FREEDM® One Tight-Buffered Cable, Riser

24 F, 62.5 μm multimode (OM1)



Corning Cable Systems FREEDM® One Cables are flame -retardant, UV-resistant, indoor/outdoor cables designed for aerial, duct and direct-buried applications with no need for a transition splice when entering the building. The tight-buffered construction facilitates easier termination for low-fiber-count applications in the local area network (LAN) and eliminates need for fan-out kits. The design features TIA-598 color-coded 900 µm TBII® Buffered Fibers for easy identification, consistent stripping and direct termination. The small diameter and bend radius of the cable allow for easy installation in space-constrained areas while the innovative waterblocking technology is ideal for OSP applications. The all-dielectric cable construction requires no grounding or bonding and the UVresistant, flame-retardant jacket is rugged, durable and easy to strip.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Features and Benefits

Waterblocking technology

OSP (outdoor) applications

Small diameter and bend-radius

Easy installation in space-constrained areas

Color-coded fibers

Quick and easy identification

All-dielectric construction

Requires no grounding or bonding

UV-resistant, flame-retardant jacket

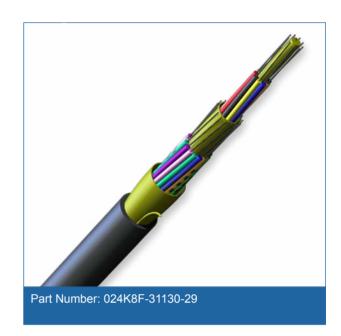
Rugged, durable and easy to strip

Standards

Approval and Listings National Electrical Code®

(NEC®) OFNR, FT-4

Design and Test Criteria ICEA S-104-696







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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 60 °C (14 °F to 140 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Central Element	Dielectric
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements and/or Armoring - Layer 1	Water-swellable strength members
Number of Ripcords	1
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Black

Mechanical Characteristics Cable		
Weight	60 kg/km (40 lb/1000 ft)	
Nominal Outer Diameter	8 mm (.31 in)	
Min. Bend Radius Installation	120 mm (4.7 in)	
Min. Bend Radius Operation	40 mm (1.6 in)	
Max. Tensile Strengths, Short-Term	1350 N (300 lbf)	
Max. Tensile Strengths, Long-Term	400 N (90 lbf)	

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Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/ EG

Fiber Specifications

Optical Characteristics (cabled)		
Fiber Core Diameter	62.5 µm	
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 Care Representative for additional information

Ordering Information

Part Number	024K8F-31130-29
Product Description	FREEDM® One Tight-Buffered Cable, Riser, 24 F, 62.5 μm multimode (OM1)



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