

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

12 F, SMF-28® Ultra fiber, Single-mode (OS2)

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Corning MIC® 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 µm 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 non-armored cables

### TBII buffered fibers

Easy, consistent stripping

### Flame-retardant jacket

Rugged and durable

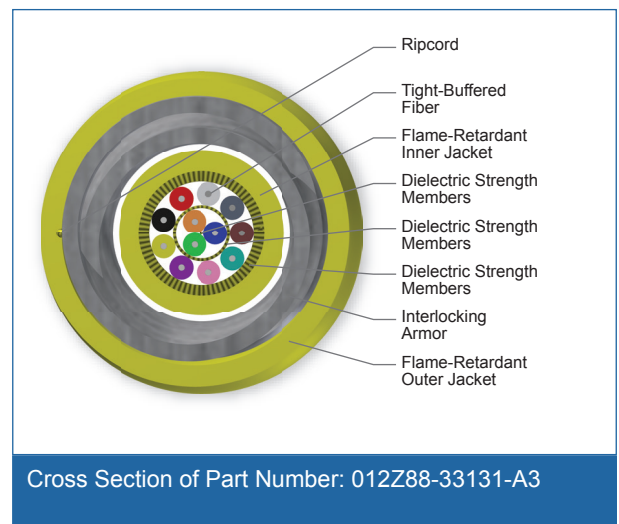
## Standards

### Approvals and Listings

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

### Flame Resistance

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



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## 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 | SMF-28 <sup>®</sup> Ultra fiber                    |

### 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                |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Number of Ripcords                                  | 1                           |
| Inner Jacket Material                               | Flame-retardant             |
| Tensile Strength Elements and/or Armoring - Layer 3 | Interlocking Armor          |
| Outer Jacket Material                               | Flame-retardant             |
| Outer Jacket Color                                  | Yellow                      |

### 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 Inner Cable Diameter            | 6.0 mm (0.24 in)          |
| Nominal Outer Diameter                  | 11.3 mm (0.45 in)         |
| Weight                                  | 113 kg/km (76 lb/1000 ft) |
| Max. Tensile Strength, Short-Term       | 440 N (100 lbf)           |

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## Mechanical Characteristics Cable

|                                  |                 |
|----------------------------------|-----------------|
| Max. Tensile Strength, Long-Term | 132 N (30 lbf)  |
| Min. Bend Radius Installation    | 170 mm (6.7 in) |
| Min. Bend Radius Operation       | 113 mm (4.5 in) |

## Fiber Specifications

### Optical Characteristics (cabled)

|                         |                                    |
|-------------------------|------------------------------------|
| Fiber Name              | SMF-28 <sup>®</sup> Ultra fiber    |
| Fiber Category          | G.652.D/G.657.A1                   |
| Fiber Code              | Z                                  |
| Performance Option Code | 31                                 |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm        |
| Maximum Attenuation     | 0.4 dB/km / 0.65 dB/km / 0.5 dB/km |

## Ordering Information

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Part Number         | 012Z88-33131-A3                                                                                                               |
| Product Description | MIC <sup>®</sup> Tight-Buffered, Interlocking Armored Cable, Plenum, 12 F, SMF-28 <sup>®</sup> Ultra fiber, Single-mode (OS2) |



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