

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

12 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-swappable foam tape and surrounded by a second water-swappable 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

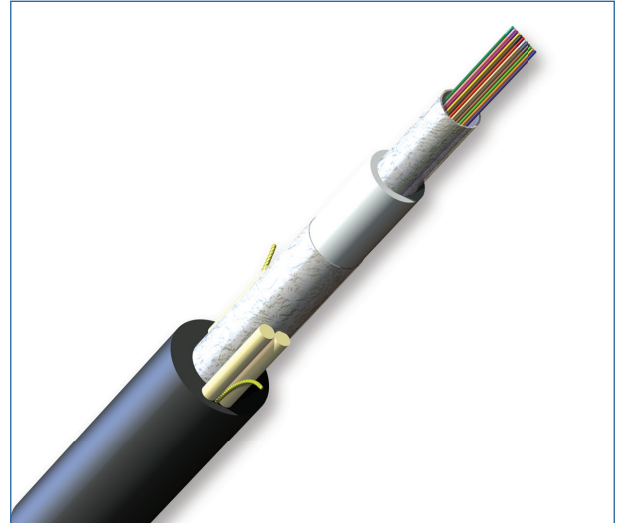
## Standards

### Common Installations

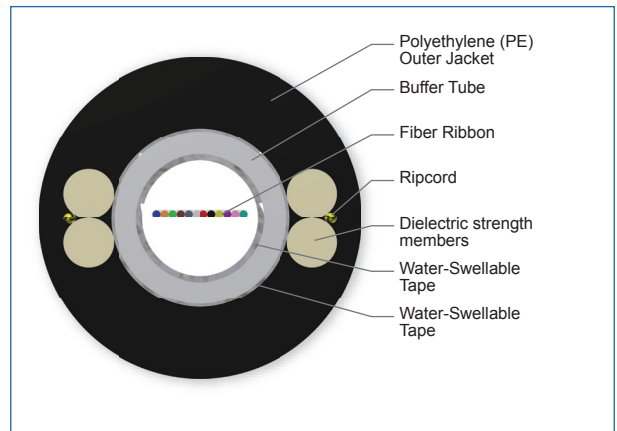
Outdoor lashed aerial, duct and direct-buried; indoor when installed according to National Electrical Code® (NEC®) Article 770

### Design and Test Criteria

ANSI/ICEA S-87-640  
Telcordia GR-20  
RDUP PE-90



Part Number: 012EC4-14100D53



Cross Section of Part Number: 012EC4-14100D53

CORNING

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

12 F, Single-mode (OS2)

CORNING

## 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	12
Ribbons per Tube	1
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	82 kg/km (55 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)

CORNING

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

12 F, Single-mode (OS2)

CORNING

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

## 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	012EC4-14100D53
Product Description	SST-Ribbon™ Single-Tube, Gel-Free Cable, 12 F, Single-mode (OS2)
EAN Code	4056418181080



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2017 Corning Optical Communications. All rights reserved.

CORNING