

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

CORNING

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

Standards

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

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.

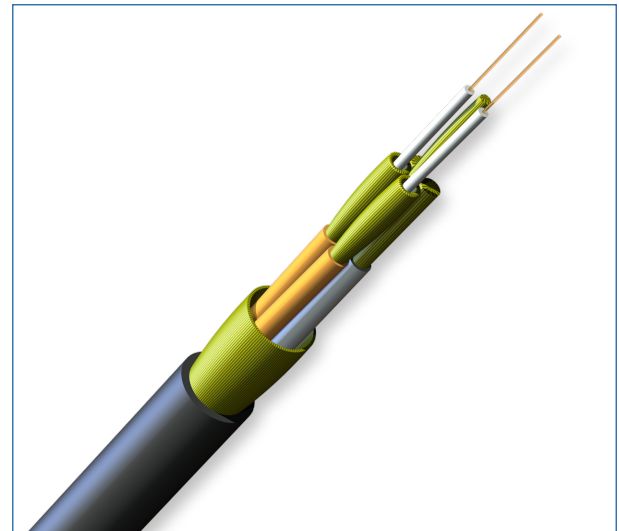
Corning FREEDM® fan-out cables are designed for routing inside and outside buildings into riser spaces, to security, surveillance or monitoring cameras, and within telecommunications rooms and workstations. With no need for transition splices when entering a building, this cable provides low-fiber-count 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. 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.



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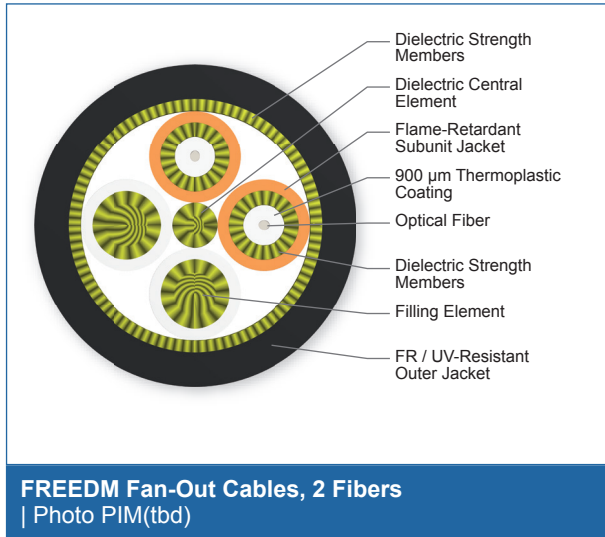


FREEDM Fan-Out Cables, 2 Fibers
| Photo PIM2385

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Specifications

| 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) |

* 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 | 660 N (150 lbf) |
| Max. Tensile Strength, Long-Term | 330 N (75 lbf) |

| Mechanical Characteristics Cable | | | | | |
|----------------------------------|--------------|------------------------|--------------------------|-------------------------------|----------------------------|
| Fiber Count | Product Type | Nominal Outer Diameter | Weight | Min. Bend Radius Installation | Min. Bend Radius Operation |
| Multimode | | | | | |
| 2 - 4 | Dielectric | 6.8 mm (0.27 in) | 39 kg/km (86 lb/1000 ft) | 102 mm (4.1 in) | 68 mm (2.7 in) |
| Single-Mode | | | | | |
| 2 - 4 | Dielectric | 6.8 mm (0.27 in) | 39 kg/km (86 lb/1000 ft) | 102 mm (4.1 in) | 68 mm (2.7 in) |

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Chemical Characteristics

| | |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|---|

Transmission Performance

| Multimode | | | | | |
|--|----------|----------|----------|----------|-----------------------|
| Fiber Core Diameter (µm) | 62.5 | 50 | 50 | 50 | 50 |
| Fiber Category | OM1 | OM2 | OM3 | OM4 | OM4 Extended Distance |
| Fiber Code | K | T | T | T | T |
| Performance Option Code | 30 | 31 | 80 | 90 | 91 |
| Wavelengths (nm) | 850/1300 | 850/1300 | 850/1300 | 850/1300 | 850/1300 |
| Maximum Attenuation (dB/km) | 3.4/1.0 | 2.8/1.0 | 2.8/1.0 | 2.8/1.0 | 2.8/1.0 |
| Serial 1 Gigabit Ethernet (m) | 200/500 | 750/600 | 1000/600 | 1100/600 | 1100/600 |
| Serial 10 Gigabit Ethernet (m) | 220/- | 150/- | 300/- | 550/- | 600/- |
| Min. Overfilled Launch (OFL) Bandwidth (MHz*km) | 300/550 | 700/500 | 1500/500 | 3500/500 | 3500/500 |
| Minimum Effective Modal Bandwidth (EMB) (MHz*km) | 33/- | 950/- | 2000/- | 4700/- | 5350/- |

- Notes: 1) Improved attenuation and bandwidth options available.
 2) Bend-insensitive single-mode fibers available on request.
 3) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
 4) Contact a Corning Customer Care Representative for additional information.

Single-mode

| | | |
|-----------------------------|----------------|------------------|
| Fiber Name | SMF-28e® fiber | ClearCurve® XB** |
| Fiber Category | G.652.D | G.652.D/G.657.A1 |
| Fiber Code | E | H |
| Performance Option Code | 31 | 31 |
| Wavelengths (nm) | 1310/1383/1550 | 1310/1383/1550 |
| Maximum Attenuation (dB/km) | 0.65/0.65/0.50 | 0.65/0.65/0.5 |

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

| | | | | | | | | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|----------|----------|---|----------|----------|----------|----------------------|----------------------|---|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | 6 | F | - | 3 | 1 | 3 | <input type="text"/> | <input type="text"/> | - | <input type="text"/> | <input type="text"/> |
| | | | | | | | | | | | | | | |
| | 1 | | 2 | 3 | 4 | | 5 | 6 | 7 | | 8 | | 9 | 10 |

1 Select fiber count.

Standard offerings:
001-004

2 Select fiber code.

K = 62.5 μm multimode (OM1)
T = 50 μm multimode (OM2/OM3/OM4/OM4+)
E = Single-mode (OS2) SMF-28e+[®] fiber
H = ClearCurve[®] XB Single-mode (OS2)

3 Defines cable type.

6 = Standard for fan-out cables

4 Defines outer jacket.

F = FREEDM[®] Riser Indoor/Outdoor Cable jacket

5 Defines fiber placement.

3 = Two subunits

6 Select length markings.

1 = Markings in ft (standard)

7 Defines subunit diameter.

3 = 2.0 mm subunits

8 Select performance option code.

30 = 62.5 μm multimode (OM1)
31 = 50 μm multimode (OM2)
80 = 50 μm multimode (OM3)
90 = 50 μm multimode (OM4)
91 = 50 μm multimode (OM4+)
31 = Single-mode OS2
(Max. attenuation .65 / .65 / 0.5 dB/km)

9 Defines cable type.

- = Standard for fan-out cables

10 Select reel length.

B1 = 500 ft (150 m)
B2 = 1000 ft (300 m)
B3 = 1500 ft (450 m)
B4 = 2000 ft (600 m)

Reel in a Box Shipping Dimensions (HxWxD)
39.37 x 39.37 x 38.73 cm – 15.5 x 15.5 x 15.25 in

Note: This cable is available in 12 different jacket colors: blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. Black is the standard jacket color using the part number configurator above. Contact Customer Care at 1-800-743-2675 to order other color options.



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