

SST-UltraRibbon Single-Tube, Gel-Free Cable 432 F, Single-mode (OS2)

CORNING

Part Number:
432EV4-14100D53

Corning SST-UltraRibbon gel-free cables continue the innovative breakthrough in outdoor cable technology by introducing a new generation of high-fiber-count gel-free cables. Providing high-fiber-counts in a rugged, 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 24-fiber and 36-fiber ribbons wrapped within a water-swellable foam tape and surrounded by a second water-swellable tape. Each 24-fiber and 36-fiber ribbon can be easily separated by hand into 12-fiber ribbons. 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.

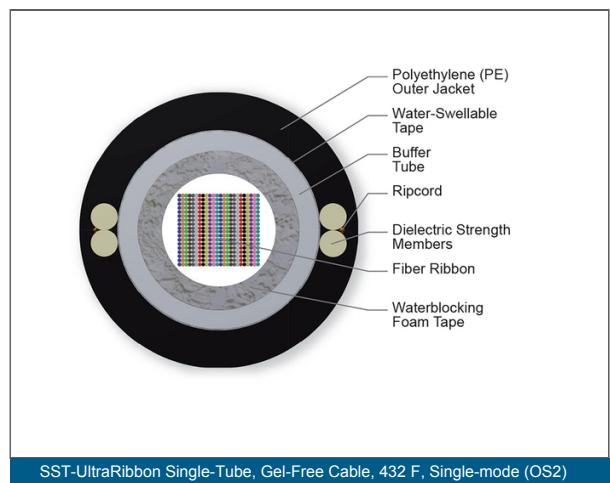
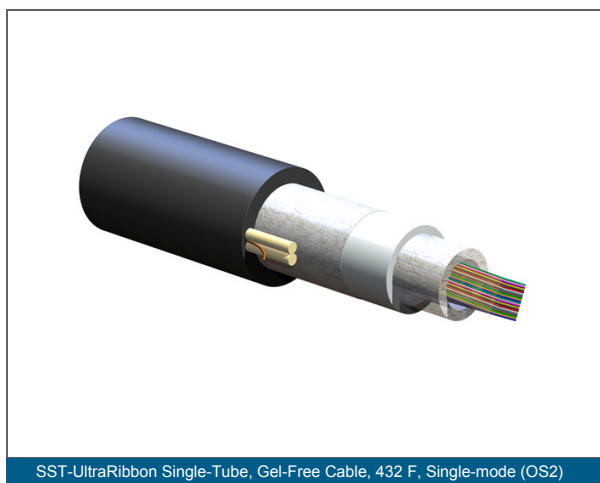
Features and Benefits

Gel-free with no filling compound
Eliminates time and labor of cleaning

Innovative waterblocking technology
Prevents water penetration

Up to 864 fibers in a compact design
Maximizes use of critical duct space

12-fiber ribbons individually numbered
Easy identification



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Specifications

General Specifications

Installation Methods	Riser, Horizontal, Plenum
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	432
Buffer Tube Diameter	154 mm (6.06 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	Waterblocking foam tape
Tape, Layer 1	Water-swellable
Tape, Layer 2	Water-swellable
Ribbons per Tube	18
Fibers per Ribbon	24

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	21.1 mm (0.83 in)
Min. Bend Diameter Operation	422 mm (16.61 in)
Min. Bend Diameter Installation	634 mm (24.96 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	274 kg/km (184.12 lb/1000 ft)
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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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