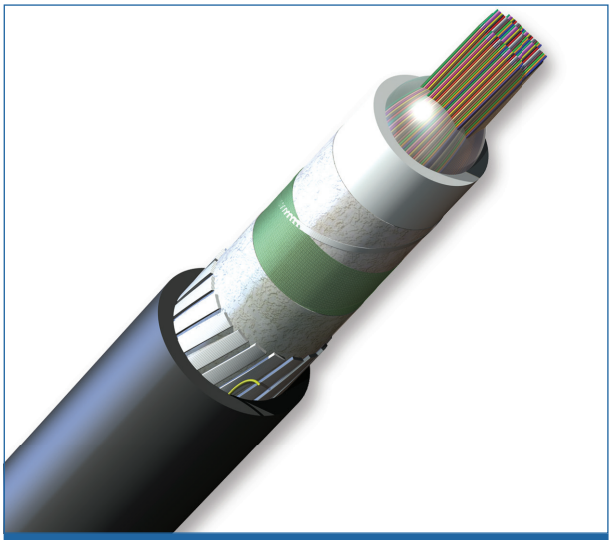
FREEDM® UltraRibbon™ Gel-Filled Cable, Riser

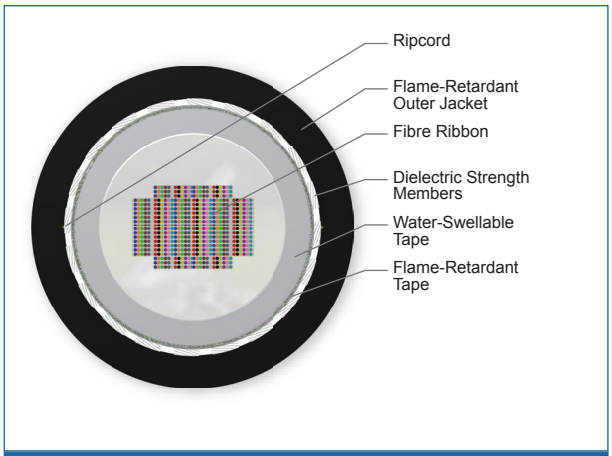
648 fibres, 50 µm multimode, extended 10G distance (OM4)

CORNING

Corning FREEDM® UltraRibbon™ riser cables provide the ultimate solution for indoor/outdoor high-fibre-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-fibre ribbons that are easily separated by hand into two or three 12-fibre ribbons respectively. This cable is also available with interlocking armor for additional mechanical durability.



Part Number: 648TVF-14191-20



Cross Section of Order Number: 648TVF-14191-20

Features and Benefits

Precise fibre and ribbon geometries
Excellent mass splicing yields

Waterblocked cable
Enables use of indoor/outdoor cables

12-fibre 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 fibres 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

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

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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)
Fibre Category	50 µm MM (OM4+)

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

Cable design	
Fibre Count	648
Ribbons per tube	6 and 14
Fibres per Ribbon	24 and 36
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube colour	Natural
Buffer tube diameter	17.9 mm (0.7 in)
Tensile Strength Elements and/or Armouring - 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 colour	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)

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Mechanical Characteristics Cable	
Min. Bend Radius Installation	381 mm (15 in)
Min. Bend Radius Operation	254 mm (10 in)
Weight	569 kg/km (382 lb/1000 ft)

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

Ordering Information

Part Number	648TVF-14191-20
Product Description	FREEDM® UltraRibbon™ Gel-Filled Cable, Riser, 648 fibres, 50 µm multimode, extended 10G distance (OM4)

RoHS COMPLIANT

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