

Fan-Out Tight-Buffered Cable, Plenum

12 F, 1.65 mm Subunits, 50 μm multimode (OM4)

CORNING

Corning fan-out plenum cables are designed for use in building backbone and horizontal cabling. These multifiber cables use individually jacketed 900 μm 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 μm 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

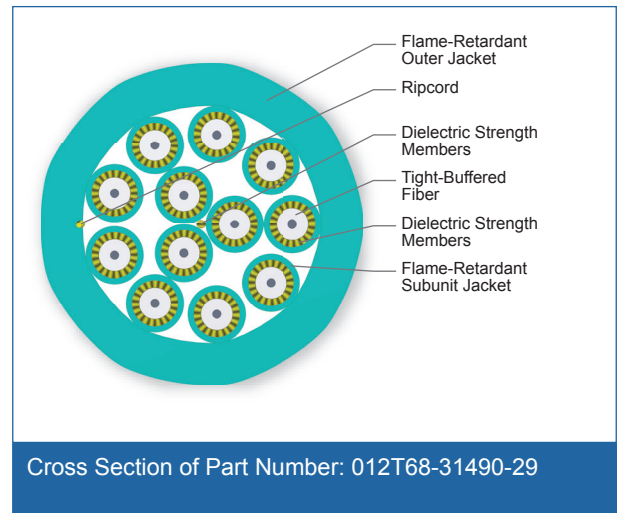
ICEA S-83-596

Design Criteria

CSA FT-6

Flame Resistance

UL-1666 (for riser and general building applications)



Fan-Out Tight-Buffered Cable, Plenum

12 F, 1.65 mm Subunits, 50 µm multimode (OM4)

CORNING

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 µm 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	Yarn
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	82 kg/km (55 lb/1000 ft)
Nominal Outer Diameter	8.9 mm (0.4 in)
Max. Tensile Strength, Short-Term	440 N (100 lbf)
Max. Tensile Strength, Long-Term	132 N (30 lbf)

Fan-Out Tight-Buffered Cable, Plenum

12 F, 1.65 mm Subunits, 50 µm multimode (OM4)

CORNING

Mechanical Characteristics Cable

Min. Bend Radius Installation	134 mm (5.3 in)
Min. Bend Radius Operation	89 mm (3.5 in)

Chemical Characteristics

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

Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 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 / -

Ordering Information

Part Number	012T68-31490-29
Product Description	Fan-Out Tight-Buffered Cable, Plenum, 12 F, 1.65 mm Subunits, 50 µm multimode (OM4)



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.

CORNING