

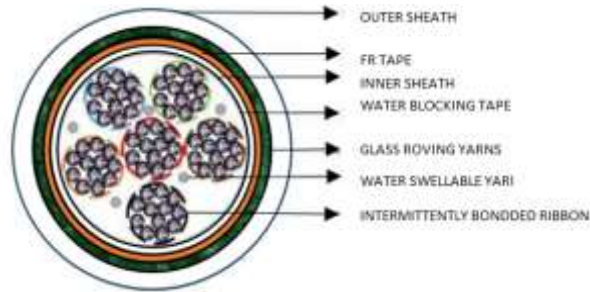
Product Name : Celesta I/O SJ GRY G.657 A2 Gel Free LSZH OFC
Revision : 1.9

Date : 09-May-2024

Product Details

STL’s Celesta Intermittent Bonded Ribbon Cable combines robust performance for duct installations with the productivity of high-count mass fusion splicing. The innovative ribbon bond design results in dense fibre packing and smaller cable diameter. This cable offers an outstanding solution for demanding high-growth, high-bandwidth communications applications like data centres, equipment connections within cabinets, outside plant applications.

Construction Diagram



* Typical Construction Diagram - Not to Scale

Features & Benefits

- Special bend insensitive fibre results in increased power budget and network serviceability
- Unique cable design allows deployment by blowing and pulling.
- Innovative Color-coded bonded design for easier and faster Ribbon identification
- Black Printing for easier and faster Ribbon identification
- Precise fibre and ribbon geometries result in excellent mass fusion splicing yields
- Multiple ribbon bundles design with ripcords for easy and quick mid-span access
- Dry water-blocking technology for gel free core helps in quicker end preparation.
- Fire Performance in compliance with CPR Euro Class Cca and above.

Specifications

Physical Characteristics	
Fibre Type	STL HD A2 250um Fibre (ITU-T G.657 A2)
Maximum Cabled Attenuation (dB/km)	1310nm: 0.4 & 1550nm: 0.3
PMD LDV (ps/sqrt.km)	</= 0.2
Ribbon Type	Intermittently Bonded Ribbon (IBR)
Fibre per IB Ribbon	12
Tube Color	White
Water Blocking Elements	Yarns and Water Swellable Tape
Fire retardant tape	For Fire Protection
Peripheral Strength Member	A layer of GRY (Glass Roving Yarns)
No of Ripcords Below Outer Sheath	2
Outer Sheath Material	UV Stabilized White LSZH

Cable Characteristics						
Product Code	Fibre Count	Bundling of Ribbons (Bundle X Fibre)	Unit Binder Color	Cable Diameter mm (± 0.5)	Cable Weight Kg/Km (+10%)	Tensile Strength N
R30072S201FAL100J5	72	1X72	Blue	12.7	160	1360
R30096S201FAL100J5	96	1X96	Blue	13.0	170	1360
R30144S201FAL100J5	144	1X144	Blue	13.7	180	1360
R30288S201FAL100J5	288	1X288	Blue	15.2	215	1360
R30432S203FAL100J5	432	3X144	Blue, Orange, Green	18.2	380	1360
R30576S204FAL100J5	576	4X144	Blue, Orange, Green, Brown	19.4	475	1360
R30864S206FAL100J5	864	6X144	Blue, Orange, Green, Brown, Slate, White	20.0	700	1360
R31008S207FAL100J5	1008	7X144	Blue, Orange, Green, Brown, Slate, White, Red	22.8	830	1360

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	1000
Impact Strength (Nm)	IEC-60794-1-21-E4	5
Torsion	IEC-60794-1-21-E7	$\pm 180^\circ$
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	15 D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24 h
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be ≤ 0.15 dB/km
Installation		-10 °C to +60 °C
Operation		-30 °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 ≤ 0.1 dB/km

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, CPR, RoHS, REACH.

Packing and Lengths

Drum Type	: Wooden Drums
Length Multiple (km)	: $2 \pm 5\%$
Order Tolerance	: $\pm 5\%$
Short Lengths	: Max 5%, Customer Approval

Printing Details

Printing	: STERLITE SM "FIBRE COUNT" "FIBRE TYPE" CELESTA ISP/OSP OFC LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING
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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.

