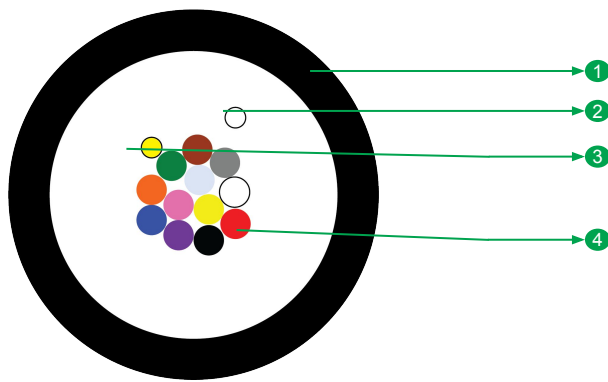


Celesta™

Air Blown Outdoor Stellar 250 Gel Free PP Single Jacket OFC
12F-24F-48F



1 OUTER JACKET

2 WATER SWELLABLE YARNS

3 ARAMID YARNS

4 RIBBON OF 12 FIBRES

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Small size, fast cable termination and easy cable management.
- Optimum solution for last mile application.
- Provides comparable better crush and impact resistance.

Product Details

STL Celesta Air blown Fibre Optic cable is generally used in FTTx applications. It features lightweight and small diameter specifically designed for metro feeder or access networking, especially suitable for air-blowing installations into single or bundled micro ducts.

Fibres and Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ANSI/ICEA S-122-744, Telcordia GR-20, ITU-T, RoHS, REACH, EIA/TIA-598C.

Printing Details

STERLITE SM 'FIBRE COUNT' 'FIBRE TYPE' CELESTA AIR BLOWN LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE FEET/METER MARKING

Note: The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bellcore GR 20, and this supersedes the earlier markings.

Specifications

Physical Characteristics

Fibre Type	STL Stellar Fiber
Maximum Cabled Attenuation (dB/km)	1310nm: 0.4, 1550nm: 0.3
PMD LDV (ps/sqrt.km)	≤ 0.2
Type of Ribbon	Intermittently Bonded Ribbon (IBR)
Fibers per IB Ribbon	12
Fibre Color Sequence in IB Ribbon	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
Strength Member	High Strength Aramid Yarn along with Fibres

Cable Characteristic

Product Code	Fibre Count	No of Ribbons	Cable Diameter mm (inch) (± 0.3)/ (0.01 inch)	Cable Weight kg/km (lbs./ft.) ($\pm 10\%$)
U20012C101FAR10000	12	1	3.0 (0.11)	6 (0.0040)
U20024C101FAR10000	24	2	3.0 (0.11)	6.5 (0.0043)
U20048C101FAR10000	48	4	4.3 (0.17)	9.5 (0.0064)

Mechanical & Environmental Characteristics

Cable Characteristics	Testing Standard Method	Cable Performance
Tensile Strength (N) (lbf)	ICEA 122-744 FOTP-33	Max. Installation Load: 111 (24.95) Max. Operational Load: 36 (8.09)
Crush Resistance (N/100 mm) (lbf/in)	ICEA 122-744 FOTP-41	800 (45.68)
Impact Strength (Nm) (lbf.in)	ICEA 122-744 FOTP-25	1 (8.85)
Torsion	ICEA 122-744 FOTP-85	$\pm 180^\circ$, 100 N
Min. Bend Radius (During Installation)	ICEA 122-744 FOTP-88	20D
Min. Bend Radius (After Installation)	ICEA 122-744 FOTP-88	10D
Water Penetration Test	ICEA 122-744 FOTP-82	1m waterhead, 3m samples, 24 h
Temperature Performance	ICEA 122-744 FOTP-3	Max. change in attenuation shall be ≤ 0.15 dB/km
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 standards. Change in attenuation after and before testing shall be ≤ 0.05 dB/km

Packing and Lengths

Drum Type	Length Multiple (in km)	Order Tolerance	Short Lengths
Plywood	4 6 (13123 20000) $\pm 5\%$	$\pm 5\%$	Max 5%, Customer Approval

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

R1.4/0724

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