

Ribbon Interconnect Cable, Plenum

2 F, 50 μm multimode (OM4)



Corning ribbon plenum interconnect cables are designed for multifiber connector interconnect applications from equipment to patch panel or as a patch cord. Available with two, four, eight or 12 fibers, these cables make compact, rugged patch cables and offer a perfect complement to multifiber connector strategies. Dielectric strength members offer mechanical durability within a flexible, flame-listed, retardant jacket. The cables meet application requirements of the National Electrical Code (NEC) Article 770 and are also OFNP and FT-6.

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

Meets NEC requirements

Meets burn test criteria

All-dielectric strength member

Mechanical durability

TEMPEST applications

Interference prevention

Standards

Approvals and Listings

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

Flame Resistance

NFPA 262 (for plenum, riser
and general building appli-
cations)

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Specifications

| General Specifications | |
|------------------------|--|
| Environment | Indoor |
| Application | General Purpose Horizontal, Vertical Riser, Plenum |
| Cable Type | Ribbon |
| Product Type | Interconnect |
| Flame Rating | Plenum (OFNP) |
| Fiber Category | 50 μ m MM (OM4) |

| 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 | 2 |
| Number of Ribbons | 1 |
| Fibers per Ribbon | 2 |
| Fiber Coloring | Blue, White, White, Orange |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Outer Jacket Material | Flame-retardant |
| Outer Jacket Color | Aqua |

| Mechanical Characteristics Cable | |
|-----------------------------------|----------------------------|
| Max. Tensile Strength, Short-Term | 220 N (50 lbf) |
| Max. Tensile Strength, Long-Term | 66 N (15 lbf) |
| Weight | 7.9 kg/km (5.3 lb/1000 ft) |
| Nominal Outer Diameter | 2.9 mm (0.11 in) |
| Min. Bend Radius Installation | 43.5 mm (1.7 in) |
| Min. Bend Radius Operation | 29 mm (1.1 in) |

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

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Fiber Specifications

| Optical Characteristics (cabled) | |
|---|--------------------------|
| Fiber Core Diameter | 50 μ m |
| Fiber Category | OM4 |
| Fiber Code | T |
| Performance Option Code | 90 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 3.0 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet | 1100 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 / - |

* Assumes 1.0 dB maximum total connector/splice loss.

* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50 μ m multimode fiber macrobend loss \leq 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

2) Improved attenuation and bandwidth options available.

3) Bend-insensitive single-mode fibers available on request.

4) Contact a Corning Customer Care Representative for additional information.

Ordering Information

| | |
|---------------------|--|
| Part Number | 002TJ8-41190-0F |
| Product Description | Ribbon Interconnect Cable, Plenum, 2 F, 50 μ m multimode (OM4) |



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