

FREEDM® UltraRibbon™ Gel-Filled Cable, Riser

504 fibres, single-mode (OS2)

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.

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

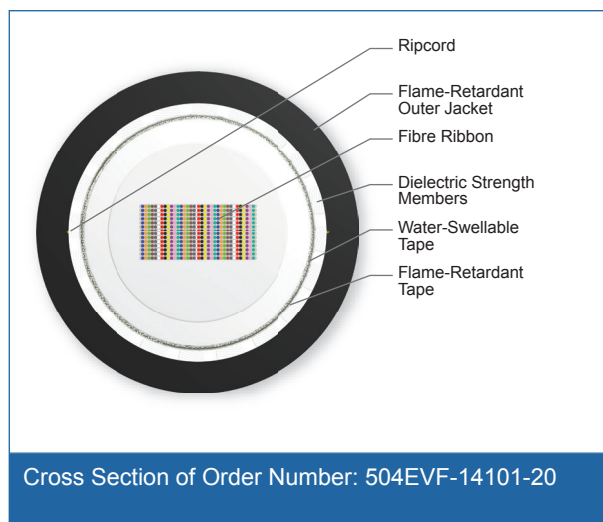
Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770

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 |



Part Number: 504EVF-14101-20



Cross Section of Order Number: 504EVF-14101-20

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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 | single-mode (OS2) |

| 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 | 504 |
| Ribbons per tube | 14 |
| Fibres per Ribbon | 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-swellaable |
| Tape, Layer 2 | Flame-retardant tape |
| Tape, Layer 3 | Water-swellaable |
| 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 | 564 kg/km (378 lb/1000 ft) |

Chemical Characteristics

| | |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
|------|---|

Ordering Information

| | |
|---------------------|---|
| Part Number | 504EVF-14101-20 |
| Product Description | FREEDM® UltraRibbon™ Gel-Filled Cable, Riser, 504 fibres, single-mode (OS2) |
| EAN Code | 4056418148977 |



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