

# Ribbon Cable, Plenum

72 F, Single-mode (OS2)

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Corning Cable Systems Ribbon Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations and for high-fiber-count data centers. These cables consist of 12 to 216 fibers organized into 12-fiber ribbons inside a central tube. Dielectric strength members provide tensile strength while a specially formulated flame-retardant outer jacket allows the design to meet the requirements of the NFPA 262 flame test. The 12-fiber ribbons have readily identifiable ribbon ID numbers and fiber colors with easy access to individual fibers. The precise fiber and ribbon geometries result in excellent mass splicing yields. The ribbon plenum cables are available preconnectorized for easy field installation and reduced labor costs and compatible with standard ribbon cable procedures and hardware. These cables are also OFNP and FT-6 listed and RoHS compliant.

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

### Precise fiber and ribbon geometries

Excellent mass splicing yields

### Gel-free waterblocking technology

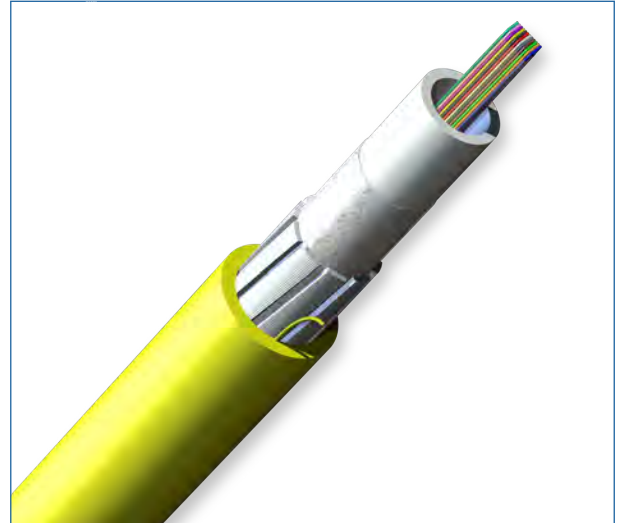
Craft-friendly cable preparation

### Innovative waterblocking technology

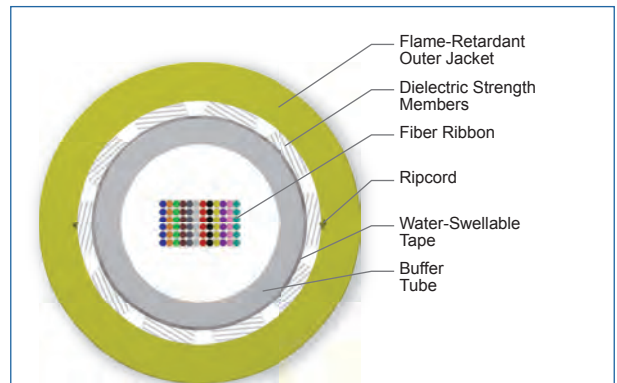
Prevents water penetration

### Flame-retardant jacket

Rugged and durable



Part Number: 072EC8-14101-20



Cross Section of Part Number: 072EC8-14101-20

## Standards

### Approval and Listings

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

### Common Installations

Indoor plenum, riser and  
general building applica-  
tions

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## Standards

### Flame Resistance

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

## Specifications

### General Specifications

|                |  |
|----------------|--|
| Environment    | Indoor   |
| Application    | General Purpose Horizontal, Vertical Riser, Plenum |
| Cable Type     | Ribbon   |
| Product Type   | Distribution                                       |
| Flame Rating   | Plenum (OFNP)                                      |
| Fiber Category | Single-mode (OS2)                                  |

### 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

|   |  |
|---|--|
| Fiber Count   | 72   |
| Ribbons per Tube                                    | 6  |
| Fibers per Ribbon                                   | 12   |
| Fiber Coloring                                      | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Buffer Tube Color                                   | Natural  |
| Buffer Tube Diameter                                | 8.1 mm (0.32 in)   |
| Tape  | Water-swellable  |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members  |
| Number of Ripcords                                  | 2  |
| Outer Jacket Material                               | Flame-retardant  |
| Outer Jacket Color                                  | Yellow   |

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## Mechanical Characteristics Cable

|                                    |                            |
|------------------------------------|----------------------------|
| Max. Tensile Strengths, Short-Term | 1320 N (300 lbf)           |
| Max. Tensile Strengths, Long-Term  | 400 N (90 lbf)             |
| Weight                             | 153 kg/km (103 lb/1000 ft) |
| Nominal Outer Diameter             | 12.4 mm (0.49 in)          |
| Min. Bend Radius Installation      | 186 mm (7.3 in)            |
| Min. Bend Radius Operation         | 124 mm (4.9 in)            |

## Chemical Characteristics

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

## Fiber Specifications

### Optical Characteristics (cabled)

|                            |                                   |
|----------------------------|-----------------------------------|
| Fiber Type                 | Single-mode                       |
| Fiber Core Diameter        | 8.2 µm                            |
| Fiber Category             | OS2                               |
| Fiber Code                 | E                                 |
| Performance Option Code    | 01                                |
| Wavelengths                | 1310 nm / 1383 nm / 1550 nm       |
| Maximum Attenuation        | 0.4 dB/km / 0.4 dB/km / 0.3 dB/km |
| Serial 1 Gigabit Ethernet  | 5000 m / - / -                    |
| Serial 10 Gigabit Ethernet | 10000 m / - / 40000 m             |

\* ITU-T G.652 D compliant.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

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.

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## Ordering Information

|                     |   |
|---------------------|---|
| Part Number         | 072EC8-14101-20                               |
| Product Description | Ribbon Cable, Plenum, 72 F, Single-mode (OS2) |
|                     |   |



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