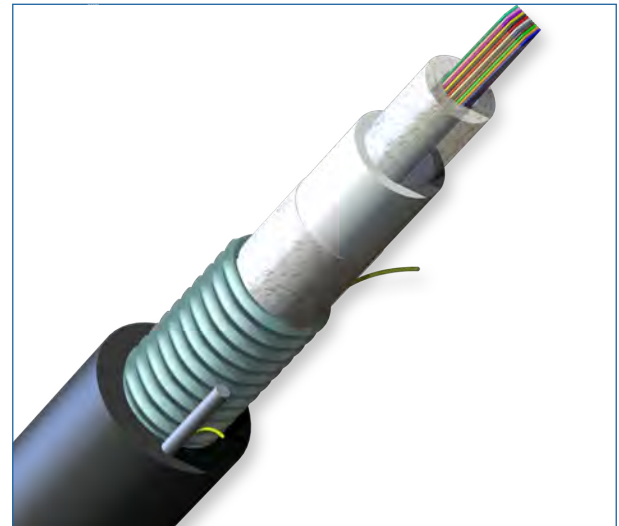# SST-Ribbon™ Single-Tube, Gel-Free, Armored Cable

96 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.

Part Number: 096EC5-14100D53

Features and Benefits

Gel-free waterblocking technology
Craft-friendly cable preparation

Innovative waterblocking technology
Prevents water penetration
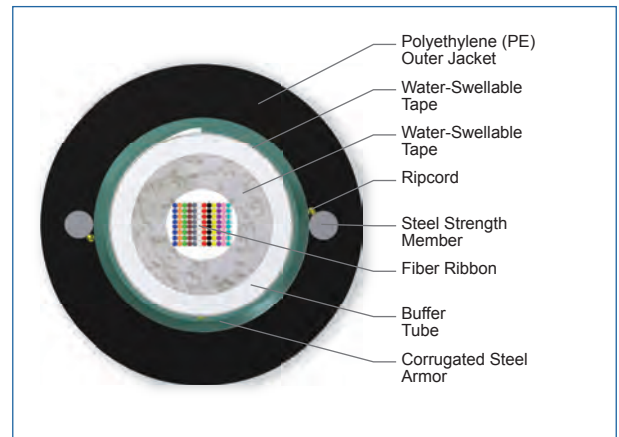
12-fiber ribbons with ribbon IDs
Easy identification

Up to 216 fibers in a compact design
Easily fits in 1.0 inch inner diameter duct

Standards

Approval and Listings	RDUP PE-90 Listed
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

Cross Section of Part Number: 096EC5-14100D53

- Polyethylene (PE) Outer Jacket
- Water-Swellable Tape
- Water-Swellable Tape
- Ripcord
- Steel Strength Member
- Fiber Ribbon
- Buffer Tube
- Corrugated Steel Armor

CORNING

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

96 F, Single-mode (OS2)

CORNING

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	96
Ribbons per Tube	8
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	6.1 mm (0.24 in)
Tape, Layer 2	Water-swellable
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	248 kg/km (167 lb/1000 ft)
Nominal Outer Diameter	17 mm (0.67 in)

CORNING

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

96 F, Single-mode (OS2)

CORNING

Mechanical Characteristics Cable	
Min. Bend Radius Installation	255 mm (10 in)
Min. Bend Radius Operation	170 mm (6.7 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/EG

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
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	096EC5-14100D53
Product Description	SST-Ribbon™ Single-Tube, Gel-Free, Armored Cable, 96 F, Single-mode (OS2)

CORNING

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

96 F, Single-mode (OS2)

Notes

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems
A complete listing of the trademarks of Corning Cable Systems is available at www.corning.com/cablesystems/trademarks.
Corning Cable Systems is ISO 9001 certified. © 2012 Corning Cable Systems. All rights reserved.

CORNING