FREEDM® UltraRibbon™ Gel-Filled Cable, Riser

864 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Corning FREEDM® UltraRibbon™ riser cables provide the ultimate solution for indoor/outdoor high-fiber-count applications. The smallest and lightest in the industry, these cables are designed to maximize the use of critical duct space with excellent installation results. The UV-resistant, flame-retardant jacket allows this cable to be installed outdoors or in indoor general purpose horizontal and riser applications. FREEDM UltraRibbon riser cables employ a single buffer tube containing a stack of 24- and 36-fiber ribbons that are easily separated by hand into two or three 12-fiber ribbons respectively. This cable is also available with interlocking armor for additional mechanical durability.

Part Number: 864ZVF-14101-20

Features and Benefits

Precise fiber and ribbon geometries
Excellent mass splicing yields

Waterblocked cable
Enables use of cables for outdoor applications

12-fiber ribbons with ribbon IDs
Easy identification

UV-resistant, flame-retardant jacket
Rugged, durable and easy to strip

Available in preconnectorized assemblies
Easy field installation and reduced labor costs

504-864 fibers in a compact design
Maximizes use of critical duct space

Common installations
Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770

Cross Section of Part Number: 864ZVF-14101-20
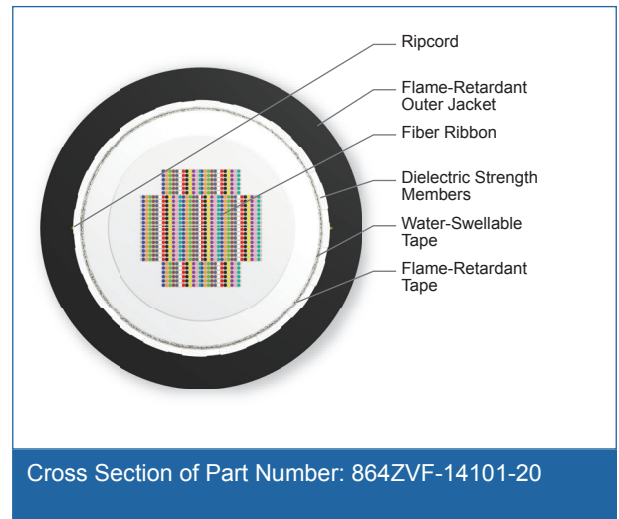
Standards

Listings	National Electrical Code® (NEC®) OFNR
Design Criteria	CSA OFN FT-4
Test Criteria	ANSI/ICEA S-104-696, Telcordia GR-409 and GR-20

CORNING

FREEDM® UltraRibbon™ Gel-Filled Cable, Riser

864 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Specifications

General Specifications

Environment	Indoor/Outdoor
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser)
Cable Type	Ribbon
Product Type	Dielectric
Flame Rating	Riser (OFNR)
Fiber Category	SMF-28® Ultra fiber

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	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Fiber Count	864
Ribbons per Tube	12 and 16
Fibers per Ribbon	24 and 36
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
Tape, Layer 2	Flame-retardant tape
Tape, Layer 3	Water-Swellable
Number of Ripcords	2
Outer Jacket Material	Flame-Retardant, UV-Resistant
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)
Nominal Outer Diameter	25.4 mm (1.0 in)

CORNING

FREEDM® UltraRibbon™ Gel-Filled Cable, Riser

864 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Mechanical Characteristics Cable	
Min. Bend Radius Installation	381 mm (15 in)
Min. Bend Radius Operation	254 mm (10 in)
Weight	577 kg/km (387 lb/1000 ft)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	SMF-28® Ultra fiber
Fiber Category	ITU-T 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	864ZVF-14101-20
Product Description	FREEDM® UltraRibbon™ Gel-Filled Cable, Riser, 864 F, SMF-28® Ultra fiber, Single-mode (OS2)
EAN Code	4056418139418

RoHS COMPLIANT

CORNING