

FREEDM[®] Fan-Out Tight-Buffered Cable, Riser

2 F, 50 μm multimode (OM3)

CORNING

Corning Cable Systems FREEDM[®] Fan-Out Cables are designed for routing inside and outside buildings into riser spaces, to security, surveillance or monitoring cameras, and within telecommunications rooms and workstations. With no need for transition splices when entering a building, this cable solution provides low-fiber-count connections within building backbone riser and horizontal spaces. The indoor/outdoor temperature and water-resistant performance provides superior protection for applications like traffic control, with optical feeds in rugged environments. Ideal for providing direct optical connections from indoor and outdoor surveillance cameras to security control locations, these cables can also provide a secure link for surveillance or data.

Features and Benefits

900 μm TBII[®] Buffered Fibers

Easy, consistent stripping

2.9 mm subunits

Easy field terminations

Flame-retardant jacket

Rugged and durable

Temperature- and water-resistant

Superior protection

All-dielectric construction

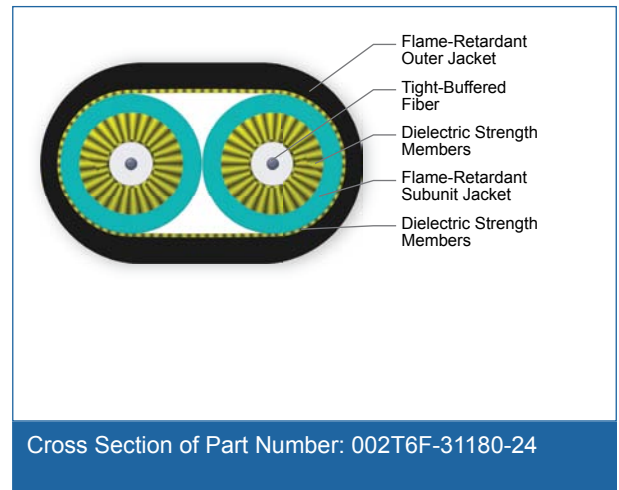
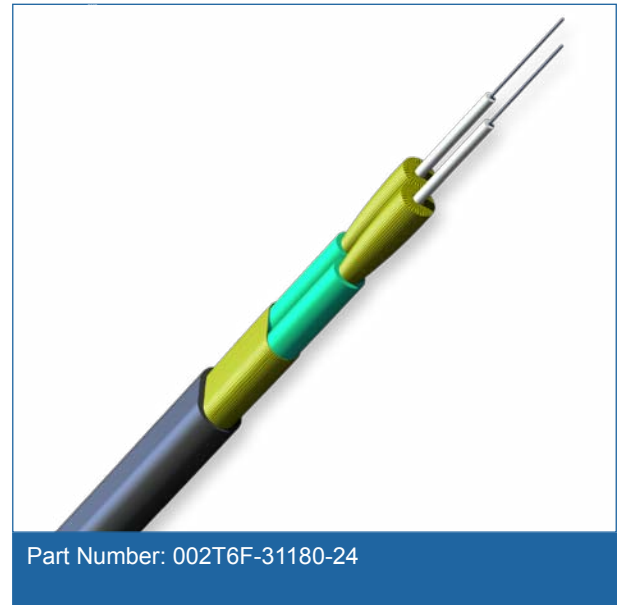
Requires no grounding or bonding

Standards

Approval and Listings	National Electrical Code [®] (NEC) OFNR, CSA OFN FT-4
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Design and Test Criteria	ICEA S-104-696
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Flame Resistance	UL-1666 (for riser and general building applications)
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Specifications

General Specifications	
Environment	Indoor/Outdoor Cables
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser)
Cable Type	Tight-Buffered
Product Type	Dielectric
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 70 °C (14 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Fiber Count	2
Tight Buffer Color	White
Subunit Diameter	2.9 mm
Subunit Color	Aqua
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Black

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	330 N (75 lbf)
Weight	26 kg/km (18 lb/1000 ft)
Nominal Outer Diameter	4.2 mm x 6.5 mm (0.25 in x 0.3 in)
Min. Bend Radius Installation	114 mm (4.5 in)
Min. Bend Radius Operation	76 mm (3 in)

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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	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

- Notes:
- 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
 - 2) Improved attenuation and bandwidth options available
 - 3) Bend-insensitive single-mode fibers available on request
 - 4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	002T6F-31180-24
Product Description	FREEDM® Fan-Out Tight-Buffered Cable, Riser, 2 F, 50 µm multimode (OM3)



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