

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

CORNING

Features and Benefits

Aluminum interlocking armor

Seven times crush protection compared to unarmored

900 μ m TBII[®] Buffered Fibers

Easy, consistent stripping

Six- or 12-fiber jacketed subunits

Quick and easy identification

Flame-retardant jacket

Rugged and durable

Standards

Approvals and Listings

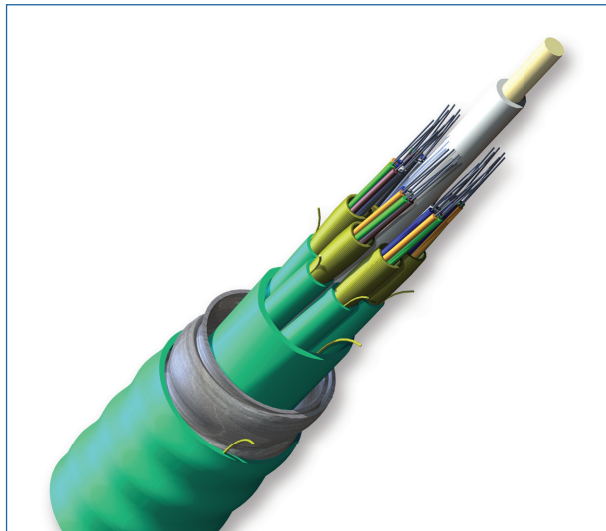
National Electrical Code[®]
(NEC[®]) OFCR, CSA FT-4,
ICEA S-83-596

Flame Resistance

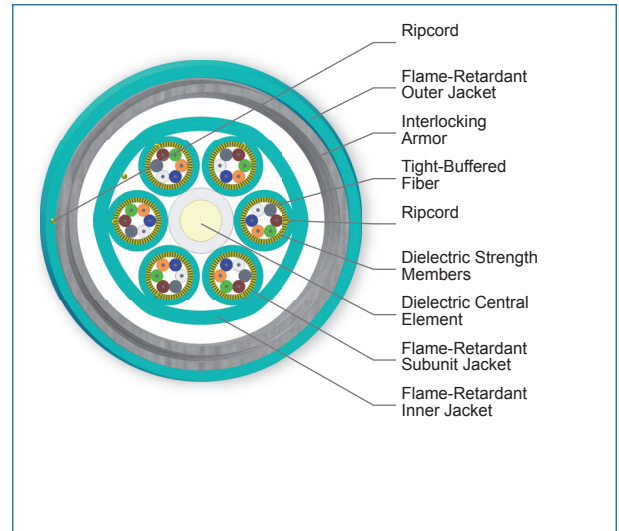
UL-1666 (for riser and general building applications)

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 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 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.

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.



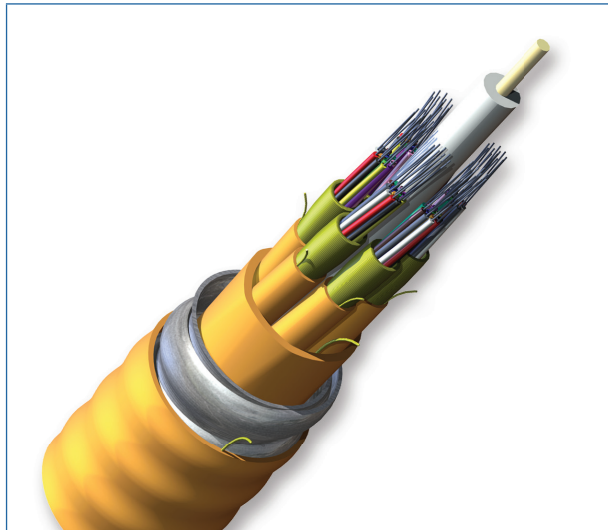
MIC[®] Unitized Interlocking Armored Riser Cables, 36-Fibers



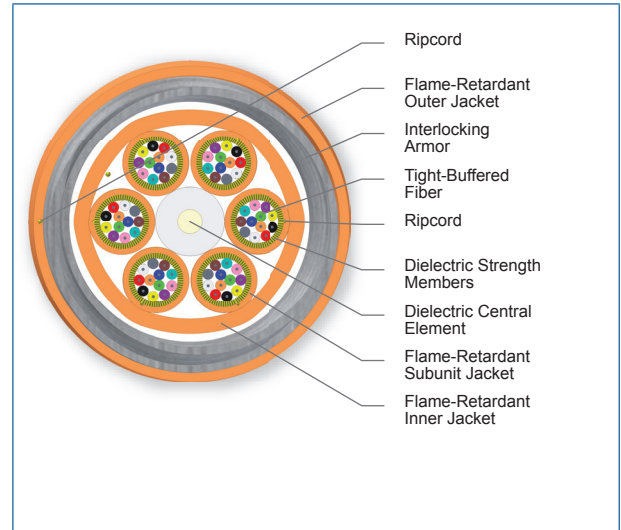
MIC[®] Unitized Interlocking Armored Riser Cables, 36-Fibers

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

CORNING



MIC[®] Unitized Interlocking Armored Riser Cables, 72-Fibers



MIC[®] Unitized Interlocking Armored Riser Cables, 72-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.

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

Mechanical Characteristics Cable

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
36	14.8 mm (0.58 in)	23.6 mm (0.93 in)	354 mm (14 in)	236 mm (9.3 in)	430 kg/km (289 lb/1000 ft)	Interlocking armor
48	17.8 mm (0.69 in)	25.9 mm (1.02 in)	389 mm (15.3 in)	259 mm (10.2 in)	537 kg/km (361 lb/1000 ft)	Interlocking armor
60	17.9 mm (0.7 in)	25.9 mm (1.02 in)	389 mm (15.3 in)	259 mm (10.2 in)	506 kg/km (340 lb/1000 ft)	Interlocking armor

CORNING

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

CORNING

Mechanical Characteristics Cable

Fiber Count	Nominal Inner Cable Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Product Type
72	18.6 mm (0.73 in)	27.4 mm (1.08 in)	411 mm (16.2 in)	274 mm (10.8 in)	564 kg/km (379 lb/1000 ft)	Interlocking armor
96	22.2 mm (0.86 in)	31.2 mm (1.23 in)	468 mm (18.4 in)	312 mm (12.2 in)	732 kg/km (491 lb/1000 ft)	Interlocking armor
144	23.7 mm (0.92 in)	32.5 mm (1.28 in)	488 mm (19.2 in)	325 mm (12.8 in)	756 kg/km (508 lb/1000 ft)	Interlocking armor

Chemical Characteristics

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

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.

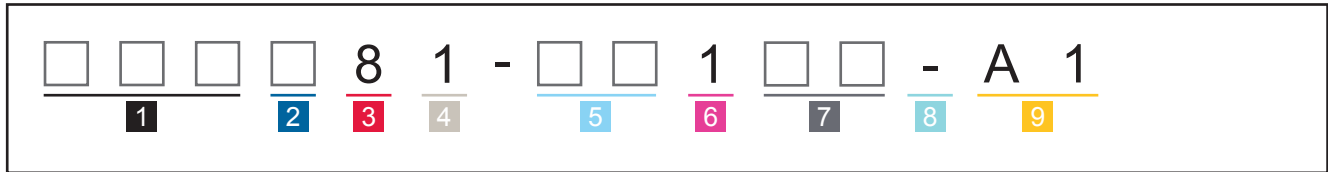
4) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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



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

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[®]
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 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[®]/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.

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

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

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2014 Corning Optical Communications. All rights reserved.

CORNING