# MIC® Unitized Riser Cables, 36-144 Fibers

CORNING

## Features and Benefits

**900 µm TBII® Buffered Fibers**
Easy, consistent stripping

**Six- or 12-fiber jacketed subunits**
Quick and easy identification

**All-dielectric cable construction**
Requires no grounding or bonding

**Flame-retardant jacket**
Rugged and durable

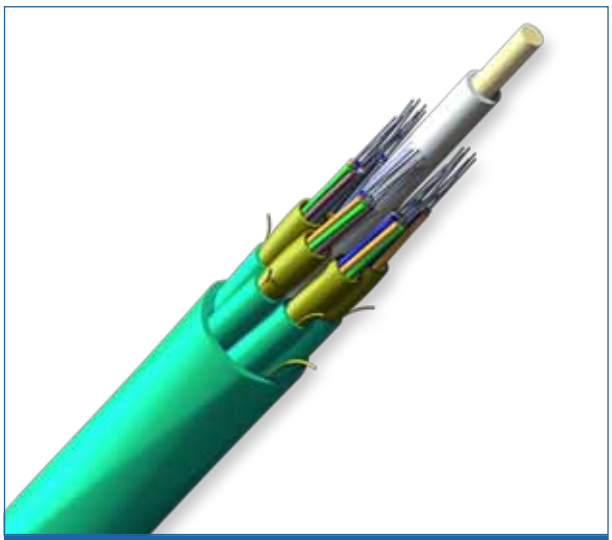
## Standards

| | |
|---|---|
| Approval and Listings | National Electrical Code® (NEC®) OFNR, CSA FT-4, ICEA S-83-596 |
| Flame Resistance | UL-1666 (for riser and general building applications) |

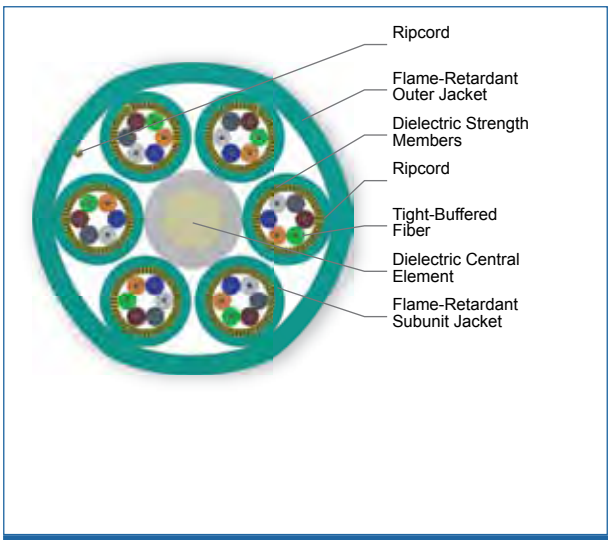
Corning Cable Systems MIC® Unitized Riser Cables are designed for use in riser and general purpose environments for intrabuilding backbone installations. These multifiber cables use individually jacketed 900 µm TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The six or 12-fiber subunits allow quick and easy identification and are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Unitized Riser Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and the ICEA S-83-596 test criteria. They are OFNR and FT-4 listed.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



MIC® Unitized Riser Cables, 36-Fibers

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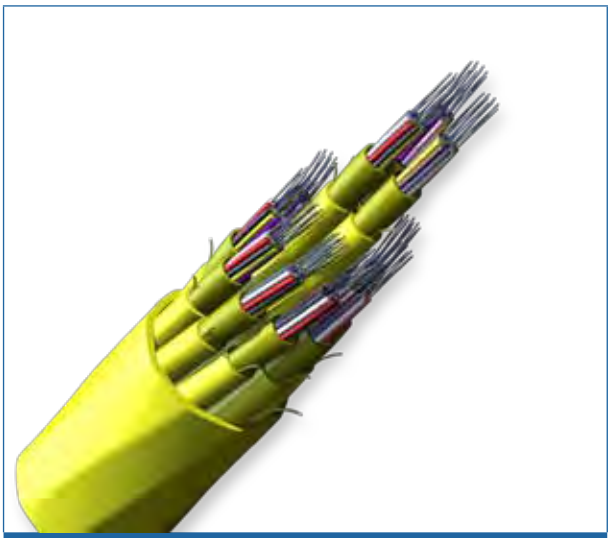
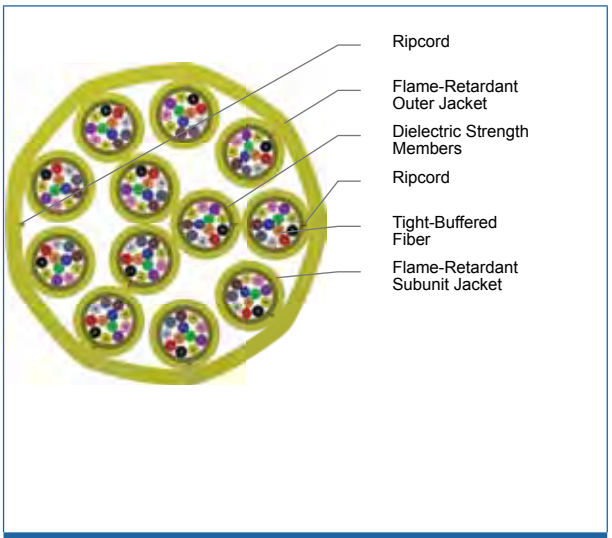


MIC® Unitized Riser Cables, 144-Fibers




MIC® Unitized Riser Cables, 144-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 | -20 °C to 70 °C (-4 °F to 158 °F) |

** Corning Cable Systems 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.*

| Mechanical Characteristics Cable | |
|---|---|
| Max. Tensile Strengths, Short-Term | 1320 N (300 lbf) |
| Max. Tensile Strengths, Long-Term | 400 N (90 lbf) |

| Fiber Count | Product Type | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight |
|---|---|---|---|---|---|
| 6-Fiber Subunits | | | | | |
| 36 | Distribution | 14.8 mm (0.58 in) | 222 mm (8.7 in) | 148 mm (5.8 in) | 186 kg/km (127 lb/1000 ft) |
| 48 | Distribution | 17.8 mm (0.69 in) | 267 mm (10.5 in) | 178 mm (7 in) | 264 kg/km (177 lb/1000 ft) |
| 12-Fiber Subunits | | | | | |
| 60 | Distribution | 17.9 mm (0.7 in) | 269 mm (10.6 in) | 179 mm (7 in) | 233 kg/km (159 lb/1000 ft) |

# MIC® Unitized Riser Cables, 36-144 Fibers

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| Fiber Count | Product Type | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight |
|---|---|---|---|---|---|
| 72 | Distribution | 18.6 mm (0.73 in) | 279 mm (11 in) | 186 mm (7.3 in) | 276 kg/km (190 lb/1000 ft) |
| 96 | Distribution | 22.2 mm (0.87 in) | 333 mm (13.1 in) | 222 mm (8.7 in) | 400 kg/km (268 lb/1000 ft) |
| 144 | Distribution | 23.7 mm (0.93 in) | 355 mm (14 in) | 237 mm (9.3 in) | 409 kg/km (278 lb/1000 ft) |

* Central Member Types: Y = Yarn, G = Glass Reinforced Plastic (GRP), JG = Jacketed GRP
* Fiber arrangement in dual-layer designs is shown in parentheses.
* Example: (9/3) = 9 outside fibers around 3 inner fibers.

## Chemical Characteristics

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

# MIC® Unitized Riser Cables, 36-144 Fibers

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## Transmission Performance

| Fiber Type<br>Fiber Core Diameter (µm) | Multimode<br>62.5 | Multimode<br>50 | Multimode<br>50 | Multimode<br>50 | Multimode<br>50 | Single-mode<br>8.2 |
|---|---|---|---|---|---|---|
| Fiber Category | OM1 | OM2 | OM3 | OM4 | OM4 Extended Distance | OS2 |
| Fiber Code | K | T | T | T | T | E |
| Performance Option Code | 30 | 31 | 80 | 90 | 91 | 31 |
| Wavelengths (nm) | 850 / 1300 | 850 / 1300 | 850 / 1300 | 850 / 1300 | 850 / 1300 | 1310 / 1383 / 1550 |
| Maximum Attenuation (dB/km) | 3.4 / 1.0 | 2.8 / 1 | 2.8 / 1 | 2.8 / 1 | 2.8 / 1 | 0.65 / 0.65 / 0.5 |
| Serial 1 Gigabit Ethernet (m) | 300 / 550 | 750 / 600 | 1000 / 600 | 1100 / 600 | 1100 / 600 | 5000 / - / - |
| Serial 10 Gigabit Ethernet (m) | 33 / - | 150 / - | 300 / - | 550 / - | 600 / - | 10000 / - / 40000 |
| Min. Overfilled Launch (OFL) Bandwidth (MHz*km) | 200 / 500 | 700 / 500 | 1500 / 500 | 3500 / 500 | 3500 / 500 | |
| Minimum Effective Modal Bandwidth (EMB) (MHz*km) | 220 / - | 950 / - | 2000 / - | 4700 / - | 5350 / - | |
| Induced Attenuation @ 7.5 mm Radius (dB) | | | < 30 up to 80 | | | |

* Assumes 1.0 dB maximum total connector/splice loss.
* Assumes 0.7 dB maximum total connector/splice loss.
* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.
* ITU-T G.652 D compliant.

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

# MIC® Unitized Riser Cables, 36-144 Fibers

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## Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

| 1 | 1 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ | 8 | 1 | - | ☐ | ☐ | 1 | ☐ | ☐ | - | 2 | 4 |

**1** Select fiber count.

Standard offerings:

036 060 096
048 072 144

**2** Select fiber code.

K = 62.5 µm multimode, OM1
T = 50 µm multimode, OM2, OM3, OM4, OM4+
E = Single-mode, OS2 SMF-28e®

**3** Defines cable type.

8 = MIC®/MIC Unitized Cable family

**4** Defines outer jacket.

1 = Riser

**5** Select number of fibers per subunit.

61 = 6 fibers per subunit (036-048 fibers)
T3 = 12 fibers per subunit (060-144 fibers)

**6** Defines tensile strength.

1 = See Specifications.

**7** 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 dB/km)

**8** Defines cable type.

- = MIC®/MIC Unitized Cable

**9** Defines special requirements.

24 = Standard for MIC Unitized Riser Cables

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

RoHS COMPLIANT

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