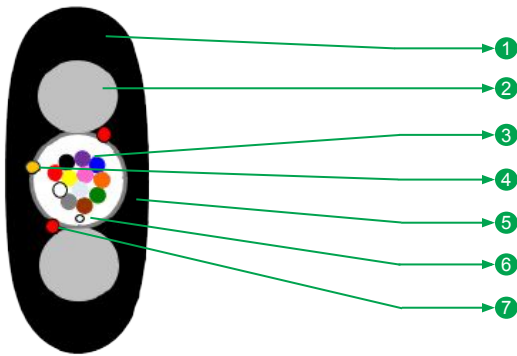


Celesta™

Flat Drop Outdoor Stellar 250 Gel Free PE OFC
12F-24F-48F



1 OUTER SHEATH

2 EMBEDDED STRENGTH MEMBER

3 IR RIBBONS

4 ARAMID YARNS

5 GEL FREE LOOSE TUBE

6 WATER SWELLABLE YARN

7 RIPCORD(s)

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Embedded strength members for anti-buckling properties
- All dry design for easy and fast end preparation
- Easy access to Fiber due to its Unitube construction
- Tensile and crush resistant
- UV protected

Product Details

STL Celesta Flat Drop Dielectric Fiber Optic Cable offers the ease of installation in an easy access, single-tube design. This cable has optical Fibers presented in dry tube filled with water swellable yarns and is enclosed in a thermoplastic sheath. The cables have two embedded strength members for anti-buckling property. The dielectric version eliminates any bonding and grounding requirements.

Fibres and Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ANSI/ICEA S-110-717, Telcordia GR-20, ITU-T, RoHS, REACH.

Printing Details

STERLITE SM "FIBER TYPE" "FIBER COUNT" CELESTA FLAT DROP OFC LASER SYMBOL TELEPHONE SYMBOL "MM/YYYY" "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	
Fibre Type	STL Stellar Fiber (Comply ITU-T G.657.A1/G.657.A2 & G.652.D)
Maximum Cabled Attenuation (dB/km)	1310nm: 0.4, 1550nm: 0.3 & 1625nm: 0.4
PMD LDV (ps/sqrt.km)	</= 0.1
Type of Ribbon	Intermittently Bonded Ribbon (IBR)
Fibers per IB Ribbon	12
Fiber Color Sequence in IB Ribbon	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Strength Member	High strength aramid yarns along with fibres
Water Blocking	Water Swellable Yarns
No of Tubes	1
Tube Color	Black
Outer Sheath Material	UV Proof Black Polyethylene

Cable Characteristic				
Product Code	Fibre Count	No of Ribbons	Cable Diameter mm (inch) (± 0.3)	Cable Weight Kg/Km (lbs./ft.) (± 10%)
U20012C101FAP10100	12	1	4.1 x 8.2 (0.161 x 0.322)	32 (0.021)
U20024C101FAP10100	24	2	4.1 x 8.2 (0.161 x 0.322)	32 (0.021)
U20048C101FAP10100	48	2	5.0 x 9.0 (0.196 x 0.35)	40 (0.026)

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard Method	Cable Performance
Tensile Strength (N) (lbf)	ICEA 110-717 FOTP-33	1336 N (300.3)
Crush Resistance (N/100 mm) (lbf/in)	ICEA 110-717 FOTP-41	500 (28.55)
Impact Strength (Nm) (lbf.in)	ICEA 110-717 FOTP-25	5 (44.2)
Torsion	ICEA 110-717 FOTP-85	±180°
Min. Bend Radius (During Installation)	ICEA 110-717 FOTP-88	20 D
Min. Bend Radius (After Installation)	ICEA 110-717 FOTP-88	15 D
Water Penetration Test	ICEA 110-717 FOTP-82	1m waterhead, 3m samples, 24 h
Temperature Performance	ICEA 110-717 FOTP-33	Max. change in attenuation shall be ≤ 0.4 dB/km at 1550nm
Installation		-30°C to +70 °C
Operation		-30°C to +70°C
Storage		-40°C to +70°C

Note 2: All tests shall be carried out as per ICEA 110-717 standards, the change in attenuation shall be ≤ 0.4 dB at 1550 nm

Packing and Lengths

Drum Type	Length Multiple (in km)	Order Tolerance	Short Lengths
Wooden Drums	2 4 6 (6561.6 13,123 20,000)ft ± 5%	±5%	Max 5%, Customer Approval

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

R1.4/0624

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