

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

48 F, Single-mode (OS2)

CORNING

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

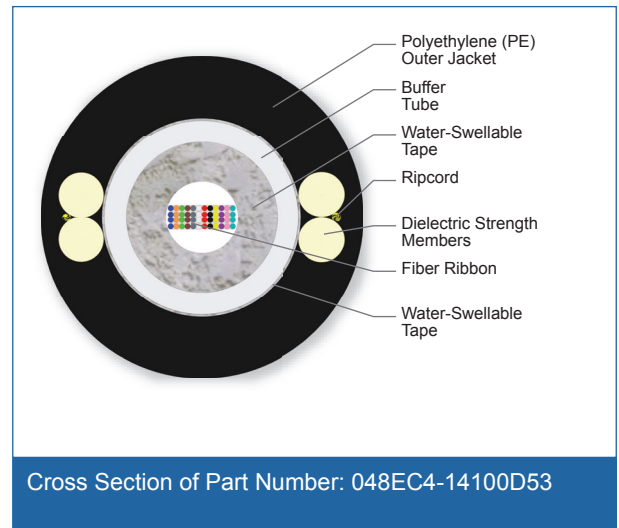
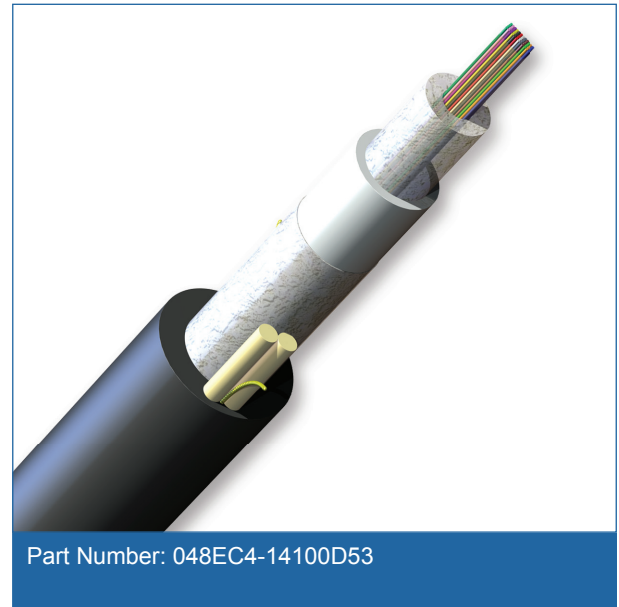
Standards

Common Installations

Outdoor lashed aerial, duct and direct-buried; 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



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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	48
Ribbons per Tube	4
Fibers per Ribbon	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tape	Water-swellable
Buffer Tube Color	Natural
Buffer Tube Diameter	5.6 mm (0.22 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

Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	84 kg/km (57 lb/1000 ft)
Nominal Outer Diameter	10.4 mm (0.41 in)
Min. Bend Radius Installation	156 mm (6.2 in)
Min. Bend Radius Operation	104 mm (4.1 in)

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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	048EC4-14100D53
Product Description	SST-Ribbon™ Single-Tube, Gel-Free Cable, 48 F, Single-mode (OS2)
EAN Code	4056418187488



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