

Reel In A Box, FREEDM® Fan-Out Tight-Buffered Cable, Riser

2 F, 62.5 µm multimode (OM1)

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Reel in a Box is Corning's innovative packaging solution for small reels of fiber optic cable in all inside plant applications, such as collocation data centers and wireless projects. This packaging solution provides features that enable our customers greater efficiencies than before.

Corning FREEDM® fan-out cables are designed for routing inside and outside buildings into riser spaces, to security, surveillance or monitoring cameras, and within telecommunications rooms and workstations. With no need for transition splices when entering a building, this cable provides low-fiber-count connections within building backbone riser and horizontal spaces. The indoor/outdoor temperature and water-resistant performance provides superior protection for applications, like traffic control, with optical feeds in rugged environments.

Ideal for providing direct optical connections from indoor and outdoor surveillance cameras to security control locations, these cables can also provide a secure link for surveillance or data. The flame-retardant, 900 µm TBII Buffered Fibers are available in single-mode and multi-mode and enable easy, consistent stripping while the 2.0 mm subunits enable easy field terminations.

The fibers are surrounded by water-resistant, dielectric strength members and protected by a flexible, flame-retardant outer jacket. These cables meet the application requirements of the National Electrical Code (NEC Article 770) and are OFNR and FT-4 listed and comply with the ICEA S-104-696 tests. The all-dielectric cable construction requires no grounding or bonding, and the small diameter and bend radius allow easy installation in space-constrained areas. FREEDM fan-out cables are also available with approval for TEMPEST applications.

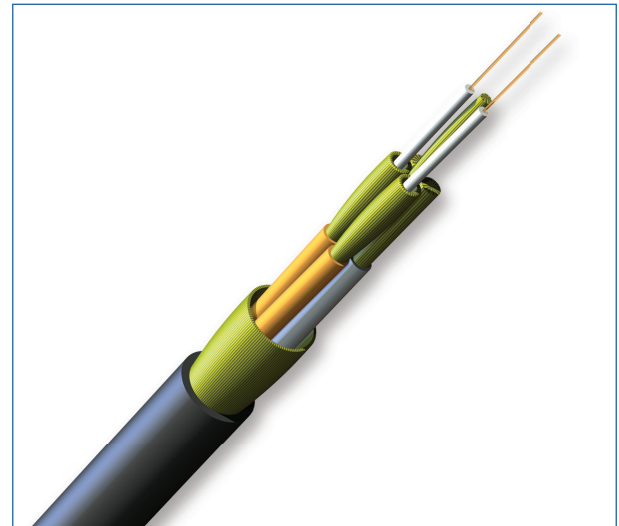
Features and Benefits

"Countdown" print indicates available cable remaining on the reel providing easier inventory management

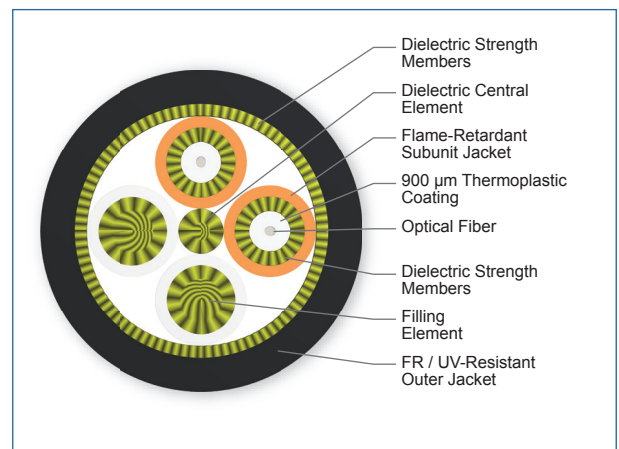
Stackable boxes make storage more manageable

Smaller reel offerings mean smaller cable lengths than would normally be available

Cable cutting at Corning lowers operating expenses for our distributors and end users



Part Number: 002K6F-31330-B1



Cross Section of Part Number: 002K6F-31330-B1

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Standards

| | |
|---------------------------------|---|
| Approvals and Listings | National Electrical Code® (NEC®) OFNR, CSA OFN FT-4 |
| Design and Test Criteria | ICEA S-104-696 |
| Flame Resistance | UL-1666 (for riser and general building applications) |

Specifications

| General Specifications | |
|------------------------|---|
| Environment | Indoor/Outdoor |
| Application | Direct Buried, Duct, General Purpose Horizontal, Vertical Riser |
| Cable Type | Tight-Buffered |
| Product Type | Dielectric |
| Flame Rating | Riser (OFNR) |
| Fiber Category | 62.5 µm MM (OM1) |
| Fiber Length | 150 m (500 ft) |

| Temperature Range | |
|-------------------|------------------------------------|
| Storage | -40 °C to 70 °C (-40 °F to 158 °F) |
| Installation | -10 °C to 70 °C (14 °F to 158 °F) |
| Operation | -40 °C to 70 °C (-40 °F to 158 °F) |

| Cable Design | |
|--------------------------|-------------------------------|
| Central Element | Dielectric |
| Fiber Count | 2 |
| Fiber Coloring | Orange |
| Fibers per Tube | 1 |
| Number of Tube Positions | 4 |
| Number of Active Tubes | 2 |
| Buffer Tube Color Coding | Orange |
| Buffer Tube Diameter | 2.0 mm (0.08 in) |
| Outer Jacket Material | Flame-Retardant, UV-Resistant |
| Outer Jacket Color | Black |

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Mechanical Characteristics Cable

| | |
|-----------------------------------|--------------------------|
| Max. Tensile Strength, Short-Term | 660 N (150 lbf) |
| Max. Tensile Strength, Long-Term | 330 N (75 lbf) |
| Weight | 39 kg/km (86 lb/1000 ft) |
| Nominal Outer Diameter | 6.8 mm (0.27 in) |
| Min. Bend Radius Installation | 102 mm (4.1 in) |
| Min. Bend Radius Operation | 68 mm (2.7 in) |

Chemical Characteristics

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

Fiber Specifications

Optical Characteristics (cabled)

| | |
|---|-------------------------|
| Fiber Core Diameter | 62.5 µm |
| Fiber Category | OM1 |
| Fiber Code | K |
| Performance Option Code | 30 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 3.4 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet | 300 m / 550 m |
| Serial 10 Gigabit Ethernet | 33 m / - |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 220 MHz*km / - |

Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact a Corning Customer Care Representative for additional information.

Ordering Information

| | |
|---------------------|--|
| Part Number | 002K6F-31330-B1 |
| Product Description | Reel in a Box, FREEDM® Fan-Out Tight-Buffered Cable, Riser, 2 F, 62.5 µm multimode (OM1) |
| EAN Code | 4056418139388 |

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Shipping Information

| | |
|--------------------|---|
| Packaging Method | Reel In A Box |
| Dimensions (HxWxD) | 39.37 cm x 39.37 cm x 38.73 cm (15.5 in x 15.5 in x 15.25 in) |



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