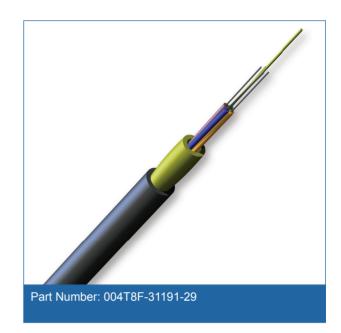
# FREEDM® One Tight-Buffered Cable, Riser

4 F, 50 µm multimode, extended 10G distance (OM4)



Corning FREEDM® One riser cables are flame-retardant, UV-resistant, indoor/outdoor cables designed for aerial and duct 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 the need for fan-out kits. The design features TIA-598 color-coded 900 µm 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 outside plant (OSP) applications. The all-dielectric cable construction requires no grounding or bonding, and the UV-resistant, flame-retardant jacket is rugged, durable and easy to strip.

Note: 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 while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the 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

# FR / UV-Resistant Outer Jacket Dielectric Strength Yarns Dielectric Strength Yarns Tight-Buffered Fiber Cross Section of Part Number: 004T8F-31191-29

### **Standards**

Approvals and Listings National Electrical Code®

(NEC®) OFNR, FT-4

Design and Test Criteria ICEA S-104-696

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## **Specifications**

General Specifications	
Environment	Indoor/Outdoor Cables
Application	Aerial, Duct, General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Dielectric
Flame Rating	Riser (OFNR)
Fiber Category	50 μm MM (OM4+)

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	4
Tight Buffer Color	Blue, Orange, Green, Brown
Tensile Strength Elements and/or Armoring - Layer 1	Water-Swellable Strength Yarns
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Black

Mechanical Characteristics Cable		
Weight	23.7 kg/km (15.9 lb/1000 ft)	
Nominal Outer Diameter	5.5 mm (0.22 in)	
Min. Bend Radius Installation	83 mm (3.2 in)	
Min. Bend Radius Operation	55 mm (2.2 in)	
Max. Tensile Strength, Short-Term	675 N (150 lbf)	
Max. Tensile Strength, Long-Term	200 N (45 lbf)	

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	Т	
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	004T8F-31191-29
Product Description	FREEDM® One Tight-Buffered Cable, Riser, 4 F, 50 $\mu m$ multimode, extended 10G distance (OM4)
EAN Code	4056418138886



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