

# Reel In A Box, Single-Fiber, Tight-Buffered Cable, Plenum

2.9 mm diameter, 50  $\mu$ m multimode (OM2)

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Reel in a Box is Corning's innovative packaging solution for small reels of fiber optic cable in all inside plant applications, such as collocation data centers and wireless projects. This packaging solution provides features that enable our customers greater efficiencies than before.

Corning single-fiber cables are designed for interconnect applications. A 900  $\mu$ m buffered fiber is surrounded by aramid yarn strength members and a flame-retardant jacket. Dielectric strength members offer mechanical durability and the flame-resistant jacket meet requirements of the National Electrical Code® (NEC®) Article 770.

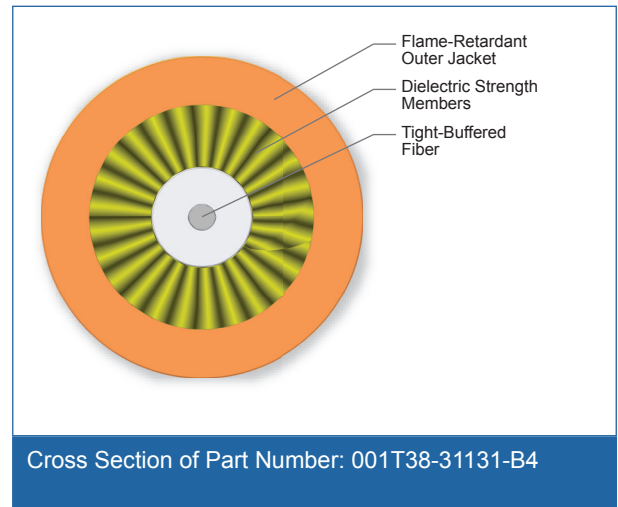
## Features and Benefits

"Countdown" print indicates available cable remaining on the reel providing easier inventory management

Stackable boxes make storage more manageable

Smaller reel offerings mean smaller cable lengths than would normally be available

Cable cutting at Corning lowers operating expenses for our distributors and end users



## Standards

**Waterblocking**

IEC 60794-1-2 F5

## Specifications

| General Specifications |  |
|------------------------|--|
| Environment            | Indoor   |
| Application            | General Purpose Horizontal, Vertical Riser, Plenum |
| Cable Type             | Tight-Buffered                                     |
| Product Type           | Interconnect                                       |
| Fiber Category         | 50 $\mu$ m MM (OM2)                                |
| Fiber Length           | 600 m (2000 ft)                                    |

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## Temperature Range

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

## Cable Design

|   |                             |
|---|-----------------------------|
| Fiber Count   | 1                           |
| Tight Buffer Color                                  | White                       |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Outer Jacket Material                               | Flame-retardant             |
| Outer Jacket Color                                  | Orange                      |

## Mechanical Characteristics Cable

|                                   |                          |
|-----------------------------------|--------------------------|
| Weight                            | 7.4 kg/km (5 lb/1000 ft) |
| Nominal Outer Diameter            | 2.9 mm (0.11 in)         |
| Max. Tensile Strength, Short-Term | 220 N (50 lbf)           |
| Max. Tensile Strength, Long-Term  | 66 N (15 lbf)            |
| Min. Bend Radius Installation     | 43.5 mm (1.7 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             | OM2                   |
| Fiber Code                 | T                     |
| Performance Option Code    | 31                    |
| Wavelengths                | 850 nm / 1300 nm      |
| Maximum Attenuation        | 2.8 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet  | 750 m / 600 m         |
| Serial 10 Gigabit Ethernet | 150 m / -             |

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## Fiber Specifications

| Optical Characteristics (cabled)        |                         |
|---|-------------------------|
| Min. Overfilled Launch (OFL) Bandwidth  | 700 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 950 MHz*km / -          |

## Ordering Information

|                     |  |
|---------------------|--|
| Part Number         | 001T38-31131-B4  |
| Product Description | Reel in a Box, Single-Fiber Tight-Buffered Cable, Plenum, 2.9 mm diameter, 50 µm multimode (OM2) |
| EAN Code            | 4056418154954  |

## Shipping Information

|                    |   |
|--------------------|---|
| Packaging Method   | Reel In A Box   |
| Dimensions (HxWxD) | 39.37 cm x 39.37 cm x 38.73 cm (15.5 in x 15.5 in x 15.25 in) |



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)

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