

Fan-Out Tight-Buffered Cable, Plenum

12 F, 2.0 mm Subunits, 50 μ m multimode, extended 10G distance (OM4)

CORNING

Corning fan-out plenum cables are designed for use in building backbone and horizontal cabling. These multifiber cables use individually jacketed 900 μ m TBII Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are stranded around a dielectric central member with a flame-retardant outer jacket, making this cable particularly useful for applications requiring direct connection to terminal equipment or requiring extra rugged cables.

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

900 μ m Buffered Fibers

Easy, consistent stripping

Flame-retardant jacket

Rugged and durable

Temperature- and water-resistant

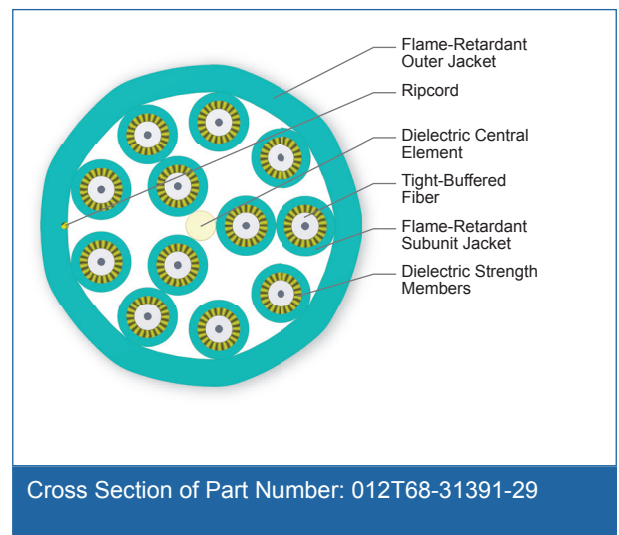
Superior protection

All-dielectric construction

Requires no grounding or bonding

Standards

Listings	National Electrical Code® (NEC®) OFNP
Test Criteria	ICEA S-83-596
Design Criteria	CSA FT-6
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, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 μ m MM (OM4+)

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	
Central Element	GRP
Fiber Count	12
Tight Buffer Color	White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Subunit Jacket Material	Flame-retardant
Subunit Color	Aqua
Number of Subunits Layer 1	3
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Number of Subunits Layer 2	9
Tensile Strength Elements and/or Armoring - Layer 3	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Weight	99 kg/km (67 lb/1000 ft)
Nominal Outer Diameter	10.5 mm (0.4 in)
Max. Tensile Strength, Short-Term	440 N (100 lbf)
Max. Tensile Strength, Long-Term	132 N (30 lbf)

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Mechanical Characteristics Cable

Min. Bend Radius Installation	158 mm (6.2 in)
Min. Bend Radius Operation	105 mm (4.1 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 µm
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91
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	012T68-31391-29
Product Description	Fan-Out Tight-Buffered Cable, Plenum, 12 F, 2.0 mm Subunits, 50 µm multimode, extended 10G distance (OM4)



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