

Single-Fiber Tight-Buffered Cable, Riser

2.9 mm diameter, 62.5 μ m multimode (OM1)

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Corning Cable Systems Single-Fiber Cables are designed for interconnect applications. A 900 μ m 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

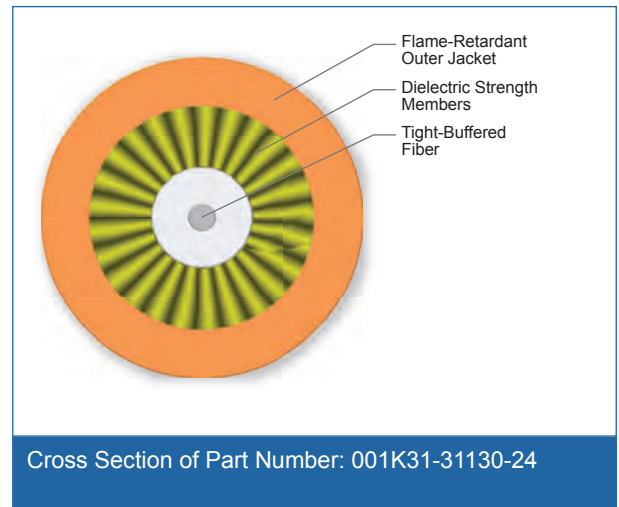
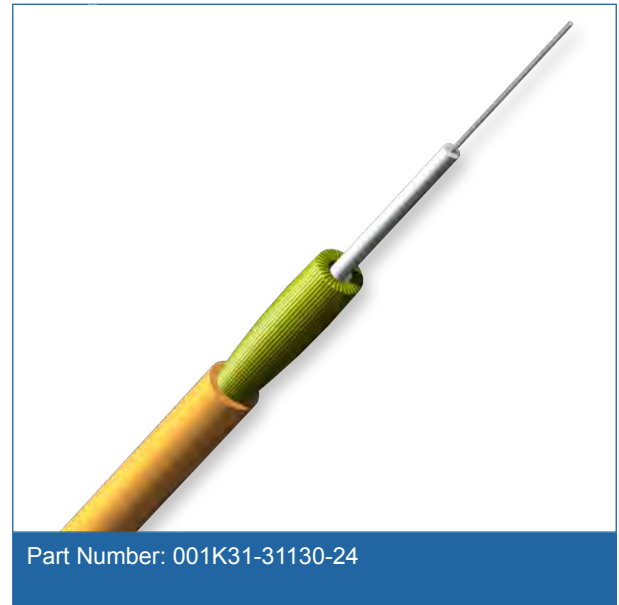
Standards

Approval and Listings

National Electrical Code® (NEC®) OFNR, CSA FT-4, ICEA S-83-596

Flame Resistance

UL-1666 (for riser and general building applications)



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Specifications

General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Interconnect
Flame Rating	Riser (OFNR)
Fiber Category	62.5 µm MM (OM1)

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Operation	-20 °C to 70 °C (-4 °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	6.4 kg/km (4.3 lb/1000 ft)
Nominal Outer Diameter	2.9 mm (0.11 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	15 mm (0.55 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	62.5 µm
Fiber Type	Multimode
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
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -

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	001K31-31130-24
Product Description	Single-Fiber Tight-Buffered Cable, Riser, 2.9 mm diameter, 62.5 µm multimode (OM1)



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