144 F, Single-mode (OS2)



Corning Cable Systems FREEDM® Loose Tube Gel-Free Riser Cables are flame-retardant, indoor/outdoor, riserrated cables designed for interbuilding and intrabuilding backbones in aerial, duct and riser applications. These cables are protected against water penetration by innovative waterblocking tapes and yarns that swell to absorb water. Waterblocking without the use of messy gels provides more efficient and craft-friendly cable preparation. It also makes cable access easier and simplifies the use of buffer tube fan-out kits. The buffer tubes and fibers in each tube are color-coded for guick, easy identification. The SZ-stranded, loose tube design isolates fibers from installation and environmental rigors and allows for easy midspan access. The cable design is also National Electrical Code® (NEC®) listed (OFNR and FT-4). The all-dielectric cable construction requires no grounding or bonding and the UV-resistant, 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**

#### Riser rating

No transition splices when entering buildings

#### Gel-free waterblocking technology

Craft-friendly cable preparation

#### Color-coded tubes and fibers

Quick and easy identification

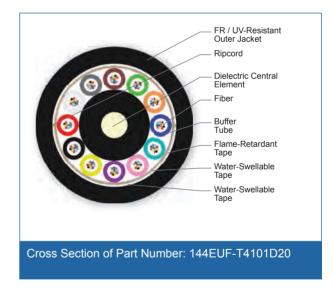
#### All-dielectric construction

Requires no grounding or bonding

#### UV-resistant, flame-retardant jacket

Rugged, durable and easy to strip

# Part Number: 144EUF-T4101D20



#### **Standards**

**Approval and Listings** 

National Electrical Code® (NEC®) OFNR, CSA OFN FT-4



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### Standards

Common Installations Outdoor lashed aerial and

duct; indoor when installed according to National Electrical Code® (NEC®)

Article 770

Design and Test Criteria ANSI/ICEA S-104-696

## **Specifications**

General Specifications	
Environment	Indoor/Outdoor Cables
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser)
Cable Type	Loose Tube
Product Type	Dielectric
Flame Rating	Riser (OFNR)
Fiber Category	Single-mode (OS2)

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	144
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	12
Number of Active Tubes	12
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Diameter	2.5 mm (0.1 in)
Tape	Water-swellable
Number of Ripcords	2



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Cable Design	
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Black

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	810 N (180 lbf)
Weight	251 kg/km (168 lb/1000 ft)
Nominal Outer Diameter	17.7 mm (0.7 in)
Min. Bend Radius Installation	266 mm (10.5 in)
Min. Bend Radius Operation	177 mm (7 in)

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

# Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

<sup>\*</sup> ITU-T G.652 D compliant.



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

Notes: 1) Improved attenuation and bandwidth options available.

 <sup>2)</sup> Bend-insensitive single-mode fibers available on request.
 3) Contact a Corning Cable Systems Customer Care Representative for additional information.

144 F, Single-mode (OS2)



## **Ordering Information**

Part Number	144EUF-T4101D20
Product Description	FREEDM® Loose Tube, Gel-Free Cable, Riser, 144 F, Singlemode (OS2)



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