

# MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, Single-mode (OS2)

CORNING

Corning Cable Systems MIC® Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multi-fiber cables 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.

## Features and Benefits

### Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

### TBII® Buffered Fibers

Easy, consistent stripping

### Flame-retardant jacket

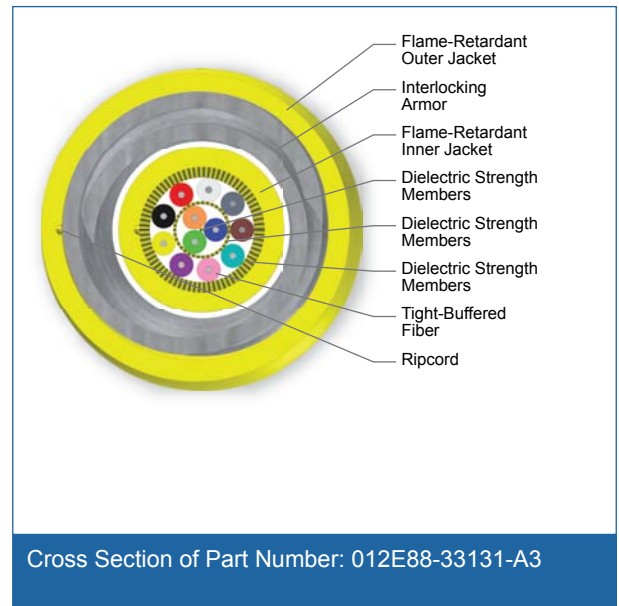
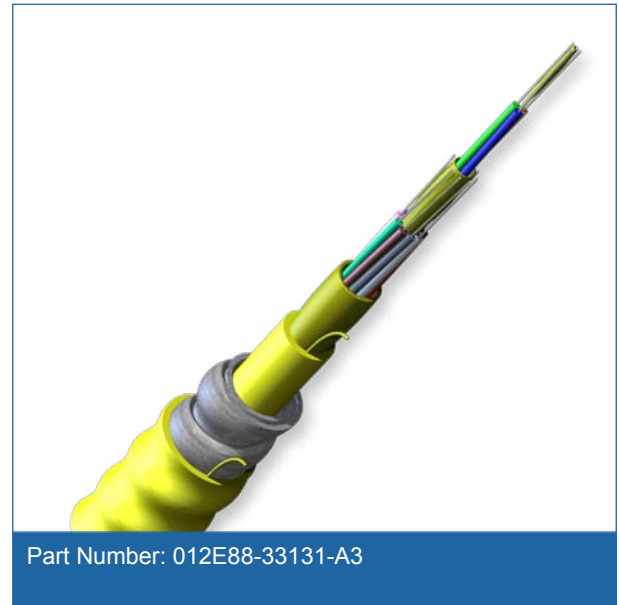
Rugged and durable

## Standards

### Approval and Listings

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

### Flame Resistance



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

12 F, Single-mode (OS2)

CORNING

## Specifications

General Specifications	
Environment	Indoor
Applications	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	Single-mode (OS2)

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 strengths elements / armoring - Layer 1	Dielectric strength members
Tight buffer color, layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile strengths elements / armoring - Layer 2	Dielectric strength members
Number of Ripcords	2
Inner jacket material	Flame-retardant
Tensile strengths elements / armoring - Layer 3	Interlocking armor
Outer jacket material	Flame-retardant
Outer jacket color	Yellow

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

12 F, Single-mode (OS2)



## Mechanical Characteristics Cable

Nominal Inner Cable Diameter	6.1 mm (0.24 in)
Nominal Outer Diameter	12.6 mm (0.5 in)
Weight	151 kg/km (105 lb/1000 ft)
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Min. Bend Radius Installation	187 mm (7.4 in)
Min. Bend Radius Operation	126 mm (5 in)

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	80.2 μm
Fiber Type	Single-mode
Fiber Category	OS2
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.5 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* 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 Cable Systems Customer Service Representative for additional information

## Ordering Information

Order Number	012E88-33131-A3
Product description	MIC <sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum, 12 F, Single-mode (OS2)

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/cablesystems](http://www.corning.com/cablesystems)

A complete listing of the trademarks of Corning Cable Systems is available at [www.corning.com/cablesystems/trademarks](http://www.corning.com/cablesystems/trademarks). Corning Cable Systems is ISO 9001 certified. © 2011 Corning Cable Systems. All rights reserved.