

FREEDM® UltraRibbon™ Gel-Filled Cable, Riser

CORNING

Features and Benefits

288-432 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

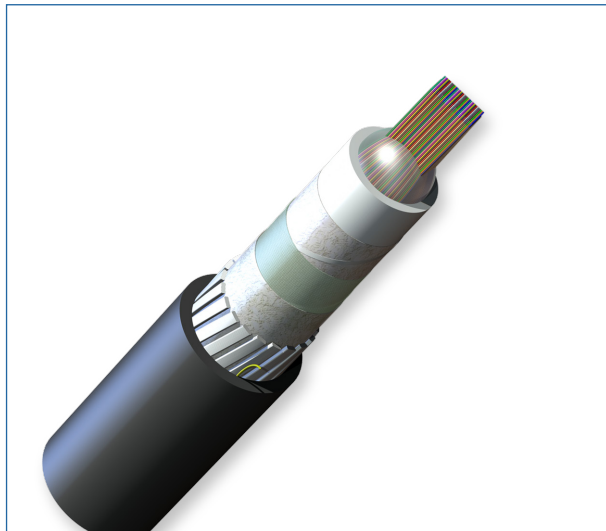
Flame-retardant, UV-resistant jacket
Rugged and durable, indoor/outdoor use

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-fiber ribbons that are easily separated by hand into two 12-fiber ribbons. This cable is also available with interlocking armor for additional mechanical durability.

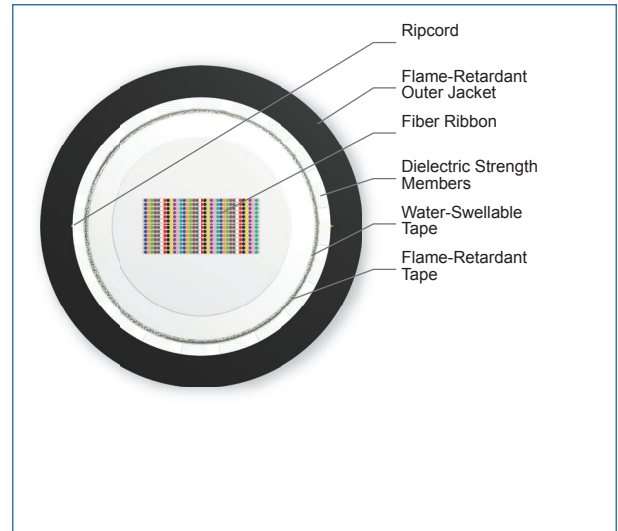
Standards

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



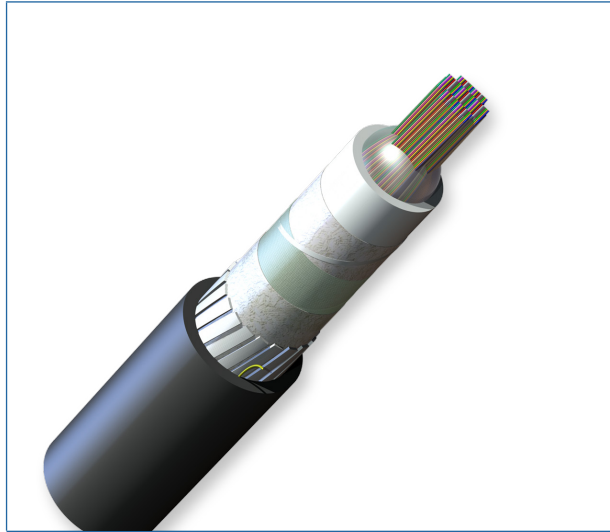
FREEDM UltraRibbon Gel-Filled Cable, Riser, 504-Fibers



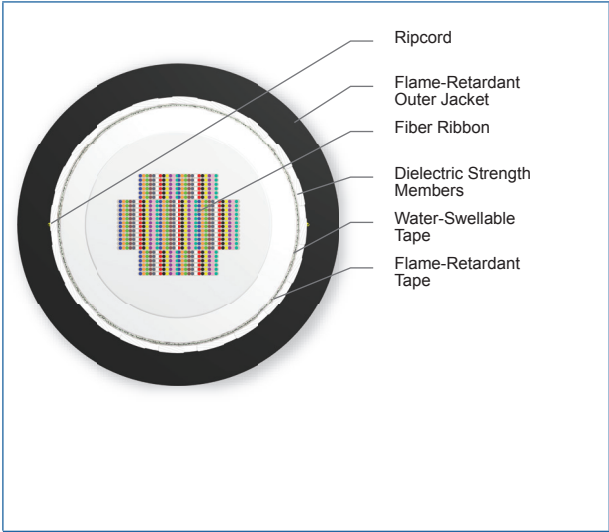
FREEDM UltraRibbon Gel-Filled Cable, Riser, 504-Fibers

CORNING

FREEDM® UltraRibbon™ Gel-Filled Cable, Riser



FREEDM UltraRibbon Gel-Filled Cable, Riser, 720-Fibers



FREEDM UltraRibbon Gel-Filled Cable, Riser, 720-Fibers

Specifications

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)

* Note: Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)

Mechanical Characteristics Cable

Fiber Count	Product Type	Nominal Outer Diameter	Weight	Min. Bend Radius Installation	Min. Bend Radius Operation
504	Dielectric	25.4 mm (1.0 in)	564 kg/km (378 lb/1000 ft)	381 mm (15 in)	254 mm (10 in)
648	Dielectric	25.4 mm (1.0 in)	476 kg/km (319 lb/1000 ft)	381 mm (15 in)	254 mm (10 in)
720	Dielectric	25.4 mm (1.0 in)	572 kg/km (384 lb/1000 ft)	381 mm (15 in)	254 mm (10 in)
864	Dielectric	25.4 mm (1.0 in)	577 kg/km (387 lb/1000 ft)	381 mm (15 in)	254 mm (10 in)

FREEDM[®] UltraRibbon[™] Gel-Filled Cable, Riser



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

Transmission Performance

Multimode	
Fiber Core Diameter (µm)	50
Fiber Category	OM2/OM3/OM4/OM4+
Fiber Code	T
Performance Option Code	80
Wavelengths (nm)	850/1300
Maximum Attenuation (dB/km)	3.0/1.0
Serial 1 Gigabit Ethernet (m)	1000/600
Serial 10 Gigabit Ethernet (m)	300/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	1500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	2000/-

* ITU-T G.652 D compliant.

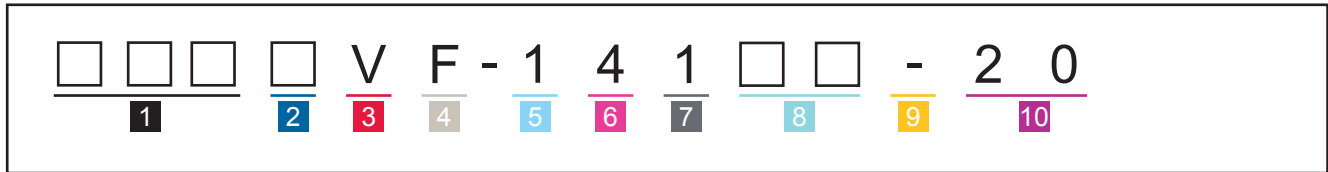
Notes: 1) Contact a Corning Customer Care Representative for additional information.

Single-mode		
Fiber Name	ClearCurve [®] XB**	SMF-28e+ [®] fiber
Fiber Category	G.652.D/G.657.A1	G.652.D
Fiber Code	H	E
Performance Option Code	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3
Typical Attenuation* (dB/km)	0.35/0.35/0.20	0.33/0.33/0.19

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Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*



- 1** Select fiber count.
Standard offerings:
504 648 864
576 720
- 2** Select fiber code.
T = 50 μm multimode,
(OM3/OM4/OM4+)
E = Single-mode (OS2)
SMF-28e+®
H = Bend-improved
Single-mode (OS2)
- 3** Defines cable type.
V = FREEDM® UltraRibbon™
Cable

- 4** Defines outer jacket.
F = Indoor/outdoor riser
- 5** Defines fiber placement.
1 = 24 fibers/ribbon
- 6** Defines length markings.
4 = Markings in ft
(standard)
- 7** Defines tensile strength.
1 = See specifications

- 8** Select performance option code.
80 = 50 μm multimode (OM3)
90 = 50 μm multimode (OM4)
91 = 50 μm multimode (OM4+)
01 = Single-mode (OS2)
(Max. attenuation 0.4/0.4/0.3 dB/km)
- 9** Defines cable type.
- = FREEDM UltraRibbon Cable
- 10** Defines special manufacturing code.
20 = Standard

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
 800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm
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