

# SST-Ribbon™ Single-Tube, Gel-Free, Armored Cable

24 F, Single-mode (OS2)

CORNING

Corning Cable Systems SST-Ribbon™ 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. Steel strength members located 180 degrees apart under the cable jacket provide tensile and anti-buckling strength. Armored cables include a copolymer-coated corrugated steel tape armor layer. 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

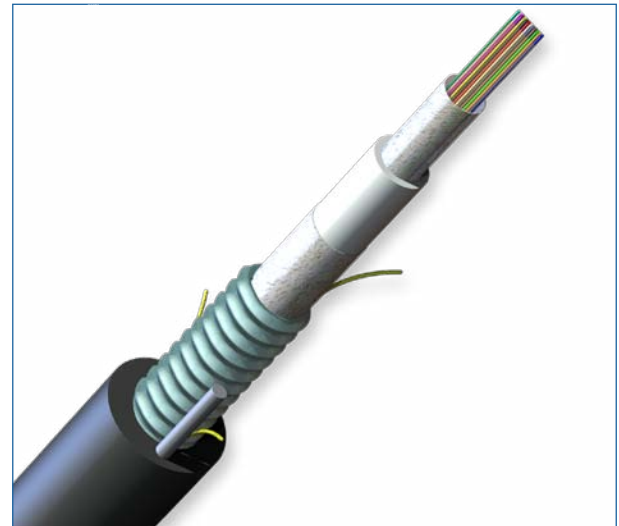
Easily fits in 1.0 inch inner diameter duct

## Standards

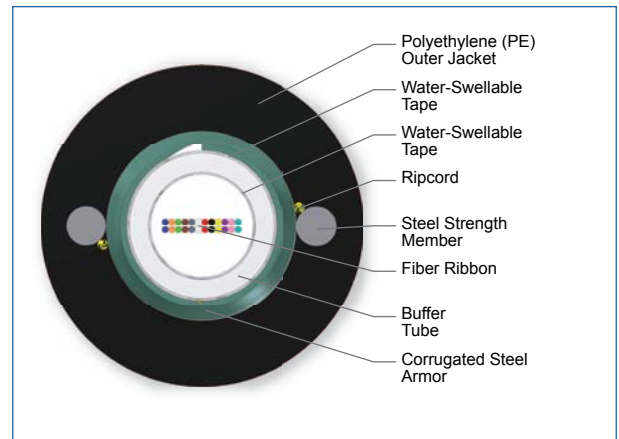
<b>Approval and Listings</b>	RDUP PE-90 Listed
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<b>Common Installations</b>	Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770
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<b>Design and Test Criteria</b>	ANSI/ICEA S-87-640
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Part Number: 024EC5-14100D53



Cross Section of Part Number: 024EC5-14100D53

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## Specifications

### General Specifications

Environment	Outdoor
Application	Aerial, Direct Buried, Duct
Cable Type	Ribbon
Product Type	Armored
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	24
Ribbons per Tube	2
Fibers per Ribbon	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tape	Water-swellaable
Buffer Tube Color	Natural
Buffer Tube Diameter	5.6 mm (0.22 in)
Tape, Layer 2	Water-swellaable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Number of Ripcords	3
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

### Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	210 kg/km (141 lb/1000 ft)
Nominal Outer Diameter	15.8 mm (0.62 in)

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## Mechanical Characteristics Cable

Min. Bend Radius Installation	237 mm (9.3 in)
Min. Bend Radius Operation	158 mm (6.2 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	8.2 µm
Fiber Type	Single-mode
Fiber Category	OS2
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
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes: 1) Improved attenuation and bandwidth options available  
2) Bend-insensitive single-mode fibers available on request  
3) Contact a Corning Cable Systems Customer Care Representative for additional information

## Ordering Information

Part Number	024EC5-14100D53
Product Description	SST-Ribbon™ Single-Tube, Gel-Free, Armored Cable, 24 F, Single-mode (OS2)

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## Notes



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