

Single-Fiber Tight-Buffered Cable, Plenum

2.9 mm diameter, 50 µm multimode, extended 10G distance (OM4)

CORNING

Corning single-fiber cables are designed for interconnect applications. A 900 µm 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, 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

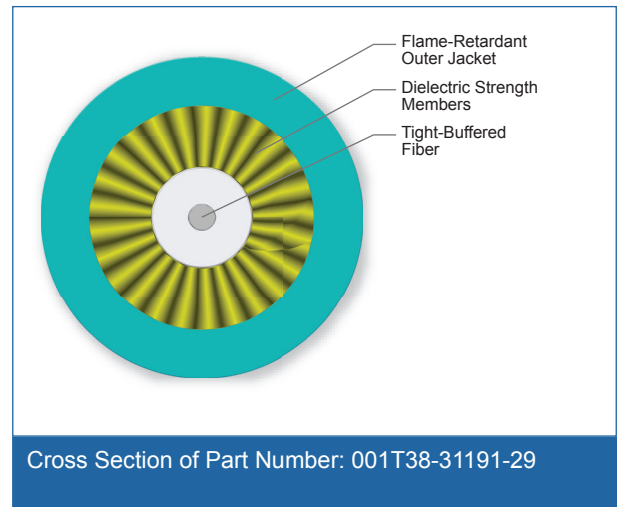
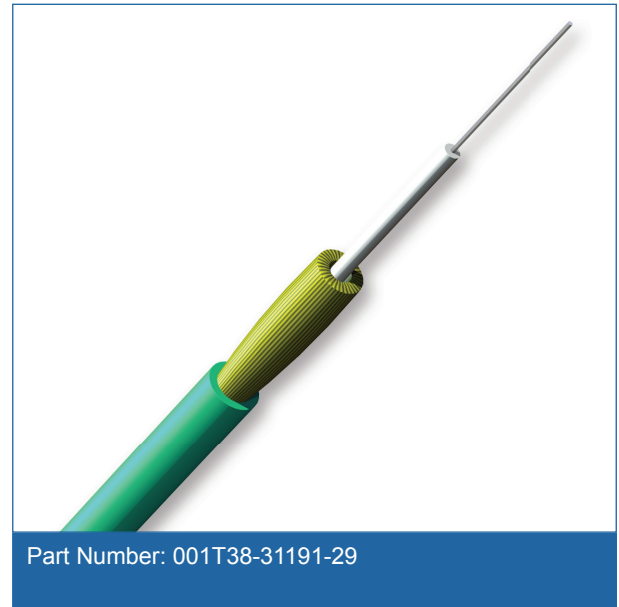
Standards

Listings

National Electrical Code® (NEC®) OFNP, FT-6

Design and Test Criteria

NFPA 262 and CSA FT-6 (for plenum, riser and general building applications); ICEA S-83-596



Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interconnect

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General Specifications

Flame Rating	Plenum (OFNP)
Fiber Category	50 µm 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	1
Tight Buffer Color	White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable

Nominal Outer Diameter	2.9 mm (0.11 in)
Weight	7.4 kg/km (5.0 lb/1000 ft)
Max. Tensile Strength, Short-Term	220 N (50 lbf)
Max. Tensile Strength, Long-Term	66 N (15 lbf)
Min. Bend Radius Installation	43.5 mm (1.7 in)
Min. Bend Radius Operation	7.5 mm (0.30 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 µm
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91

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Fiber Specifications

Optical Characteristics (cabled)	
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	600 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	5350 MHz*km / -

Ordering Information

Part Number	001T38-31191-29
Product Description	Single-Fiber Tight-Buffered Cable, Plenum, 2.9 mm diameter, 50 µm multimode, extended 10G distance (OM4)



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