

# Fan-Out Tight-Buffered Cable, Plenum

12 F, 2.0 mm Subunits, 50 µm multimode (OM4)

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Corning fan-out plenum cables are designed for use in building backbone and horizontal cabling. These multifiber cables use individually jacketed 900 µm TBII Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are stranded around a dielectric central member with a flame-retardant outer jacket, making this cable particularly useful for applications requiring direct connection to terminal equipment or 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

### 900 µm Buffered Fibers

Easy, consistent stripping

### Flame-retardant jacket

Rugged and durable

### Temperature- and water-resistant

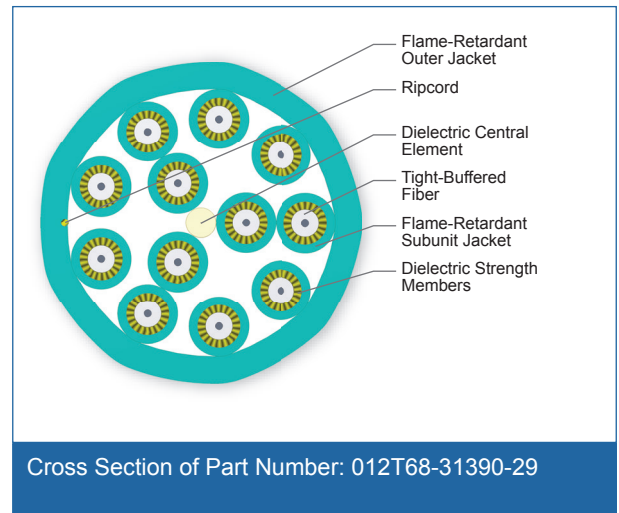
Superior protection

### All-dielectric construction

Requires no grounding or bonding

## Standards

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| <b>Listings</b>         | National Electrical Code® (NEC®) OFNP                 |
| <b>Test Criteria</b>    | ICEA S-83-596                                         |
| <b>Design Criteria</b>  | CSA FT-6                                              |
| <b>Flame Resistance</b> | UL-1666 (for 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           | Distribution                                       |
| Flame Rating           | Plenum (OFNP)                                      |
| 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                                     | GRP                         |
| Fiber Count                                         | 12                          |
| Tight Buffer Color                                  | White                       |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Subunit Jacket Material                             | Flame-retardant             |
| Subunit Color                                       | Aqua                        |
| Number of Subunits Layer 1                          | 3                           |
| Tensile Strength Elements and/or Armoring - Layer 2 | Dielectric strength members |
| Number of Subunits Layer 2                          | 9                           |
| Tensile Strength Elements and/or Armoring - Layer 3 | Dielectric strength members |
| Number of Ripcords                                  | 1                           |
| Outer Jacket Material                               | Flame-retardant             |
| Outer Jacket Color                                  | Aqua                        |

| Mechanical Characteristics Cable  |                          |
|-----------------------------------|--------------------------|
| Weight                            | 99 kg/km (67 lb/1000 ft) |
| Nominal Outer Diameter            | 10.5 mm (0.4 in)         |
| Max. Tensile Strength, Short-Term | 440 N (100 lbf)          |
| Max. Tensile Strength, Long-Term  | 132 N (30 lbf)           |

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## Mechanical Characteristics Cable

|                               |                 |
|-------------------------------|-----------------|
| Min. Bend Radius Installation | 158 mm (6.2 in) |
| Min. Bend Radius Operation    | 105 mm (4.1 in) |

## Chemical Characteristics

|      |                                                           |
|------|-----------------------------------------------------------|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
|------|-----------------------------------------------------------|

## 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         | 012T68-31390-29                                                                    |
| Product Description | Fan-Out Tight-Buffered Cable, Plenum, 12 F, 2.0 mm Subunits, 50 µm multimode (OM4) |
| EAN Code            | 4056418161785                                                                      |



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