

# SST-UltraRibbon™ Single-Tube, Gel-Free Cable

864 F, Single-mode (OS2)

CORNING

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

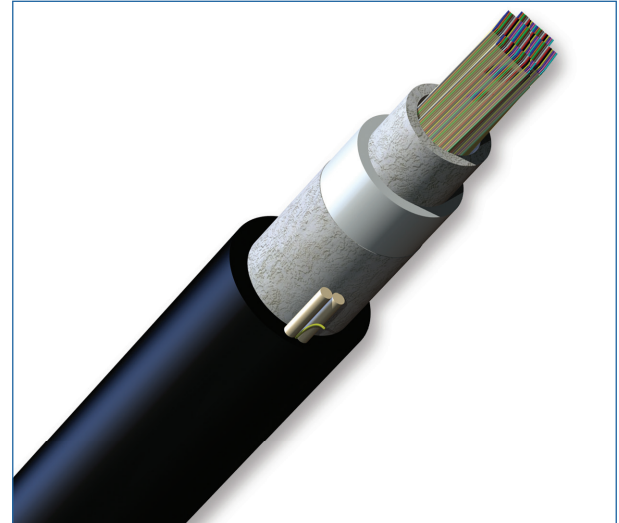
Easy identification

## Standards

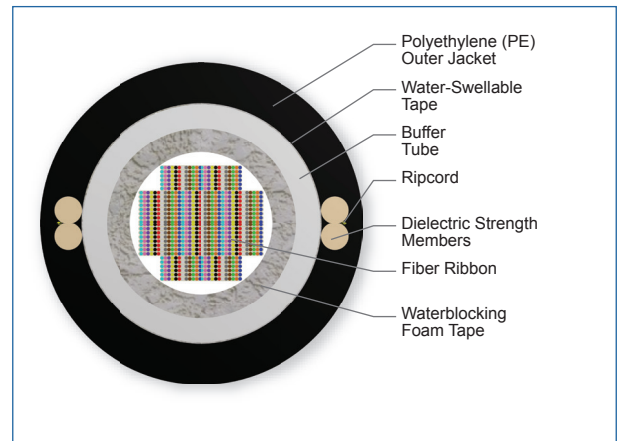
**Approvals and Listings** RDUP PE-90 Listed

**Design and Test Criteria** ANSI/ICEA S-87-640,  
Telcordia GR-20

**Common Installations** Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770



Part Number: 864EV4-14100D53



Cross Section of Part Number: 864EV4-14100D53

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## Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Ribbon
Product Type	Dielectric
Fiber Category	Single-mode (OS2)

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)

Cable Design	
Fiber Count	864
Ribbons per Tube	12 and 16
Fibers per Ribbon	24 and 36
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tape	Waterblocking foam tape
Buffer Tube Color	Natural
Buffer Tube Diameter	18.0 mm (0.71 in)
Tape, Layer 2	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Notes: 864 fiber cable consists of 12 ribbons with 24 fibers per tube and 16 ribbons with 36 fibers per tube

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	353 kg/km (244 lb/1000 ft)
Nominal Outer Diameter	23.4 mm (0.90 in)

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## Mechanical Characteristics Cable

Min. Bend Radius Installation	351 mm (13.8 in)
Min. Bend Radius Operation	234 mm (9.2 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fiber Specifications

### Optical Characteristics (cabled)

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

## Ordering Information

Part Number	864EV4-14100D53
Product Description	SST-UltraRibbon™ Single-Tube, Gel-Free Cable, 864 F, Single-mode (OS2)



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