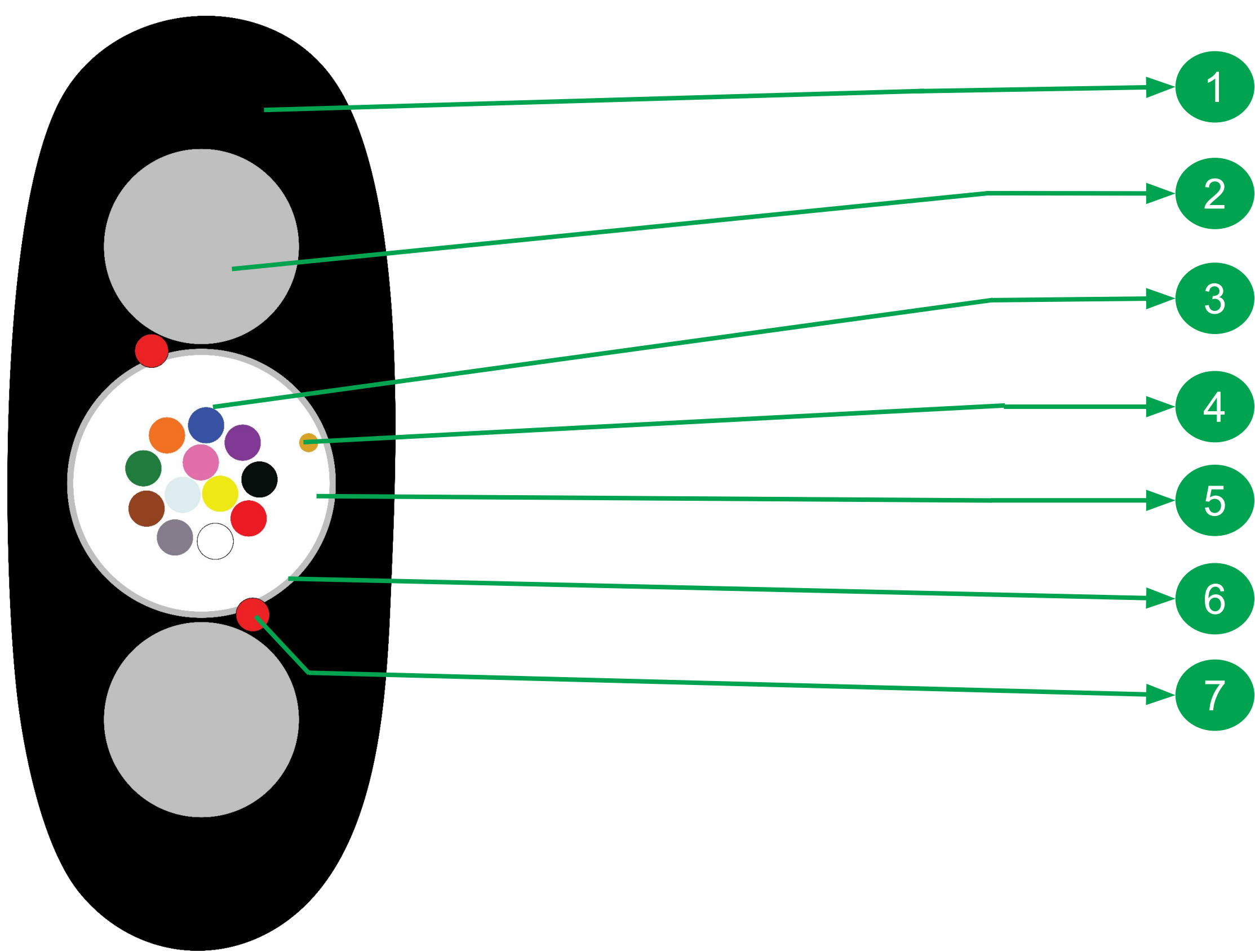




Celesta (IBR) Flat Drop OSP

G.657 A2 250 Gel Free PE OFC



- 1 OUTER SHEATH 2 EMBEDDED STRENGTH MEMBER 3 IBR RIBBONS 4 ARAMID YARN 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 IBR 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.

Fibers 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 Bellcore GR 20, and this supersedes the earlier markings.

Specifications

Physical Characteristics	
Fiber Type	ITU-T G.657.A2
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
Fibers per Ribbon	12
Fiber Color Sequence in Ribbon	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Strength Member	High strength aramid yarns along with Fibers
Water Blocking	Water Swellable Yarns
No of Tubes	1
Water Blocking	Black Polyethylene
Tube Color	Black
Outer Sheath Material	UV Proof Black Polyethylene

Cable Characteristics				
Product Code	No. of Fibers	No. of Ribbons	Cable Diameter mm (± 0.3) (inch) (±0.011)	Cable Weight Kg/Km (lbs./ft.) (± 10%)
U20012bb01FAP10100	12	1	4.1 x 8.2 (0.161 x 0.322)	32 (0.021)
U20024bb01FAP10100	24	2	4.1 x 8.2 (0.161 x 0.322)	32 (0.021)
U20048bb01FAP10100	48	4	5.0 x 9.0 (0.196 x 0.35)	40 (0.026)

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N) (lb.)	ICEA-717 FOTP-33	1336 N (300.3)
Crush Resistance (N/100 mm) (lb./inch)	ICEA-717 FOTP-41	500 (28.55)
Impact Strength(Nm) (lb. Inch)	ICEA-717 FOTP-25	5 (44.2)
Torsion	ICEA-717 FOTP-85	±180°
Min. Bend Radius (During Installation)	ICEA-717 FOTP-88	20 D
Min. Bend Radius (After Installation)	ICEA-717 FOTP-88	15 D
Water Penetration Test	ICEA-717 FOTP-82	1m waterhead, 3m samples, 24 h
Temperature Performance	ICEA-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: All tests shall be carried out as per ICEA 717 standards, the change in attenuation shall be </= 0.4 dB at 1550 nm

Packing and Lengths

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

Ordering Information

Optical fiber cable in other fiber types may be available on request, please create product code from the table below. Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Product type (aa)		Fiber count				Fiber type (bb)		No. of active tubes		Cable core type (c)	Fibers colour code (d)	Jacket/ Sheath type (ee)		Running number		Special Request (ff)	
1		2				3		4		5	6	7		8		9	
-	-	-	-	-	-	-	-	-	-	F	A	-	-	0	0	0	0

Create the desired Product Code following the instructions below:

1. aa - Product Type

Code	Product Type
U2	IBR Flat Drop

2. Fiber count by indicating the corresponding number from 0012 to 0048
3. bb - Fiber code corresponding to requested fiber type among following options

Fiber Code	Fiber type (ITU-T)	STL’s Fiber Name	Mode Field Diameter MFD ±0.4 (µm) at 1310 nm
S2	G.657.A2	HD A2 250	8.6

4. Number of active tubes : 01 to 06
5. c - Cable Core Type

Code	Core Type
F	Dry tube/ Dry Core

6. d - Fiber Color Code

Code	Fiber Color Code
A	A- EIA/TIA 598 C- Blue to Aqua

7. ee - Jacket Type

Code	Sheath Type
P1	Polyethylene (PE)

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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