

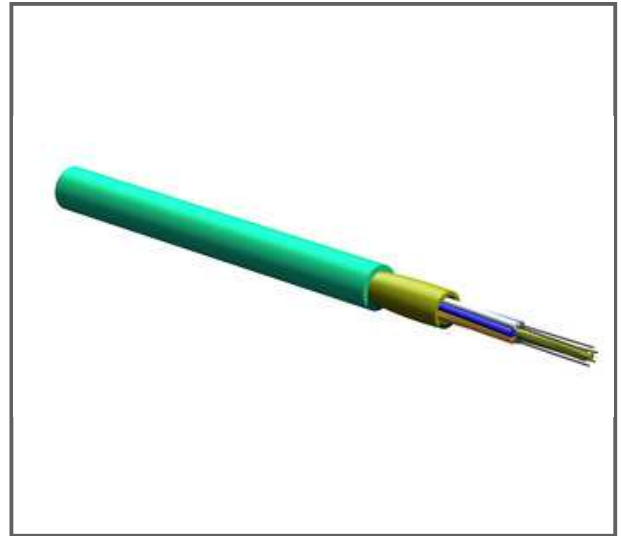
# MIC® Tight-Buffered Cable, Plenum 6 F, 50 $\mu$ m multimode (OM3)

CORNING

**Part Number:**  
**006T88-31180-29**

Corning MIC® plenum cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900  $\mu$ m buffered fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC plenum cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.



## Features and Benefits

**900  $\mu$ m buffered fibers**

Easy, consistent stripping

**All-dielectric construction**

Requires no grounding or bonding

**Flame-retardant jacket**

Rugged and durable

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## Specifications

### Mechanical Specifications

|                                         |                 |
|-----------------------------------------|-----------------|
| Min. Bend Radius Installation           | 78 mm (3.07 in) |
| Min. Bend Radius Operation              | 52 mm (2.05 in) |
| Nominal Outer Diameter                  | 5.2 mm (0.2 in) |
| Max. Tensile Strength, Long-Term, ≤12F  | 132 N           |
| Max. Tensile Strength, Long-Term, >12F  | 200 N           |
| Max. Tensile Strength, Short-Term, ≤12F | 440 N           |
| Max. Tensile Strength, Short-Term, >12F | 660 N           |

### Cable Design

|                                                     |                                          |
|-----------------------------------------------------|------------------------------------------|
| Central Element                                     | Yarn                                     |
| Fiber Count                                         | 6                                        |
| Outer Jacket Color                                  | Aqua                                     |
| Outer Jacket Material                               | Flame-retardant                          |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members              |
| Tight Buffer Color                                  | Blue, Orange, Green, Brown, Slate, White |
| Flame Rating                                        | Plenum (OFNP)                            |

### Environmental Conditions

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

### General Specifications

|             |                |
|-------------|----------------|
| Environment | Indoor         |
| Cable Type  | Tight-Buffered |

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## General Specifications

|                |                                                      |
|----------------|------------------------------------------------------|
| Product Type   | Distribution                                         |
| Fiber Category | 50 µm MM (OM3)                                       |
| Flame Rating   | Plenum (OFNP)                                        |
| Application    | General Purpose Horizontal , Vertical Riser , Plenum |

## Ordering Information

|        |            |
|--------|------------|
| Weight | 24.2 kg/km |
|--------|------------|

## Standards

|                        |                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------|
| Approvals and Listings | National Electrical Code® (NEC®) OFNP, FT-6                                                |
| Flame Test Method      | NFPA 262 and CSA FT-6 (for plenum, riser and general building applications), ICEA S-83-596 |

## Optical Characteristics

|                                         |                          |
|-----------------------------------------|--------------------------|
| Fiber Code                              | T                        |
| Fiber Type                              | Multimode                |
| Performance Option Code                 | 80                       |
| Fiber Core Diameter                     | 50 µm                    |
| Minimum Effective Modal Bandwidth (EMB) | 2000 MHz*km / -          |
| Maximum Attenuation                     | 2.8 dB/km / 1.0 dB/km    |
| Min. Overfilled Launch (OFL) Bandwidth  | 1500 MHz*km / 500 MHz*km |
| Serial 1 Gigabit Ethernet               | 1000 MHz*km / 600 MHz*km |
| Serial 10 Gigabit Ethernet              | 300 MHz*km / -           |
| Wavelengths                             | 850 nm / 1300 nm         |
| Fiber Category                          | OM3                      |

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Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC • 28216 • United States  
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

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