

MIC® Unitized Riser Cables, 36-144 Fibers

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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

Approvals and Listings

National Electrical Code® (NEC®) OFNR, CSA FT-4, ICEA S-83-596

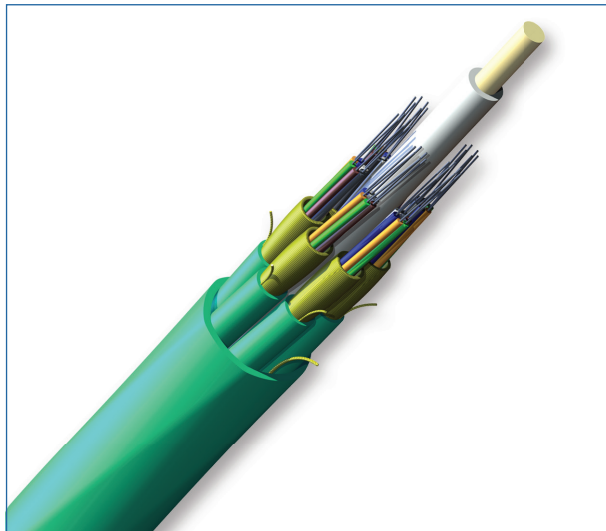
Flame Resistance

UL-1666 (for riser and general building applications)

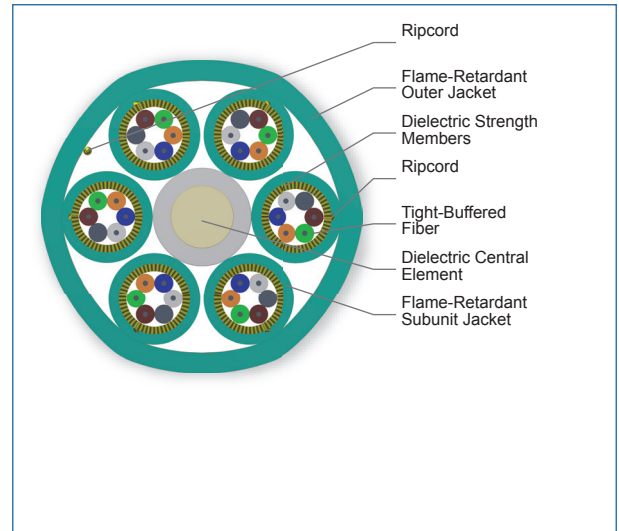
Corning MIC® unitized riser cables are designed for use in riser and general purpose environments for intra-building backbone installations. These multifiber cables use individually jacketed 900 µm TBII® buffered fibers enabling easy, consistent stripping and facilitating termination. The 6- or 12-fiber 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, 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 Unitized Riser Cables, 36 Fibers | Photo PIM0861

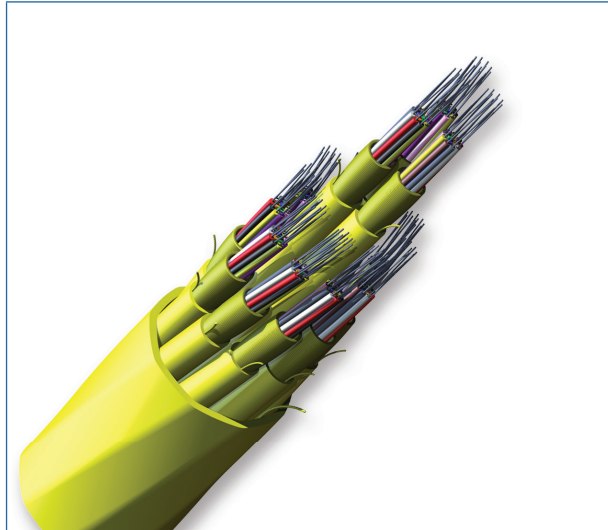


MIC Unitized Riser Cables, 36 Fibers | Photo PIM1761

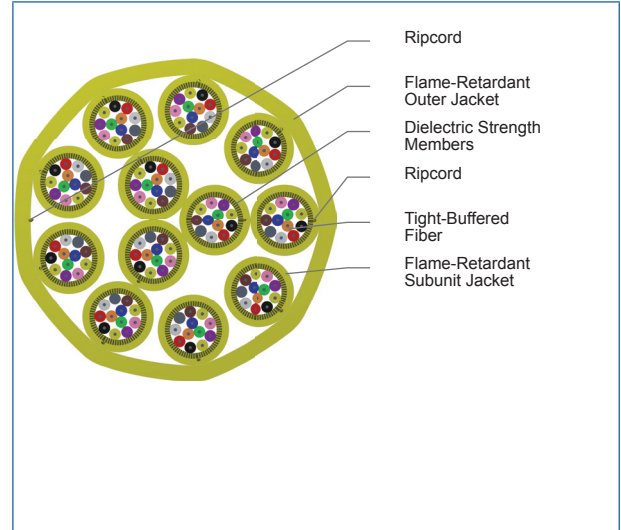
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MIC[®] Unitized Riser Cables, 36-144 Fibers

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MIC Unitized Riser Cables, 144 Fibers | Photo PIM0874



MIC Unitized Riser Cables, 144 Fibers | Photo PIMtbd

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.

Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)

Mechanical Characteristics Cable

Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
12-Fiber Subunits						
60	Jacketed GRP	17.9 mm (0.7 in)	269 mm (10.6 in)	179 mm (7.0 in)	233 kg/km (159 lb/1000 ft)	Distribution

* 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.

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Mechanical Characteristics Cable

Fiber Count	Central Element	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
72	Jacketed GRP	18.6 mm (0.73 in)	279 mm (11 in)	186 mm (7.3 in)	276 kg/km (190 lb/1000 ft)	Distribution
96	Jacketed GRP	22.2 mm (0.87 in)	333 mm (13.1 in)	222 mm (8.7 in)	400 kg/km (268 lb/1000 ft)	Distribution
144	Jacketed GRP	23.7 mm (0.93 in)	355 mm (14 in)	237 mm (9.3 in)	409 kg/km (278 lb/1000 ft)	Distribution
6-Fiber Subunits						
36	Jacketed GRP	14.8 mm (0.58 in)	222 mm (8.7 in)	148 mm (5.8 in)	186 kg/km (127 lb/1000 ft)	Distribution
48	Jacketed GRP	17.8 mm (0.69 in)	267 mm (10.5 in)	178 mm (7 in)	264 kg/km (177 lb/1000 ft)	Distribution

* 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
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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/-

* 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 Plug and 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 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.

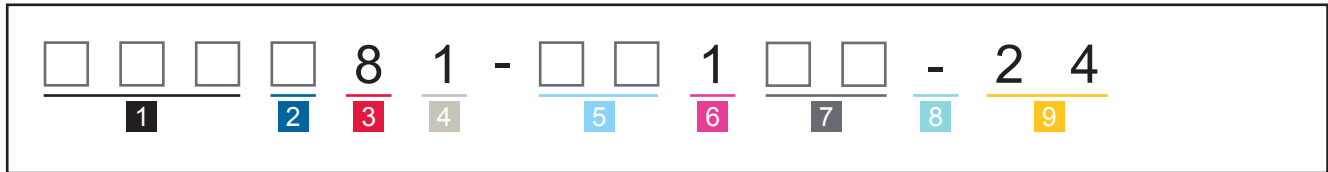
Single-mode	
Fiber Name	SMF-28e [®] fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50

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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 μ m multimode (OM1)
T = 50 μ m multimode,
(OM2/OM3/OM4/OM4+)
E = Single-mode (OS2)
SMF-28e+[®]
H = ClearCurve[®] XB
Single-mode (OS2)

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

8 Defines cable type.
- = MIC[®]/MIC Unitized Cable

9 Defines special
requirements.
24 = Standard for MIC Unitized
Riser Cables

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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