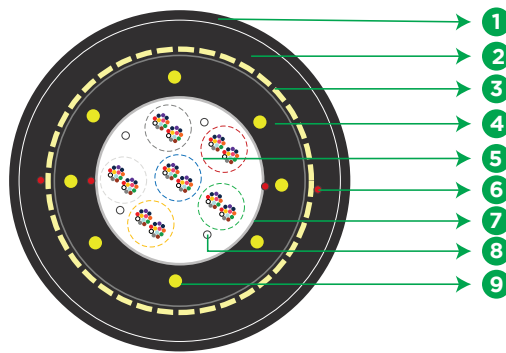


Celesta

OSP DJ FRP Armored “ZF” G.657 A2 250 “nF”x “yB”
Gel Free PE+PA OFC



1 NYLON JACKET

4 INNER PE SHEATH

7 WATER BLOCKING TAPE

2 OUTER PE SHEATH

5 12FIBER INTERMITTENTLY BONDED RIBBON

8 WATER SWELLABLE YARNS

3 FLAT FRP ARMORING

6 RIPCORDS

9 EMBEDDED STRENGTH MEMBER

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Flat FRP dielectric armoring provides additional protection against crush and impact and protection against rodent attacks
- Bend insensitive fibre improves installation, maintenance, and network performance
- Ribbon structure allows for mass fusion splicing of 12 fibres in one step
- Dry water-blocking technology to enable quicker preparation
- Multiple ribbon bundles design with ripcords for easy and quick mid-span
- Resistant to termite attacks

Product Details

STL's Celesta ribbon FRP Armoured double cable combines robust performance typically used for outside plant (OSP) applications installation with the productivity of high-count mass fusion splicing.

Suitable for directly buried by cable plough and open trench installation methods in harsh. The innovative intermittently bonded design results in dense fibre packing and the ribbon matrix itself can be easily furcated into a stranded fibre if required. Available from as low as 12 fibre up-to 6912 fibre counts, the cable offers an outstanding solution for outside plant high density Distribution.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH, EIA/TIA-598C.

Printing Details

Printing : STERLITE SM “FIBER COUNT” “FIBER TYPE” CELESTA IBR FRP ARMORED OFC LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER 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 | |
|--|--|
| Fiber Type | STL Bow-Lite (E) ITU-T G.657A2 |
| Maximum Cabled Attenuation (dB/km) | 1310nm : 0.4 & 1550nm : 0.3 |
| PMD LDV (ps/sqrt.km) | ≤ 0.2 |
| Ribbon Type | Intermittently Bonded Ribbon (IBR) |
| Fiber per IB Ribbon | 12 |
| Ribbon Pitch | 250um |
| Fiber Color Sequence in Ribbon (TIA 598C) | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Water Blocking Elements | Yarns and Water Swellable Tape |
| No. of Ripcords | 2 |
| Peripheral Strength Member | Aramid Reinforced Plastic (ARP) Embedded in inner Sheath |
| Inner Sheath Material | UV Resistant Black Polyethylene |
| Dielectric Armoring | Flat FRP for Dielectric Armoring |
| Outer Sheath Material | UV Resistant Black Polyethylene |
| Outer Jacket Material | UV Stabilized Black Nylon [Un-bonded to PE sheath] |

| Cable Characteristics | | | | | | |
|------------------------|---------------|--------------------------------------|--|---------------------------------|---------------------------------------|-------------------------|
| Product Code | No. of Fibers | Bundling of Ribbons (Bundle x Fiber) | Binder Unit Color | Cable Diameter mm (inch) (± 5%) | Cable Weight Kg/Km (lbs./ft.) (± 10%) | Length Multiple (+/-5%) |
| CR0288FC104BFPNAUFRPAR | 288 | 4 x 72 | Blue, Orange, Green, Brown | 17.5 | 255 | 4 |
| CR1728FC106BFPNAUFRPAR | 1728 | 6 X 288 | Blue, Orange, Green, Brown, Slate, White | 29.2 | 625 | 2 |

Specifications

| Mechanical & Environmental Characteristics | | |
|--|---|---------------------|
| Cable Characteristics | Cable Performance | Testing Standard |
| Tensile Strength (N) | 3000 | IEC-60794-1-21-E1 |
| Crush Resistance (N/100 mm) | 4000 | IEC-60794-1-21-E3 |
| Impact Strength (Nm) | 10 | IEC-60794-1-21-E4 |
| Torsion | ±180° | IEC-60794-1-21-E7 |
| Min. Bend Radius | 20 D | IEC-60794-1-21-E11 |
| Water Penetration Test* | 1m waterhead, 5m samples, 24 h (For Inner PE) | IEC-60794-1-22-F5 C |
| Temperature Performance | Max. change in attenuation shall be \leq 0.15 dB/km | IEC-60794-1-22-F1 |
| 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 0.1 dB for Single Mode Fiber.

IBR Identification Printing and Color Sequence

Fiber Color Sequence per IBR

| | | | | | | | | | | | |
|------|--------|-------|-------|-------|-------|-----|-------|--------|--------|------|------|
| Blue | Orange | Green | Brown | Slate | White | Red | Black | Yellow | Violet | Pink | Aqua |
|------|--------|-------|-------|-------|-------|-----|-------|--------|--------|------|------|

Bunch Binder Color (binder in pairs)

| | | | | | |
|------|--------|-------|-------|-------|-------|
| Blue | Orange | Green | Brown | Slate | White |
|------|--------|-------|-------|-------|-------|

Printing on IBR

Denotes '1'

3 mm

3 mm

Denotes '5'

3 mm

5 mm

Pictorial view of Printing on IBR

24

5 mm 5 mm 5 mm

12 IBR RIBBON

< 200 mm < 200 mm

Packing and Lengths

| Drum Type | Length Multiple (feet) | Order Tolerance | Non-standard Length |
|--------------|------------------------|-----------------|----------------------------|
| Wooden Drums | As per above table | ± 5% | Max 20%, Customer Approval |