

# MIC<sup>®</sup> Unitized Tight-Buffered, Interlocking Armored Cables, Riser, 36-144 Fibers



## Features and Benefits

### Aluminum interlocking armor

Up to seven times crush protection compared to unarmored

### 900 μm buffered fibers

Easy, consistent stripping

### 6-, 12- or 24-fiber jacketed subunits

Quick and easy identification

### Flame-retardant jacket

Rugged and durable

## Standards

### Listings

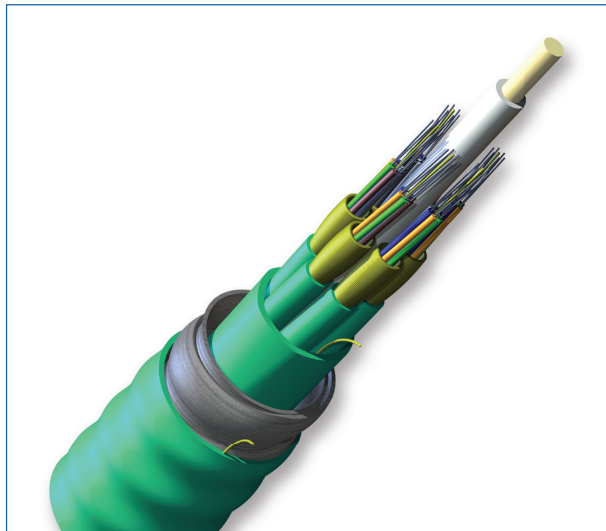
National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) OFCR, FT-4

### Design and Test Criteria

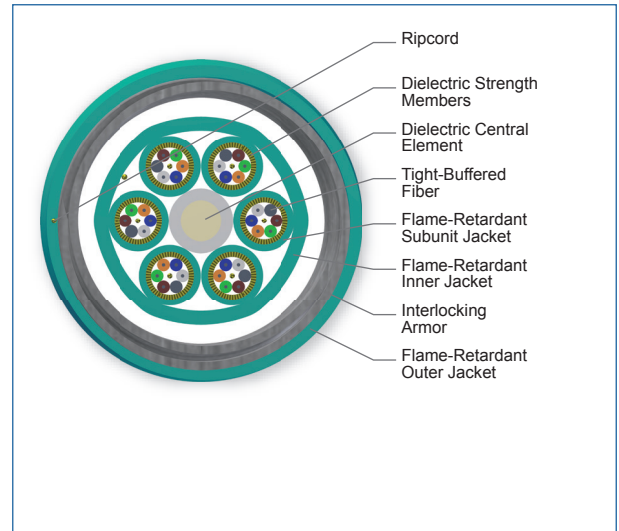
UL-1666 and FT-4 (for riser and general building applications); ICEA S-83-596

Corning MIC<sup>®</sup> interlocking armored riser cables are designed for use in intrabuilding backbone and horizontal installations. They use individually jacketed 900 μm buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into 6-, 12-, or 24-fiber jacketed subunits and surrounded by a dielectric central member. The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and up to six times the crush protection of non-interlocking armored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

*This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, 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.*



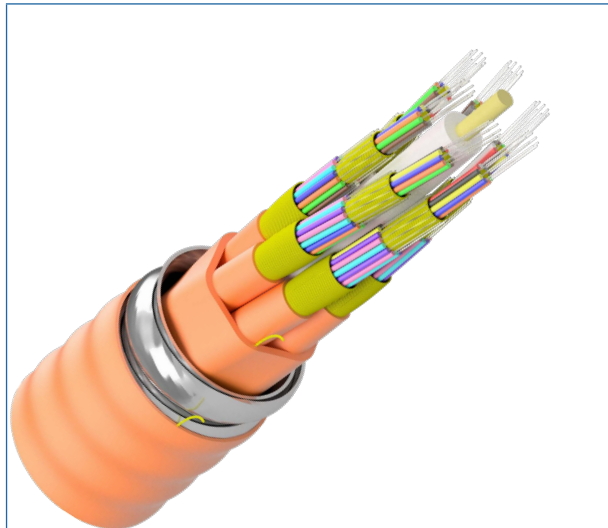
MIC<sup>®</sup> Unitized Interlocking Armored Riser Cables, 36-Fibers



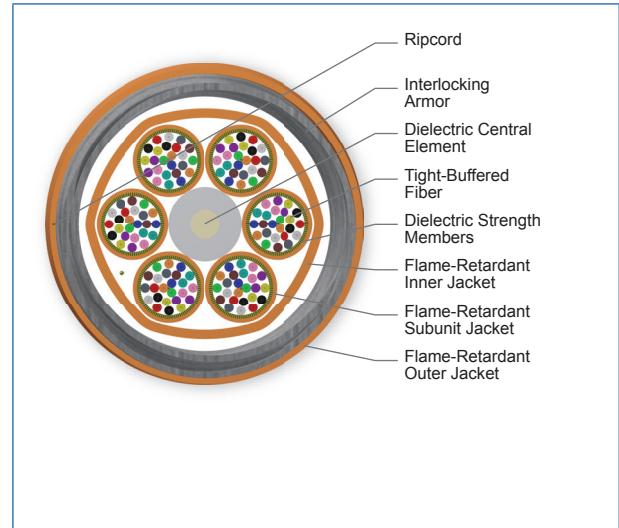
MIC<sup>®</sup> Unitized Interlocking Armored Riser Cables, 36-Fibers

# MIC<sup>®</sup> Unitized Tight-Buffered, Interlocking Armored Cables, Riser, 36-144 Fibers

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MIC<sup>®</sup> Unitized Interlocking Armored Riser Cables, 144-Fibers



MIC<sup>®</sup> Unitized Interlocking Armored 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)  |

\* 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.

### Mechanical Characteristics Cable

|                                   |                  |
|-----------------------------------|------------------|
| Max. Tensile Strength, Long-Term  | 89 lbf (400 N)   |
| Max. Tensile Strength, Short-Term | 1320 N (300 lbf) |

| Fiber Count | Subunit Diameter  | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight                         |
|-------------|-------------------|------------------------|-------------------------------|----------------------------|--------------------------------|
| 36          | 4.40 mm (0.17 in) | 22.5 mm (0.89 in)      | 338 mm (13.3 in)              | 225 mm (8.9 in)            | 349.6 kg/km (234.9 lb/1000 ft) |
| 48          | 4.40 mm (0.17 in) | 24.9 mm (0.98 in)      | 374 mm (14.7 in)              | 249 mm (9.8 in)            | 445.9 kg/km (299.6 lb/1000 ft) |
| 60          | 5.55 mm (0.22 in) | 24.9 mm (.98 in)       | 374 mm (14.7 in)              | 249 mm (9.8 in)            | 421.0 kg/km (282.9 lb/1000 ft) |

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| Fiber Count | Subunit Diameter  | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight                           |
|-------------|-------------------|------------------------|-------------------------------|----------------------------|----------------------------------|
| 72          | 5.55 mm (0.22 in) | 26.2 mm (1.03 in)      | 393 mm (15.5 in)              | 262 mm (10.3 in)           | 474.1 kg/km (318.6 lb/1000 ft)   |
| 96          | 6.80 mm (0.27 in) | 26.2 mm (1.03 in)      | 393 mm (15.47 in)             | 262 mm (10.31 in)          | 474.56 kg/km (318.89 lb/1000 ft) |
| 144         | 6.80 mm (0.27 in) | 31.3 mm (1.23 in)      | 469.5 mm (18.48 in)           | 313 mm (12.32 in)          | 672.7 kg/km (452.03 lb/1000 ft)  |

## Chemical Characteristics

RoHS

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

## 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)                    | 300/550  | 750/600  | 1000/600 | 1000/600 | 1100/600              |
| Serial 10 Gigabit Ethernet (m)                   | 33/-     | 150/-    | 300/-    | 550/-    | 600/-                 |
| 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/-                |

\* 50 μm multimode fiber (OM3/OM4/OM4+) meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

\* 50 μm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

\* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.

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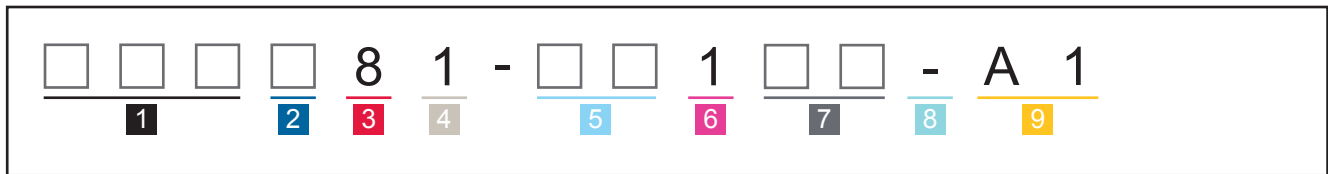
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| Single-mode                 |                            |                                 |
|-----------------------------|----------------------------|---------------------------------|
| Fiber Name                  | SMF-28e <sup>®</sup> fiber | SMF-28 <sup>®</sup> Ultra fiber |
| Fiber Category              | G.652.D                    | G.652.D/G.657.A1                |
| Fiber Code                  | E                          | Z                               |
| Performance Option Code     | 31                         | 31                              |
| Wavelengths (nm)            | 1310/1383/1550             | 1310/1383/1550                  |
| Maximum Attenuation (dB/km) | 0.4/0.4/0.4                | 0.4/0.4/0.4                     |

\* Improved attenuation and bandwidth options available.  
 \* Bend-insensitive single-mode fibers available on request.  
 \* Contact a Corning Customer Care Representative for additional information.

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



- 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<sup>®</sup>  
Z = Single-mode (OS2) SMF-28<sup>®</sup> Ultra fiber
- 3** Defines cable type.  
8 = MIC<sup>®</sup>/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 (060-072 fibers)  
Y3 = 24 fibers per subunit (096-144 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 / 0.5 dB/km)
- 8** Defines cable type.  
- = MIC<sup>®</sup>/MIC Unitized cable
- 9** Defines special manufacturing code.  
A1 = Aluminum interlocking armor with riser-rated jacket

Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, 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 part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

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## Notes



**Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA**

**800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)**

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