FREEDM® UltraRibbon™ Gel-Free Cable, Riser

288 F, 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: 288EVF-14101D20

Features and Benefits

Up to 864 fibers in a compact design
Maximizes use of critical duct space

Hand-splittable ribbon
Facilitates mass-fusion splicing with 12-fiber units and no stray fibers

12-fiber ribbons individually numbered
Easy identification

Fiber and ribbon geometries
Provide excellent mass fusion splicing results

Flame-retardant, UV-resistant jacket
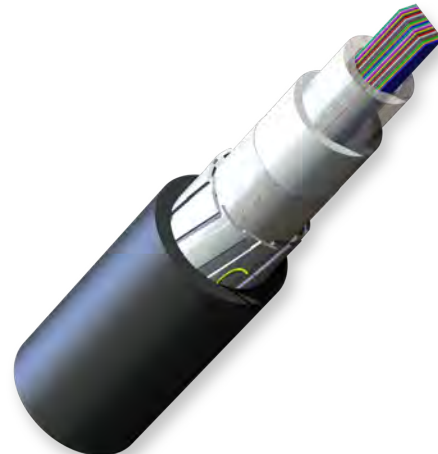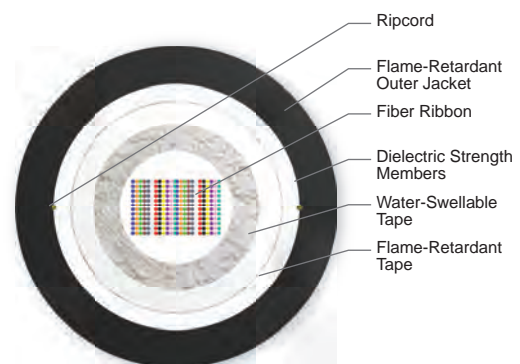Rugged and durable, indoor/outdoor use

Standards

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

Cross Section of Part Number: 288EVF-14101D20

CORNING

FREEDM® UltraRibbon™ Gel-Free Cable, Riser

288 F, Single-mode (OS2)

CORNING

Specifications

General Specifications

Environment	Indoor/Outdoor Cables
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser)
Cable Type	Ribbon
Product Type	Dielectric
Flame Rating	Riser (OFNR)
Fiber Category	Single-mode (OS2)

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	288
Ribbons per Tube	12
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	14.0 mm (0.6 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	21.3 mm (0.89 in)

CORNING

FREEDM® UltraRibbon™ Gel-Free Cable, Riser

288 F, Single-mode (OS2)

CORNING

Mechanical Characteristics Cable	
Min. Bend Radius Installation	319.5 mm (15 in)
Min. Bend Radius Operation	213 mm (10 in)
Weight	338 kg/km (227 lb/1000 ft)

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

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	SMF-28e+® fiber
Fiber Category	G.652.D
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
Typical attenuation	0.33 dB/km / 0.33 dB/km / 0.19 dB/km

* Typical attenuation values match the attenuation values listed in the optical fiber specifications. See www.corning.com/opticalfiber for Corning optical fiber specifications. Better attenuation performance options are available for some fiber and cable types. Contact Customer Care for additional fiber options.
* * SMF-28® Ultra and ClearCurve® XB fiber deliver up to 10x better macrobend loss performance compared to the G.652.D standard and up to 33 percent better macrobend loss performance than the G.657.A1 standard for 10mm radii bends.

Ordering Information

Part Number	288EVF-14101D20
Product Description	FREEDM® UltraRibbon™ Gel-Free Cable, Riser, 288 F, Single-mode (OS2)

RoHS COMPLIANT

CORNING