

# FREEDM® Fan-Out Tight-Buffered Cable, Riser

2 F, 62.5 µm multimode (OM1)

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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

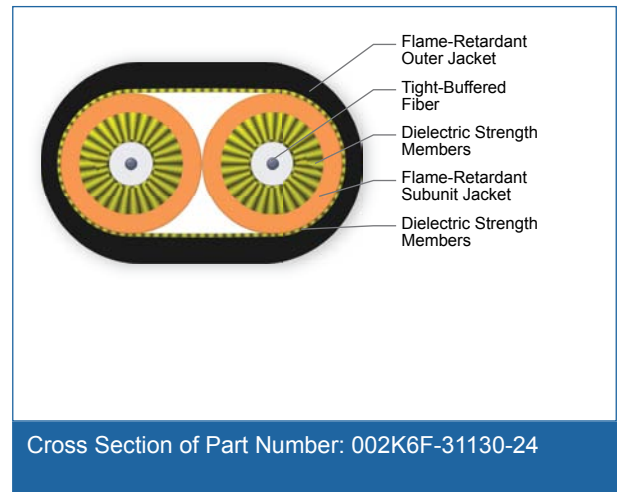
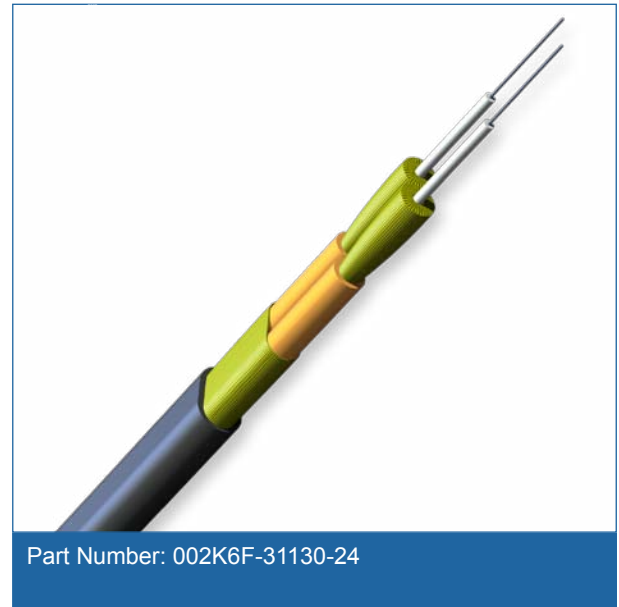
Requires no grounding or bonding

## Standards

<b>Approval and Listings</b>	National Electrical Code® (NEC) OFNR, CSA OFN FT-4
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<b>Design and Test Criteria</b>	ICEA S-104-696
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<b>Flame Resistance</b>	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	62.5 μm MM (OM1)

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	Orange
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	62.5 $\mu$ m
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 Service Representative for additional information

## Ordering Information

Part Number	002K6F-31130-24
Product Description	FREEDM <sup>®</sup> Fan-Out Tight-Buffered Cable, Riser, 2 F, 62.5 $\mu$ m multimode (OM1)



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