

# UltraRibbon™ Riser Gel-Free Cable

360 F, 50 μm multimode, extended 10G distance (OM4)



Corning UltraRibbon™ Riser Gel-Free Cables continue the innovative breakthrough in indoor cable technology with a new generation of high-fiber-count single tube cables. Providing up to 432 fibers in a rugged, compact design, the cable maximizes the use of critical duct space and can easily fit in 1.25-in inner duct. A specially formulated flame-retardant jacket allows this cable to be used in indoor general purpose horizontal and riser applications.

The cable consists of a single buffer tube containing a stack of up to eighteen 24-fiber ribbons. The 24-fiber ribbons can be easily separated by hand into two 12-fiber ribbons. The 12-fiber ribbons have readily identifiable ribbon IDs, fiber colors, and precise geometries that result in excellent mass-splicing yields.

## Features and Benefits

**Each 12-fiber ribbon individually numbered**

Easy identification

**Precise fiber and ribbon geometries in a gel-free design**

Excellent mass splicing yields

**Flame-retardant jacket**

Rugged and durable

**Up to 432 fibers in a compact design**

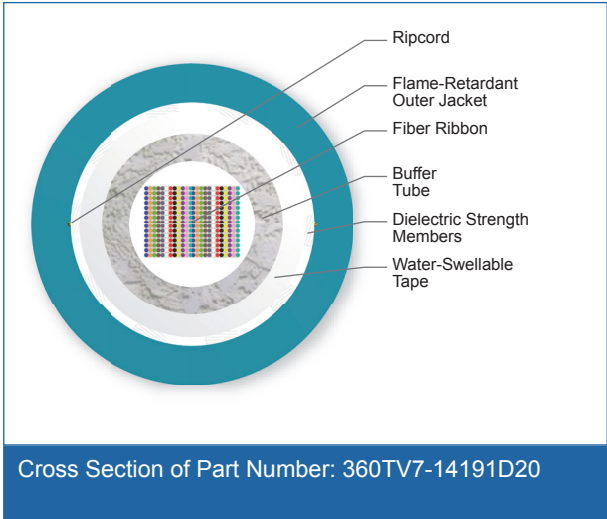
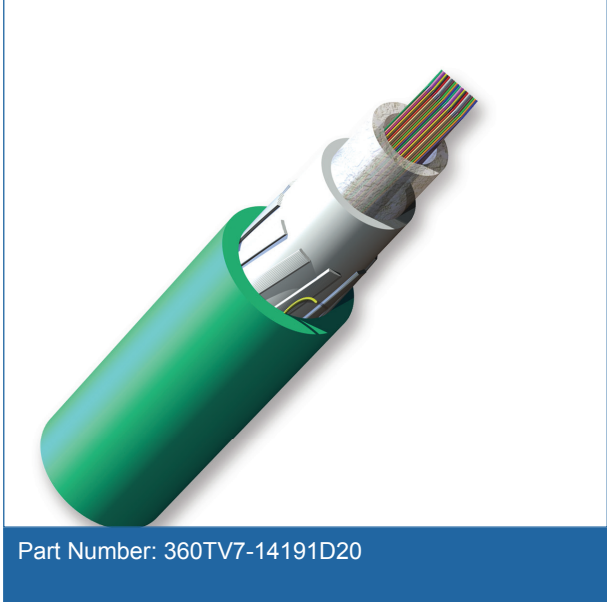
Easily fits in 1.25-in diameter inner duct

**Common installations**

Indoor vertical riser and general purpose horizontal according to National Electrical Code® (NEC®) Article 770

## Standards

<b>Listings</b>	National Electrical Code® (NEC®) OFNR
<b>Design Criteria</b>	CSA FT-4
<b>Test Criteria</b>	ANSI/ICEA S-83-596



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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	50 µm MM (OM4+)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Fiber Count	360
Ribbons per Tube	15
Fibers per Ribbon	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	14.6 mm (0.57 in)
Tape	Waterblocking foam tape
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Weight	327 kg/km (219 lb/1000 ft)
Nominal Outer Diameter	20.7 mm (0.81 in)
Min. Bend Radius Installation	311 mm (12.2 in)
Min. Bend Radius Operation	207 mm (8.1 in)

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## 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	50 µm
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	600 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	5350 MHz*km / -

\* Assumes 0.7 dB maximum total connector/splice loss.

\* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

- Notes:
- 1) 50 µm multimode fiber macrobend loss  $\leq 0.2$  dB at 850 nm for two turns around 7.5 mm radius mandrel.
  - 2) Improved attenuation and bandwidth options available.
  - 3) Bend-insensitive single-mode fibers available on request.
  - 4) Contact a Corning Customer Care Representative for additional information.

## Ordering Information

Part Number	360TV7-14191D20
Product Description	UltraRibbon™ Riser Gel-Free Cable, 360 F, 50 µm multimode, extended 10G distance (OM4)



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