

UltraRibbon™ Indoor, Gel-Free Cables, Plenum

504 F, Single-mode (OS2)

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Corning UltraRibbon™ Plenum Gel-Free Cables continue the innovative breakthrough in indoor cable technology with a new generation of high-fiber-count single tube cables. 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 plenum applications.

The cable consists of a single buffer tube containing a stack of 24- and 36-fiber ribbons that are easily separated by hand into two or three fiber ribbons, respectively.

Features and Benefits

Precise fiber and ribbon geometries in a gel-free design

Excellent mass splicing yields

Flame-retardant jacket

Rugged and durable

Up to 504 fibers in a compact design

Easily fits in 1.25-in diameter inner duct

Standards

Approvals and Listings

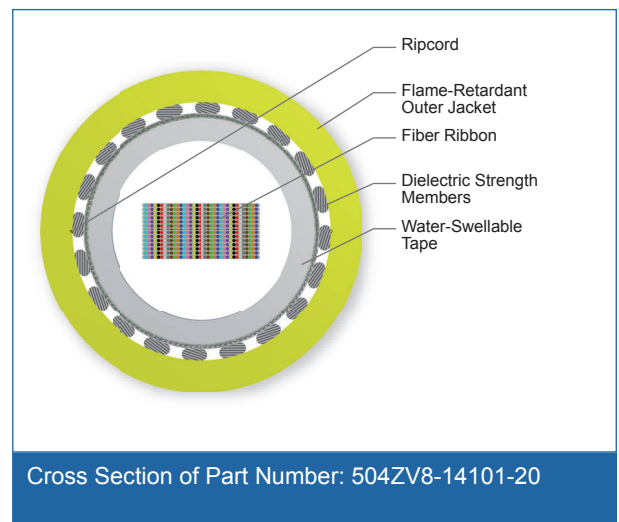
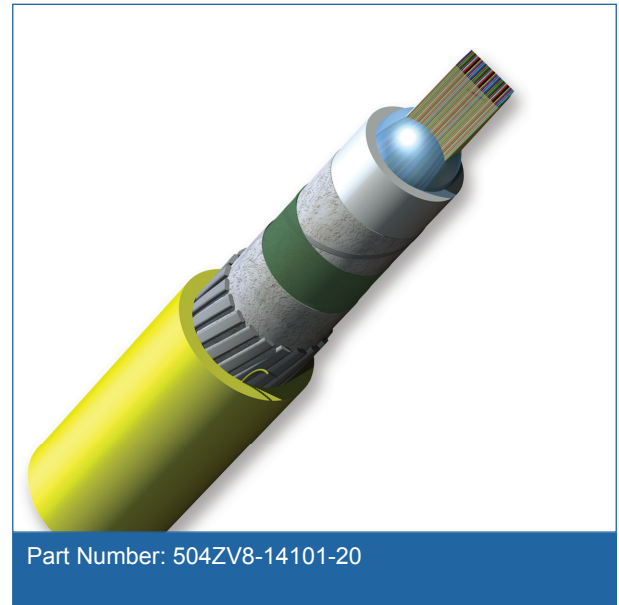
National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596

Common Installations

Indoor plenum, riser and general building applications

Flame Resistance

NFPA 262 (for plenum, riser and general building applications)



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Specifications

General Specifications

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

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design

Fiber Count	576
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	17.9 mm (0.7 in)
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tape	Water-swellable
Number of Ripcords	2
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Weight	512.18 kg/km (115.14 lb/1000 ft)
Nominal Outer Diameter	24.0 mm (0.94 in)
Min. Bend Radius Installation	360 mm (14.17 in)
Min. Bend Radius Operation	240 mm (9.45 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 Name	SMF-28® ULTRA
Fiber Category	G.657.A1
Fiber Code	Z
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
Typical Attenuation	0.33 dB/km / 0.33 dB/km / 0.19 dB/km

* For more information on typical attenuation please see the Corning whitepaper at http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf

Ordering Information

Part Number	504ZV8-14101-20
Product Description	UltraRibbon™ Gel-Free Cable, Plenum, 504 F, Single-mode (OS2)



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