

MIC[®] Interlocking Armored Riser Cables, 2-24 Fibers

CORNING

Features and Benefits

Aluminum interlocking armor

Seven times crush protection compared to unarmored

TBII buffered fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Standards

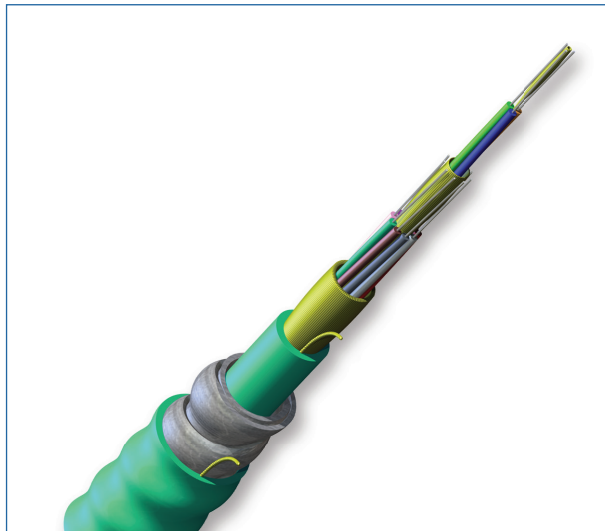
Approvals and Listings

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

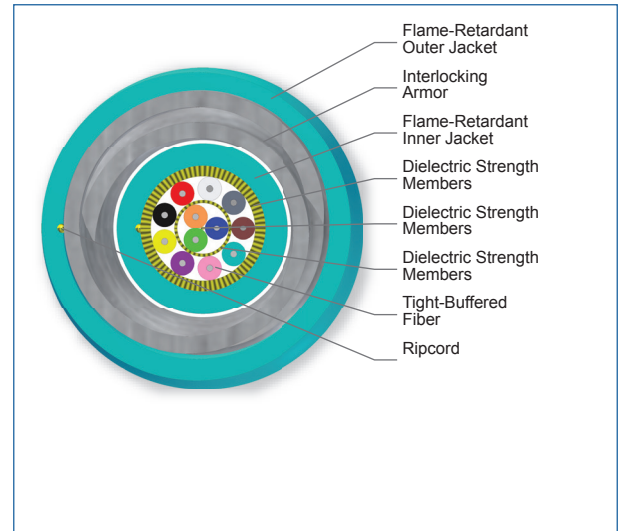
Flame Resistance

UL-1666 (for riser and general building applications)

Corning MIC[®] interlocking armored riser cables are designed for use in intrabuilding backbone and horizontal installations. They use individually jacketed TBII[®] buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed sub-units 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 over seven times the crush protection of unarmored 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.



MIC Interlocking Armored Riser Cables, 12 Fibers
| Photo PIM0930

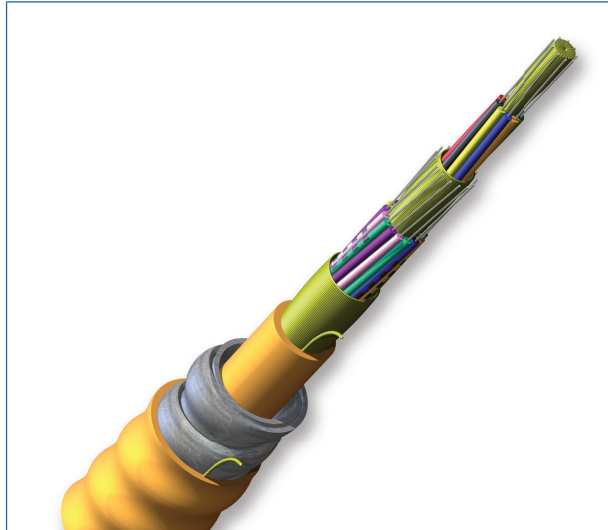


MIC Interlocking Armored Riser Cables, 12 Fibers
| Photo PIM1830

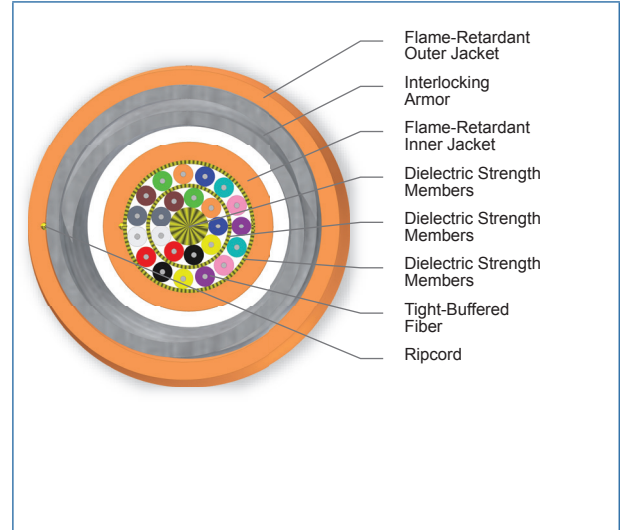
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MIC[®] Interlocking Armored Riser Cables, 2-24 Fibers

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MIC Interlocking Armored Riser Cables, 24 Fibers
| Photo PIM0935



MIC Interlocking Armored Riser Cables, 24 Fibers
| Photo PIM1835

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					
Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
2	4.7 mm (0.19 in)	11.9 mm (0.47 in)	179 mm (7.04 in)	119 mm (4.7 in)	14.7 kg/km (9.88 lb/1000 ft)
4	5.0 mm (0.20 in)	11.9 mm (0.47 in)	179 mm (7.04 in)	119 mm (4.7 in)	17.6 kg/km (11.82 lb/1000 ft)
6	5.5 mm (0.22 in)	11.9 mm (0.47 in)	179 mm (7.04 in)	119 mm (4.7 in)	21.1 kg/km (14.18 lb/1000 ft)
8	6.0 mm (0.24 in)	11.9 mm (0.47 in)	179 mm (7.04 in)	119 mm (4.7 in)	24.4 kg/km (16.40 lb/1000 ft)
12	6.3 mm (0.25 in)	12.6 mm (0.49 in)	189 mm (7.4 in)	126 mm (4.9 in)	30.1 kg/km (20.23 lb/1000 ft)

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Mechanical Characteristics Cable

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
18	7.4 mm (0.29 in)	13.7 mm (0.54 in)	206 mm (8.1 in)	137 mm (5.4 in)	37.1 kg/km (24.83 lb/1000 ft)
24	8.0 mm (0.31 in)	14.9 mm (0.59 in)	225 mm (8.9 in)	150 mm (5.9 in)	47.0 kg/km (28.88 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)	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/-

* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

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

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

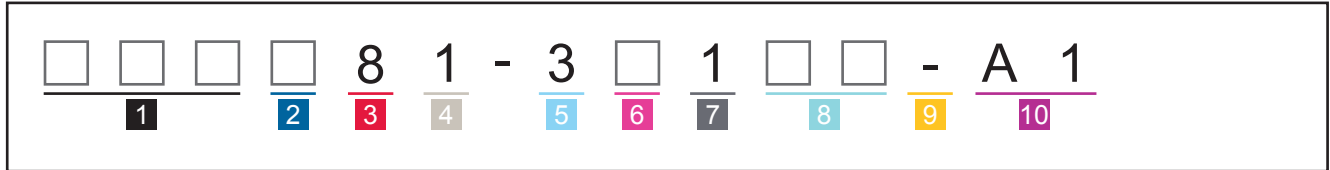
Fiber Name	SMF-28e [®] fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50

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



1 Select fiber count.

Standard offerings:
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
H = ClearCurve[®] XB
Single-mode (OS2)

3 Defines cable type.

8 = MIC[®] cable (standard)

4 Defines outer jacket.

1 = Riser

5 Defines fiber placement.

3 = Standard

6 Select length markings.

1 = Markings in ft
(fiber count < 12)
3 = Markings in ft
(fiber count ≥ 12)

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.

- = MIC cable (standard)

10 Defines special manufacturing code.

A1 = Aluminum interlocking armor
with plenum-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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