

# MIC® Tight-Buffered Cables, Riser, 2-24 Fibers

CORNING

## Features and Benefits

### 900 $\mu$ m buffered fibers

Easy, consistent stripping

### All-dielectric cable construction

Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable

## Standards

### Listings

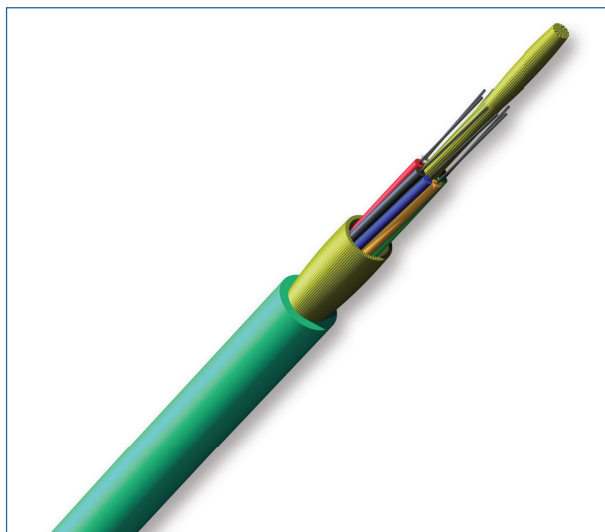
National Electrical Code®  
(NEC®) OFNR, FT-4

### Design and Test Criteria

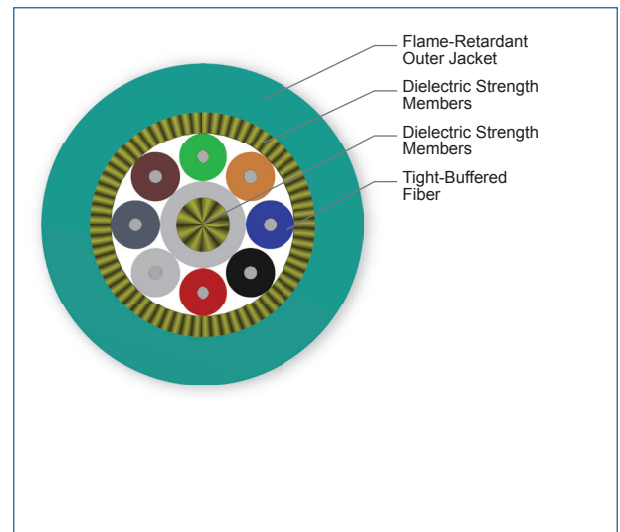
UL-1666 and CSA FT-4 (for riser and general building applications); ICEA S-83-596

Corning MIC® riser cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900  $\mu$ m buffered fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

*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 Riser Cables, 8 Fibers  
| Photo PIM0849

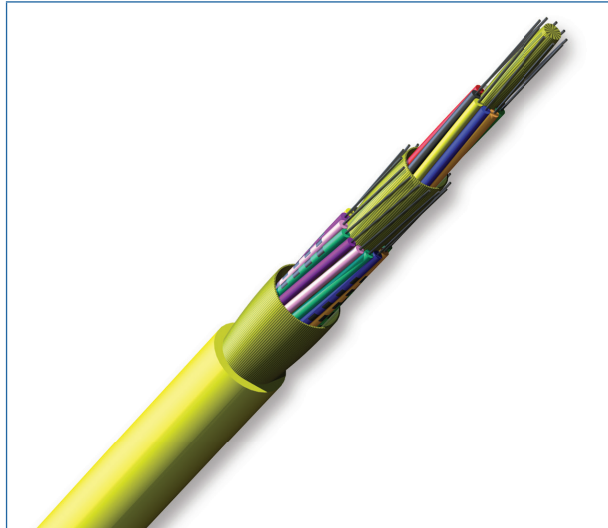


MIC Riser Cables, 8 Fibers  
| Photo PIM1749

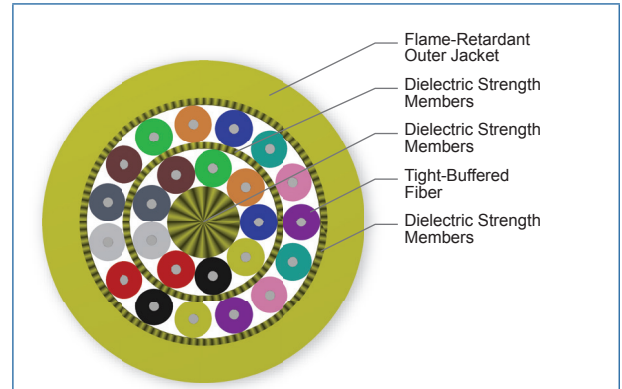
CORNING

# MIC<sup>®</sup> Tight-Buffered Cables, Riser, 2-24 Fibers

CORNING



MIC Riser Cables, 24-Fibers  
| Photo PIM0856



MIC Riser Cables, 24-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 |                  |                |                |
|-----------------------|------------------|----------------|----------------|
| Short-Term            |                  | Long-Term      |                |
| ≤12F                  | >12F             | ≤12F           | >12F           |
| 660 N (150 lbf)       | 1320 N (300 lbf) | 200 N (45 lbf) | 400 N (90 lbf) |

| Fiber Count | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight                        |
|-------------|------------------------|-------------------------------|----------------------------|-------------------------------|
| Dual-Layer  |                        |                               |                            |                               |
| 12          | 6.10 mm (0.24 in)      | 91.5 mm (3.60 in)             | 61 mm (2.40 in)            | 30.1 kg/km (20.23 lb/1000 ft) |
| 18          | 6.80 mm (0.26 in)      | 97.5 mm (3.83 in)             | 68 mm (2.67 in)            | 37.1 kg/km (24.83 lb/1000 ft) |

CORNING

# MIC® Tight-Buffered Cables, Riser, 2-24 Fibers

CORNING

| Fiber Count  | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation | Weight                           |
|--------------|------------------------|-------------------------------|----------------------------|----------------------------------|
| 24           | 7.35 mm<br>(0.29 in)   | 110.25 mm<br>(4.34 in)        | 73.5 mm<br>(2.89 in)       | 47.0 kg/km<br>(28.88 lb/1000 ft) |
| Single-Layer |                        |                               |                            |                                  |
| 2            | 4.30 mm<br>(0.17 in)   | 64.5 mm<br>(2.5 in)           | 43 mm<br>(1.69 in)         | 14.7 kg/km<br>(9.88 lb/1000 ft)  |
| 4            | 4.60 mm<br>(0.18 in)   | 69 mm<br>(2.71 in)            | 46 mm<br>(1.81 in)         | 17.6 kg/km<br>(11.82 lb/1000 ft) |
| 6            | 5.10 mm<br>(0.20 in)   | 76.5 mm<br>(3.01 in)          | 51 mm<br>(2.00 in)         | 21.1 kg/km<br>(14.18 lb/1000 ft) |
| 8            | 5.55 mm<br>(0.22 in)   | 83.25 mm<br>(3.28 in)         | 55.5 mm<br>(2.18 in)       | 24.4 kg/km<br>(16.40 lb/1000 ft) |

## 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.

CORNING

# MIC® Tight-Buffered Cables, Riser, 2-24 Fibers

CORNING

| Single-mode                 |                |                     |
|-----------------------------|----------------|---------------------|
| Fiber Name                  | SMF-28e® fiber | SMF-28® 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.

\* 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

\* Contact a Corning Customer Care Representative for additional information.

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

8

1

-

3

1

-

2

4

1

2

3

4

5

6

7

8

9

10

### 1 Select fiber count.

Standard offerings:

002 006 012 024  
004 008 018

### 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  
Z = Single-mode (OS2) SMF-28® Ultra fiber

### 3 Defines cable type.

8 = Standard for MIC® cable

### 4 Defines outer jacket.

1 = Standard for riser

### 5 Defines fiber placement.

3 = Standard

### 6 Select length markings.

1 = Markings in ft (fiber count ≤ 10)  
3 = Markings in ft (fiber count > 10)

### 7 Defines tensile strength.

1 = See specifications

### 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 MIC cable

### 10 Defines special requirements.

24 = Standard for MIC riser cable

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.

CORNING

# MIC® Tight-Buffered Cables, Riser, 2-24 Fibers

The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

CORNING

## *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)**

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2019 Corning Optical Communications. All rights reserved.

The Corning logo consists of the word "CORNING" in a large, black, uppercase, sans-serif font.

CORNING