

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

Standards

Design and Test Criteria

ANSI/ICEA S-87-640 Telcordia GR-20 RDUP PE-90

Common Installations

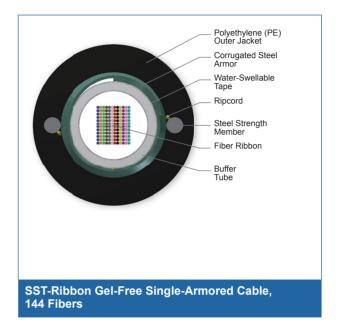
Outdoor aerial, duct and direct-buried; indoor when installed according to National Electrical Code® (NEC®) Article 770 Corning SST-Ribbon™ gel-free cables represent a truly innovative breakthrough in outside plant cable technology. Providing up to 216 fibers in a compact design, the enhanced coupling features ensure the ribbon stack and cable act as one unit, providing long-term reliability in aerial, duct and direct-buried applications. These features also minimize ribbon movement in situations where cable vibration may occur. The cable consists of a single buffer tube containing a stack of up to eighteen 12-fiber ribbons wrapped within a water-swellable foam tape and surrounded by a second water-swellable tape. Dielectric 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. The 12-fiber ribbons have readily identifiable ribbon IDs and fiber colors and geometries that result in excellent mass-splicing yields.











Specifications

Temperature Range			
Storage	-40 °C to 70 °C (-40 °F to 158 °F)		
Installation	-30 °C to 70 °C (-22 °F to 158 °F)		
Operation	-40 °C to 70 °C (-40 °F to 158 °F)		

^{*} Note: Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Mechanical Characteristics Cable		
Max. Tensile Strength, Short-Term	2700 N (600 lbf)	
Max. Tensile Strength, Long-Term	890 N (200 lbf)	

Fiber Count	Weight	Buffer Tube Dia- meter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
Dielectric					
12	82 kg/km	5.6 mm	10.4 mm	156 mm	104 mm
	(55 lb/1000 ft)	(0.22 in)	(0.41 in)	(6.2 in)	(4.1 in)
24 - 36	83 kg/km	5.6 mm	10.4 mm	156 mm	104 mm
	(56 lb/1000 ft)	(0.22 in)	(0.41 in)	(6.2 in)	(4.1 in)
48	84 kg/km	5.6 mm	10.4 mm	156 mm	104 mm
	(57 lb/1000 ft)	(0.22 in)	(0.41 in)	(6.2 in)	(4.1 in)





Fiber Count	Weight	Buffer Tube Dia- meter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
72	100 kg/km	6.1 mm	11.3 mm	170 mm	113 mm
	(67 lb/1000 ft)	(0.24 in)	(0.44 in)	(6.7 in)	(4.4 in)
96	111 kg/km	7.0 mm	12.2 mm	183 mm	122 mm
	(75 lb/1000 ft)	(0.28 in)	(0.48 in)	(7.2 in)	(4.8 in)
144	125 kg/km	7.8 mm	13.0 mm	195 mm	130 mm
	(84 lb/1000 ft)	(0.30 in)	(0.51 in)	(7.7 in)	(5.1 in)
216	220 kg/km	12.3 mm	18.1 mm	272 mm	181 mm
	(148 lb/1000 ft)	(0.48 in)	(0.71 in)	(10.7 in)	(7.1 in)
Armored					
12	153 kg/km	5.6 mm	11.85 mm	178 mm	119 mm
	(102 lb/1000 ft)	(0.22 in)	(0.47 in)	(7.1 in)	(4.7 in)
24	155 kg/km	5.6 mm	11.85 mm	178 mm	119 mm
	(104 lb/1000 ft)	(0.22 in)	(0.47 in)	(7.1 in)	(4.7 in)
36	155 kg/km	5.6 mm	11.85 mm	178 mm	119 mm
	(105 lb/1000 ft)	(0.22 in)	(0.47 in)	(7.1 in)	(4.7 in)
48	156 kg/km	5.6 mm	11.85 mm	178 mm	119 mm
	(106 lb/1000 ft)	(0.22 in)	(0.47 in)	(7.1 in)	(4.7 in)
72	175 kg/km	6.1 mm	12.90 mm	194 mm	129 mm
	(118 lb/1000 ft)	(0.24 in)	(0.51 in)	(7.7 in)	(5.1 in)
96	190 kg/km	7.0 mm	13.50 mm	203 mm	135 mm
	(128 lb/1000 ft)	(0.28 in)	(0.53 in)	(8.0 in)	(5.3 in)
144	205 kg/km	7.8 mm	13.90 mm	209 mm	139 mm
	(138 lb/1000 ft)	(0.30 in)	(0.55 in)	(8.3 in)	(5.5 in)
216	311 kg/km	12.3 mm	18.7 mm	281 mm	187 mm
	(209 lb/1000 ft)	(0.48 in)	(0.74 in)	(11.1 in)	(7.6 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

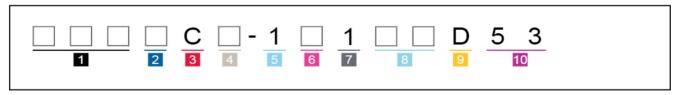


Transmission Performance

Single-mode				
Fiber Name	Single-mode (OS2)	Single-mode (OS2)	Single-mode (OS2)	
Fiber Category	G.652.D	G.652.D	G.652.D/G.657.A1	
Fiber Code	E	E	Z	
Performance Option Code	00	01	01	
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550	
Maximum Attenuation (dB/km)	0.35/0.35/0.25	0.4/0.4/0.3	0.4/0.4/0.3	

^{*} For more information on typical attenuation please see the Corning whitepaper at http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/ LAN-1863-AEN.pdf

Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.



Select fiber count.

012 036 072 144

Select fiber type.

E = Single-mode (OS2) SMF-28e+®

Z = Single-mode (G.652.D/ G.657.A1) SMF-28 ® Ultra fiber

3 Defines cable type. C = SST-Ribbon™

Select cable type.

4 = All-dielectric

5 = Single-jacket, singlearmored

Defines fiber placement.

1 = Standard for ribbon cables

6 Defines length markings.

4 = Markings in ft (standard)

3 = Markings in meters

Defines tensile strength.

1 = 2700 N/600 lb (standard)

Select performance option code.

01 = Single-mode (OS2)

(Max. attenuation 0.4/0.4/0.3 dB/km) 00 = Single-mode (OS2)

(Max. attenuation 0.35/0.35/0.25 dB/km)

Defines cable type.

D = Gel-Free Cable

10 Defines special requirements.

> 53 = Standard jacket print plus SOC code



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