

celesta

Intelligently Bonded Ribbon

432F | G.657.A2 Single Mode Fibre



Duct



Quick Splice



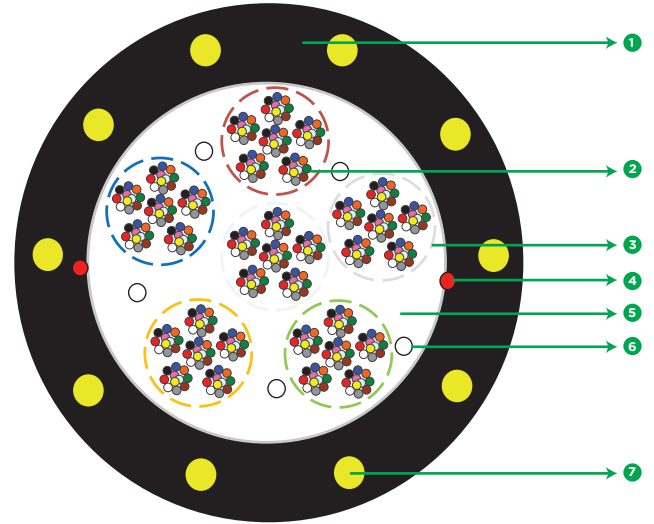
Totally Dielectric



Water Blocked



UV Protected



- 1 OUTER SHEATH**
- 2 12 FIBRE RIBBONS IN BUNDLES OF 6 RIBBONS**
- 3 6 BUNDLES**
- 4 RIPCORDS**
- 5 WATER BLOCKING TAPE**
- 6 WATER SWELLABLE YARNS**
- 7 EMBEDDED STRENGTH MEMBER**

Typical Construction Diagram - Not To Scale

Features & Benefits

- High density Ribbon cable can be easily air blown inside a 20mm duct
- Special bend insensitive fibre results in increased network serviceability due to improved power budget
- Innovative Colour coded bonded design 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

Product Details

STL's Celesta Ribbon Cable combines robust performance for duct installations with the productivity of high-count mass fusion splicing. The innovative 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 centers, equipment connections within cabinets, outside plant applications

Cable Performance Standards

Cable complies to the following standards IEC 60794-5-10, GR-20, ITU-T, RoHS, REACH

Printing Details

Printing : STL SM 432F G657A2 LASER SYMBOL TELEPHONE SYMBOL CELESTA RIBBON
DUCT CABLE MONTH & YEAR OF MFG. LENGTH CODE METER MARKING

Note : The accuracy of marking shall be + 1.0%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

Specifications

PRODUCT INFORMATION					
Fibre Type		STL Fibre ITU.T - G657A2			
Maximum Cabled Fibre Attenuation dB/Km		1310nm : 0.35; 1550nm : 0.23 & 1625nm : 0.25			
Max Individual Fibre PMD		≤ 0.2 ps/ √km			
PMDq		≤ 0.1 ps/ √km			
Ribbon					
Ribbon Type		Intermittently bonded ribbon			
Fibres per Ribbon		12 Nos	Fibre diameter 250 um/ Pitch 250um		
Ribbons identification		Color coded ribbon matrix/Band Stripe Marking			
No. of Ribbons		36 Nos			
Bundling of Ribbon		6 No's X 72F	Colored binder yarns		
Cable					
Rip Cord		2 Nos	Twisted yarns for easy stripping		
Water Blocking Elements		Water Swellable Yarns to prevent Water ingress in Cable			
Water Blocking Tape		To Cover the Ribbon bundle and Water Protection			
Embedded Strength Member		Aramid Reinforced Plastic (ARP) to provide tensile strength and antibuckling properties.			
Outer Sheath		UV Proof Black Polyethylene			
OPTICAL FIBRE CABLE PERFORMANCE					
MECHANICAL				ENVIRONMENTAL *Temp. Performance(2 Cycles)	
Max. Tensile strength	1500 N	Crush Resistance	1000 N / 10cm	Installation	-30°C to + 60°C
Bend Diameter	20XD	Impact Load	10 Nm.	Operation	-40°C to + 70°C
		Torsion	± 180°, 100N	Storage & Transport	-40°C to + 70°C
Water Penetration	1m head, 3m samples, 24 hrs as per IEC 60794-1-22, method F5C				
COLOUR DETAILS					
Optical Fibre Colour	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise				
Ribbon Identification	Individual Ribbon shall have Stripe mark or colored bonded matrix				
Unit Binder Colour	Blue, Orange, Green, Brown, Grey, White				
Sheath Colour	Black				

Note : Cable design and test criteria shall be as per IEC 60974-5-10, GR-20,*Max Change in Attenuation shall be ≤0.15dB/km@1550nm.

PHYSICAL PARAMETERS

Cable Diameter (mm) [Ovality 5%]	Cable Weight. (Kg/km)	Cable Length
12.7 ± 0.3mm	104 kg/km	2Km ± 5%

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For additional information please contact your sales representative.

You can also visit our website at www.stl.tech or e-mail at stl.communications@stl.tech