

# Single-Fiber Tight-Buffered Cable, Plenum

2.0 mm diameter, Single-mode (OS2)

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Corning Cable Systems Single-Fiber Cables are designed for interconnect applications. A 900 µm TBII® 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.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, 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

### Meets NEC requirements

Meets burn test criteria

### All-dielectric strength member

Mechanical durability

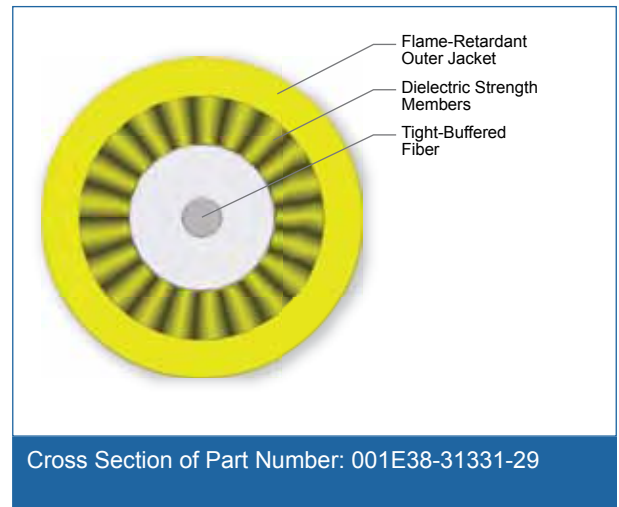
## Standards

### Approval and Listings

National Electrical Code®  
(NEC®) OFNP, 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   | Interconnect                                       |
| Flame Rating   | Plenum (OFNP)                                      |
| Fiber Category | Single-mode (OS2)                                  |

### Temperature Range

|           |                                    |
|-----------|------------------------------------|
| Storage   | -40 °C to 70 °C (-40 °F to 158 °F) |
| Operation | 0 °C to 70 °C (32 °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                                  | Yellow                      |

### Mechanical Characteristics Cable

|                                    |                            |
|------------------------------------|----------------------------|
| Weight                             | 4.3 kg/km (2.9 lb/1000 ft) |
| Nominal Outer Diameter             | 2 mm (0.08 in)             |
| Max. Tensile Strengths, Short-Term | 220 N (50 lbf)             |
| Max. Tensile Strengths, Long-Term  | 66 N (15 lbf)              |
| Min. Bend Radius Installation      | 50 mm (2 in)               |
| Min. Bend Radius Operation         | 25 mm (1 in)               |

### Chemical Characteristics

|      |                                                           |
|------|-----------------------------------------------------------|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|-----------------------------------------------------------|

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## Fiber Specifications

| Optical Characteristics (cabled) |                                     |
|----------------------------------|-------------------------------------|
| Fiber Type                       | Single-mode                         |
| Fiber Core Diameter              | 8.2 $\mu$ m                         |
| 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 Care Representative for additional information.

## Ordering Information

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Part Number         | 001E38-31331-29                                                               |
| Product Description | Single-Fiber Tight-Buffered Cable, Plenum, 2.0 mm diameter, Single-mode (OS2) |



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