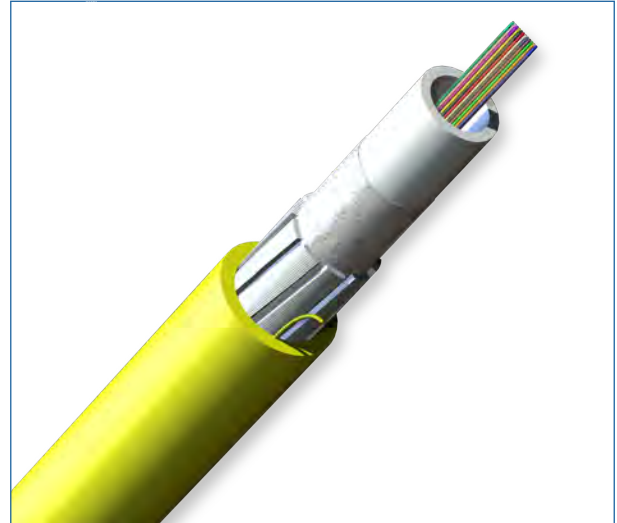# Ribbon Cable, Riser
24 F, Single-mode (OS2)

CORNING

Corning Cable Systems Ribbon Riser Cables are all-dielectric and designed for indoor use. The optical fibers are organized into easily identifiable 12-fiber ribbons inside a central tube. The required tensile strength is provided by dielectric strength elements that are helically stranded around the central tube. The specially formulated, flame-retardant outer jacket and rugged construction of these cables facilitates routing through riser shafts and long horizontal runs inside buildings. These cables are tested using the UL 1666 flame test, meet the application requirements of the National Electrical Code® (NEC®) and are OFNR and FT-4 listed.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Part Number: 024EC7-14101-20

Features and Benefits

Precise fiber and ribbon geometries
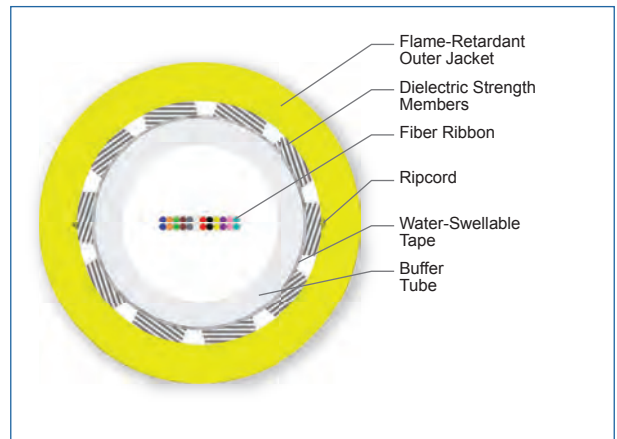Excellent mass splicing yields

Gel-free waterblocking technology
Craft-friendly cable preparation

Innovative waterblocking technology
Prevents water penetration

Flame-retardant jacket
Rugged and durable

Cross Section of Part Number: 024EC7-14101-20

Standards

Approval and Listings	National Electrical Code® (NEC®) OFNR, CSA OFN FT-4
Common Installations	Indoor vertical riser and general purpose horizontal according to NEC Article 770
Design and Test Criteria	ANSI/ICEA S-83-596

CORNING

Ribbon Cable, Riser
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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Ribbon
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-40 °C up 70 °C (-40 °F up 158 °F)
Installation	-10 °C up 60 °C (14 °F up 140 °F)
Operation	-20 °C up 70 °C (-4 °F up 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
Buffer Tube Color	Natural
Buffer Tube Diameter	8.1 mm (0.32 in)
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	1320 N (300 lbf)
Max. Tensile Strengths, Long-Term	400 N (90 lbf)
Weight	136 kg/km (91 lb/1000 ft)
Nominal Outer Diameter	12.4 mm (0.49 in)

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Ribbon Cable, Riser

24 F, Single-mode (OS2)

Mechanical Characteristics Cable

Min. Bend Radius Installation	186 mm (7.3 in)
Min. Bend Radius Operation	124 mm (4.9 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	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 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	024EC7-14101-20
Product Description	Ribbon Cable, Riser, 24 F, Single-mode (OS2)

CORNING

Ribbon Cable, Riser

24 F, Single-mode (OS2)

Notes

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