

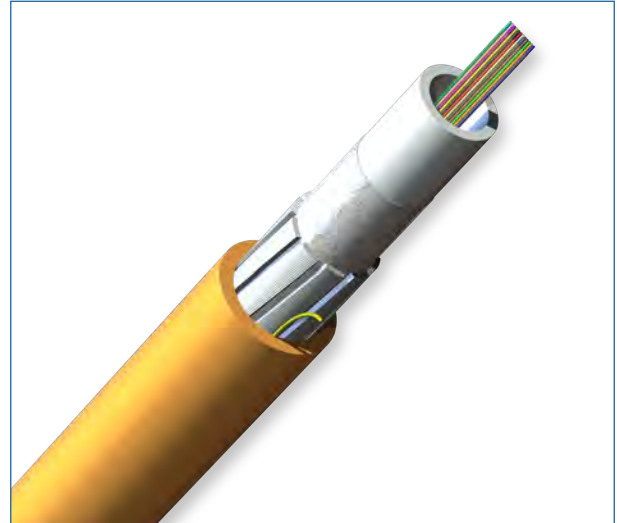
Ribbon Cable, Riser

12 F, 62.5 µm multimode (OM1)

CORNING

Corning ribbon riser cables are all-dielectric and designed for indoor use. The optical fibers are organized into easily identifiable 12-fiber ribbons inside a central tube. The required tensile strength is provided by dielectric strength elements that are helically stranded around the central tube. The specially formulated, flame-retardant outer jacket and rugged construction of these cables facilitates routing through riser shafts and long horizontal runs inside buildings. These cables are tested using the UL 1666 flame test, meet the application requirements of the National Electrical Code (NEC) and are OFNR and FT-4 listed.

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.



Part Number: 012KC7-14130-20

Features and Benefits

Precise fiber and ribbon geometries

Excellent mass splicing yields

Gel-free waterblocking technology

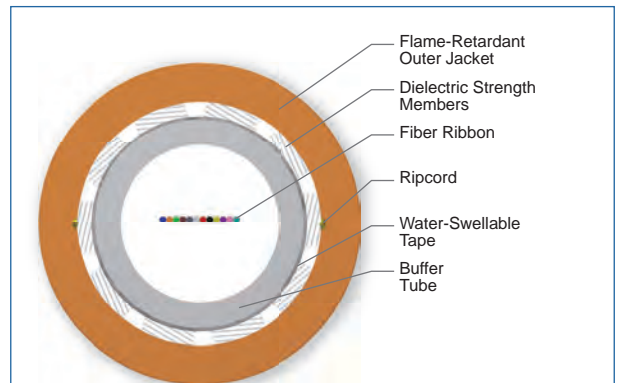
Craft-friendly cable preparation

Innovative waterblocking technology

Prevents water penetration

Flame-retardant jacket

Rugged and durable



Cross Section of Part Number: 012KC7-14130-20

Standards

Approval and Listings

National Electrical Code®
(NEC®) OFNR, CSA OFN
FT-4

Common Installations

Indoor vertical riser and
general purpose horizontal
according to NEC Article
770

Design and Test Criteria

ANSI/ICEA S-83-596

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Specifications

General Specifications

| | |
|----------------|--|
| Environment | Indoor |
| Application | General Purpose Horizontal, Vertical Riser |
| Cable Type | Ribbon |
| Product Type | Distribution |
| Flame Rating | Riser (OFNR) |
| Fiber Category | 62.5 μ m MM (OM1) |

Temperature Range

| | |
|--------------|------------------------------------|
| Storage | -40 °C to 70 °C (-40 °F to 158 °F) |
| Installation | -10 °C to 60 °C (14 °F to 140 °F) |
| Operation | -20 °C to 70 °C (-4 °F to 158 °F) |

Cable Design

| | |
|---|--|
| Fiber Count | 12 |
| Ribbons per Tube | 1 |
| 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-swellaable |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members |
| Number of Ripcords | 2 |
| Outer Jacket Material | Flame-retardant |
| Outer Jacket Color | Orange |

Mechanical Characteristics Cable

| | |
|-----------------------------------|--------------------------|
| Max. Tensile Strength, Short-Term | 1320 N (300 lbf) |
| Max. Tensile Strength, Long-Term | 400 N (90 lbf) |
| Nominal Outer Diameter | 9.7 mm (0.38 in) |
| Weight | 88 kg/km (59 lb/1000 ft) |
| Min. Bend Radius Installation | 146 mm (5.7 in) |
| Min. Bend Radius Operation | 97 mm (3.8 in) |

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Chemical Characteristics

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

Fiber Specifications

Optical Characteristics (cabled)

| | |
|---|-------------------------|
| Fiber Core Diameter | 62.5 µm |
| Fiber Category | OM1 |
| Fiber Code | K |
| Performance Option Code | 30 |
| Wavelengths | 850 nm / 1300 nm |
| Maximum Attenuation | 3.4 dB/km / 1.0 dB/km |
| Serial 1 Gigabit Ethernet | 300 m / 550 m |
| Serial 10 Gigabit Ethernet | 33 m / - |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz*km / 500 MHz*km |
| Minimum Effective Modal Bandwidth (EMB) | 220 MHz*km / - |

Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact a Corning Customer Care Representative for additional information.

Ordering Information

| | |
|---------------------|--|
| Part Number | 012KC7-14130-20 |
| Product Description | Ribbon Cable, Riser, 12 F, 62.5 µm multimode (OM1) |



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