SST-Ribbon™ Gel-Free Cables

An Evolant® Solutions Product

Description

Corning Cable Systems SST-Ribbon™ Gel-Free Cables represent a truly innovative breakthrough in outside plant cable technology and introduce a new generation of totally dry (gel-free) cables. The cable consists of a single buffer tube that contains a stack of up to eighteen 12-fiber ribbons wrapped within a water-swellable foam tape. This central buffer tube is surrounded by a second water-swellable tape. Dielectric or steel strength members located 180 degrees apart under the cable jacket provide tensile and anti-buckling strength. The cable is jacketed with a black UV-resistant polyethylene sheath. Armored cables include a copolymer-coated corrugated steel tape armor layer.
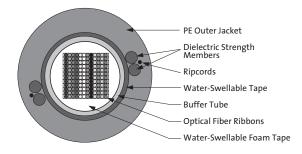

SST-Ribbon Gel-Free All-Dielectric Cable | Photo CLT58

Features / Benefits

• SST-Ribbon Gel-Free Cables provide up to 216 fibers in a compact, rugged design

• All fiber counts and jacket options will easily fit in 1.0-inch inner diameter or larger inner-duct

• Completely gel-free design contains no messy filling or flooding compounds, thereby eliminating time and labor associated with cleaning ribbons, keeping work and splicing areas cleaner and simplifying splice preparation

• Patented enhanced coupling features ensure the ribbon stack and cable act as one unit, providing long-term reliablity in aerial, duct and direct-buried applications and minimizing ribbon movement in situations where cable vibration may occur

• Compatible with standard ribbon cable procedures and hardware

• Easily accessible individual fibers

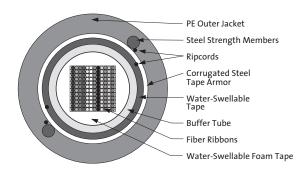• 12-fiber ribbons with readily identifiable ribbon IDs and fiber colors

SST-Ribbon Gel-Free All-Dielectric Cable | Drawing ZA-2110

SST-Ribbon Gel-Free Single-Armored Cable | Drawing ZA-675

• Precise fiber and ribbon geometries result in excellent mass-splicing yields

• Meets industry standards including ICEA-640, IEC 60794-1-2, Telcordia GR-20, and is listed with RDUP (formerly RUS)

CORNING

Evolant®
Solutions

Product Specifications

SST-Ribbon™ Gel-Free Cables

An Evolant® Solutions Product

Specifications

Maximum Tensile Loads	Short-Term: Long-Term:	2700 N (600 lbf) 890 N (200 lbf)
Temperatures	Storage: Installation: Operation:	-40° to +70°C (-40° to +158°F) -30° to +70°C (-22° to +158°F) -40° to +70°C (-40° to +158°F)
Approvals and Listings	RDUP PE-90	
Common Installation	Outdoor aerial, duct and direct-buried; indoor when installed according to NEC® Article 770	
Design and Test Criteria	ANSI/ICEA S-87-640	

Fiber Count	Buffer Tube Outside Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Nominal Outside Diameter[1] mm (in)	Minimum Bend Radius Loaded cm (in)	Installed cm (in)
All-Dielectric					
24	8.9 (0.35)	150 (101)	14.7 (0.58)	22.05 (8.7)	14.7 (5.8)
48	8.9 (0.35)	152 (102)	14.7 (0.58)	22.05 (8.7)	14.7 (5.8)
72	9.6 (0.38)	161 (108)	15.2 (0.60)	22.8 (9.0)	15.2 (6.0)
96	9.6 (0.38)	163 (109)	15.2 (0.60)	22.8 (9.0)	15.2 (6.0)
144	10.6 (0.42)	193 (130)	16.7 (0.66)	25.05 (9.9)	16.7 (6.6)
216	12.3 (0.48)	219 (147)	18.1 (0.71)	27.15 (10.7)	18.1 (7.1)
Armored					
24	8.9 (0.35)	228 (153)	16.6 (0.65)	24.9 (9.8)	16.6 (6.5)
48	8.9 (0.35)	230 (154)	16.6 (0.65)	24.9 (9.8)	16.6 (6.5)
72	9.6 (0.38)	245 (164)	17.0 (0.67)	25.5 (10.0)	17.0 (6.7)
96	9.6 (0.38)	248 (167)	17.0 (0.67)	25.5 (10.0)	17.0 (6.7)
144	10.6 (0.42)	269 (181)	18.0 (0.71)	27.0 (10.6)	18.0 (7.1)
216	12.3 (0.48)	305 (205)	19.4 (0.76)	29.1 (11.5)	19.4 (7.6)

[1] *Actual diameter may vary by + or - 5%.*

CORNING | Evolant® Solutions

SST-Ribbon™ Gel-Free Cables

An Evolant® Solutions Product

Transmission Performance

Performance Option Code	30	31	01	00
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	0.4/0.4/0.3	0.35/0.35/0.25
Minimum LED Bandwidth (MHz•km)	200/500	500/500	– / – / –	– / – / –
Maximum Effective Modal Bandwidth (MHz•km)	220/ –*	510/ –*	– / – / –	– / – / –
Serial Gigabit Ethernet Distance (m)	300/550	600/600	5000/5000/ –	5000/5000/ –
Serial 10 Gigabit Ethernet Distance (m)	33/ –	82/ –	10000/10000/40000	10000/10000/40000

As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

Ordering Information

☐☐☐☐ C ☐ - 1 4 1 ☐☐ D 2 0
 1   **2** **3**   **4**

1 **Select fiber count.**

024	072	144
048	096	216

2 **Select fiber type.**

K = 62.5/125 µm
C = 50/125 µm
E = Single-mode

3 **Select cable type.**

4 = All-dielectric
5 = Armored

4 **Select performance option code (See Transmission Performance table).**

30 = 62.5/125 µm
31 = 50/125 µm
01 = Single-mode
00 = Single-mode

CORNING | Evolant® Solutions