

# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50  $\mu$ m multimode (OM4)

CORNING

Corning MIC<sup>®</sup> interlocking armored plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed 900  $\mu$ m 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 up to 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.*

## Features and Benefits

### Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

### TBII buffered fibers

Easy, consistent stripping

### Flame-retardant jacket

Rugged and durable

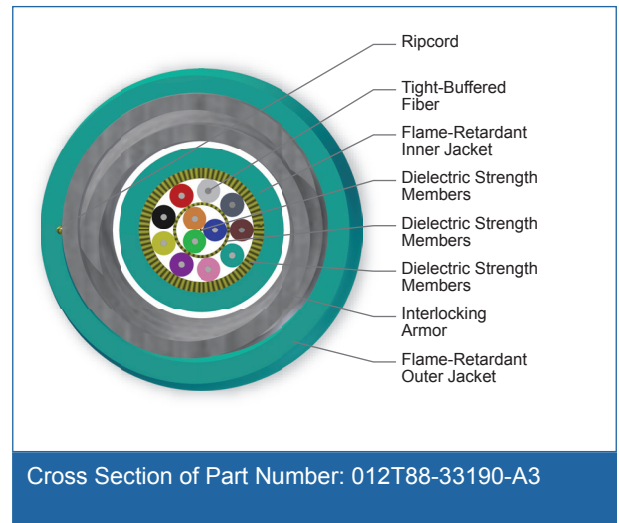
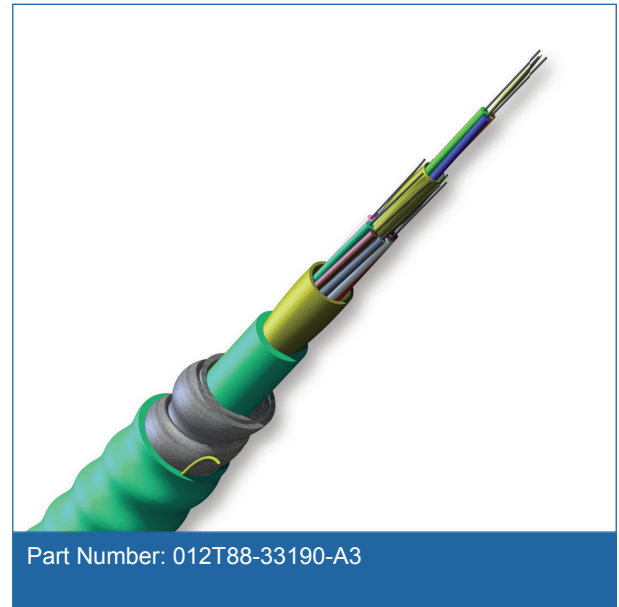
## Standards

### Approvals and Listings

National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) OFCP, CSA FT-6, ICEA S-83-596

### Flame Resistance

NFPA 262 (for plenum, riser and general building applications)



# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM4)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM4)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term, ≤12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, >12F	660 N (160 lbf)
Max. Tensile Strength, Long-Term, ≤12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, >12F	200 N (45 lbf)
Nominal Outer Diameter	0.45 in (11.3 mm)
Nominal Inner Cable Diameter	6.0 mm (0.24 in)

# MIC<sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM4)

CORNING

## Mechanical Characteristics Cable

Min. Bend Radius Operation	4.5 in (113 mm)
Weight	113 kg/km (76 lb/1000 ft)
Min. Bend Radius Installation	170 mm (6.7 in)
Max. Tensile Strength, Short-Term	440 N (100 lbf)
Max. Tensile Strength, Long-Term	132 N (30 lbf)

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -

## Ordering Information

Part Number	012T88-33190-A3
Product Description	MIC <sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum, 12 F, 50 µm multimode (OM4)
EAN Code	4056418178103



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.

© 2016 Corning Optical Communications. All rights reserved.

CORNING