SST-Ribbon™ Gel-Free Cables

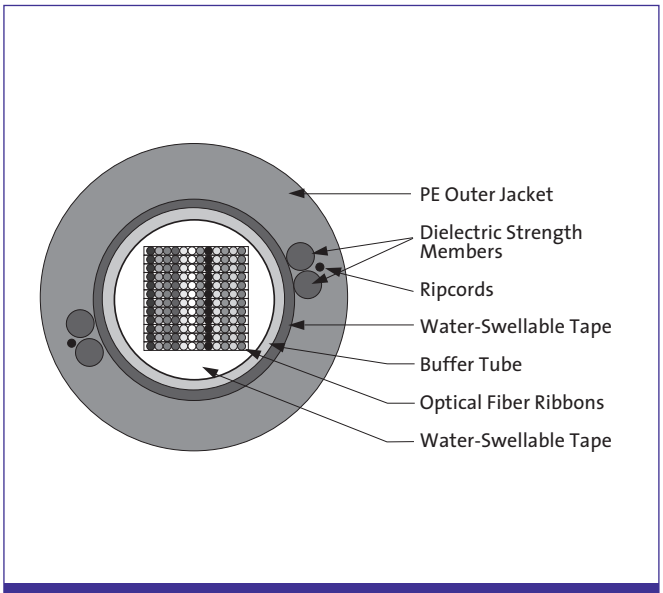
An Evolant® Solutions Product

features and benefits |

Completely gel-free design	No messy filling or flooding compounds eliminate time and labor associated with cleaning ribbons, thereby keeping work and splicing areas cleaner and simplifying splice preparation
Enhanced coupling	Ensures the ribbon stack and cable act as one unit, providing long-term reliability in aerial, duct and direct-buried applications and minimizing ribbon movement in situations where cable vibration may occur

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 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. All fiber counts and jacket options will easily fit in 1 inch inner diameter or larger inner duct. The cable provides up to 216 fibers in a compact, rugged design, compatible with standard ribbon cable procedures, hardware and 12-fiber ribbons with readily identifiable ribbon IDs and fiber colors. 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



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

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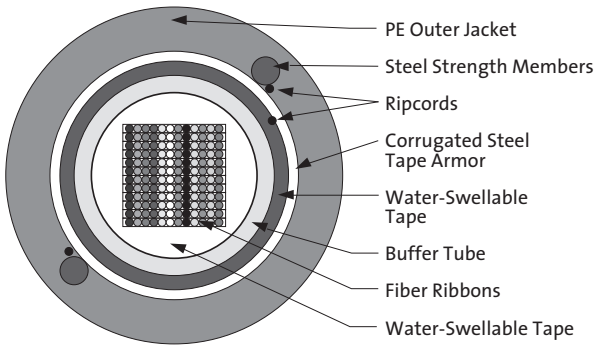

SST-Ribbon Gel-Free Single-Armored Cable | Drawing ZA-675

specifications |

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

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SST-Ribbon™ Gel-Free Cables

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specifications | (continued)

Fiber Count	Nominal Weight kg/km (lb/1000 ft)	Buffer Tube Outer Diameter mm (in)	Nominal Outer Diameter* mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
All-Dielectric					
24	108 (73)	5.6 (0.22)	10.8 (0.43)	16.2 (6.4)	10.8 (4.3)
48	108 (73)	5.6 (0.22)	10.8 (0.43)	16.2 (6.4)	10.8 (4.3)
72	113 (76)	6.1 (0.24)	11.3 (0.44)	16.95 (6.7)	11.3 (4.4)
96	113 (76)	6.1 (0.24)	11.3 (0.44)	16.95 (6.7)	11.3 (4.4)
144	130 (88)	7.8 (0.31)	13.0 (0.51)	19.5 (7.7)	13.0 (5.1)
216	219 (147)	12.3 (0.48)	18.1 (0.71)	27.15 (10.7)	18.1 (7.1)
Armored					
24	166 (112)	5.6 (0.22)	12.5 (0.49)	18.75 (7.4)	12.5 (4.9)
48	166 (112)	5.6 (0.22)	12.5 (0.49)	18.75 (7.4)	12.5 (4.9)
72	171 (116)	6.1 (0.24)	12.9 (0.51)	19.35 (7.6)	12.9 (5.1)
96	171 (116)	6.1 (0.24)	12.9 (0.51)	19.35 (7.6)	12.9 (5.1)
144	194 (131)	7.8 (0.31)	14.6 (0.57)	21.9 (8.6)	14.6 (5.7)
216	305 (205)	12.3 (0.48)	19.4 (0.76)	29.1 (11.5)	19.4 (7.6)

** Actual diameter may vary by ±5%.*

transmission performance |

Performance Option Code	01	00
Optical Fiber Type (µm)	Single-mode (1)	Single-mode (1)
Wavelength (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.35/0.35/0.25
Minimum LED Bandwidth (MHz•km)	– / – / –	– / – / –
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	– / – / –	– / – / –
Serial 1 Gigabit Ethernet distance (m)	5000/5000/ –	5000/5000/ –
Serial 10 Gigabit Ethernet distance (m)	10000/10000/40000	10000/10000/40000

(1) ITU 652.D compliant.

Improved attenuation and bandwidth options available.
Bend-insensitive single-mode fibers available on request.
Contact Corning Cable Systems Customer Service Representative for additional information.

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ordering information | Contact Customer Service at 800-743-2671 for other options.

☐	☐	☐	E	C	☐	-	1	4	1	☐	☐	D	5	3
1	2	3	4	5	6		7	8	9	10	11	12	13	14

1-3

Select fiber count.

024	072	144
048	096	216

4

Defines fiber type.

E = Single-mode

5 / 12

Defines cable design.

C/D = SST-Ribbon™ Gel-Free Cable

6

Select cable type.

4 = All-dielectric
5 = Armored

7

Defines fiber placement.

1 = Standard for ribbon cables

8

Defines length markings.

4 = Markings in feet (standard)

9

Defines tensile strength.

1 = 2700 N, standard

10-11

Select performance option code (see Transmission Performance table).

13-14

Defines special requirements.

53 = Standard jacket print

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