

SST-Ribbon Single-Tube, Gel-Free Cable 144 F, Single-mode (OS2)

CORNING

Part Number:
144EC4-14100D53

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.

Features and Benefits

Gel-free waterblocking technology

Craft-friendly cable preparation

Innovative waterblocking technology

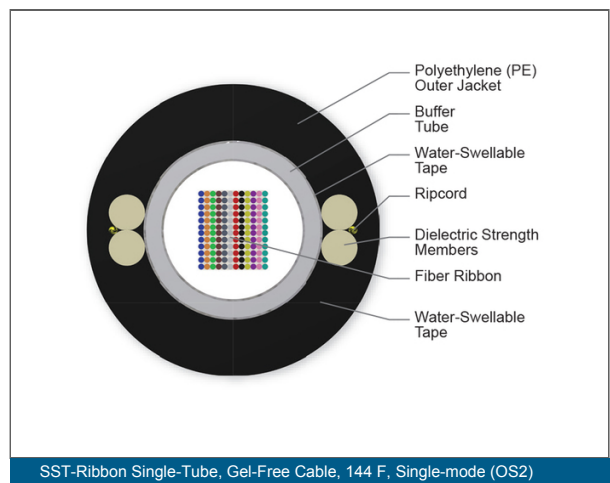
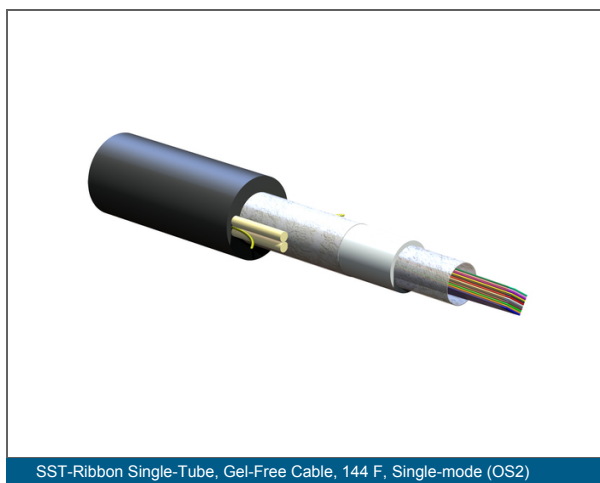
Prevents water penetration

12-fiber ribbons with ribbon IDs

Easy identification

Up to 216 fibers in a compact design

Easily fits in 1.0 inch inner diameter duct



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Specifications

General Specifications

Installation Methods	Microduct
Cable Type	Ribbon
Environment	Outdoor
Product Type	Dielectric
Fiber Category	Single-mode (OS2)
Cable geometry	Round

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Common Installations	Outdoor lashed aerial and duct, indoor when installed according to National Electrical Code® (NEC®) Article 770
Design and Test Criteria	ANSI/ICEA S-87-640, Telcordia GR-20, RDUP PE-90

Environmental Conditions

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

Cable Design

Buffer Tube Color	Natural
Fiber Count	144
Buffer Tube Diameter	7.8 mm (0.31 in)
Number of Ripcords	2
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)

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Cable Design

Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tape	Water-swellable
Tape, Layer 1	Water-swellable
Tape, Layer 2	Water-swellable
Ribbons per Tube	12
Fibers per Ribbon	12

Mechanical Specifications

Max. Tensile Strength, Long-Term	890 N (200.08 lbf)
Max. Tensile Strength, Short-Term	2700 N (606.98 lbf)
Nominal Outer Diameter	13 mm (0.51 in)
Min. Bend Diameter Operation	260 mm (10.24 in)
Min. Bend Diameter Installation	390 mm (15.35 in)

Optical Characteristics

Fiber Code	E
Performance Option Code	00
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	Single-mode (OS2)
Maximum Attenuation	0.35 dB/km / 0.35 dB/km / 0.25 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D

Dimensions

Cable Weight	125 kg/km (84 lb/1000 ft)
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The Corning logo consists of a solid blue square. Inside the square, the word "CORNING" is written in a white, serif, all-caps font, centered horizontally and vertically.

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