12 F, Single-mode (OS2)

## CORNING

Corning FREEDM<sup>®</sup> loose tube gel-free interlocking armored cables are flame-retardant, indoor/outdoor, riserrated cables for interbuilding and intrabuilding backbones in aerial, duct and riser applications. Encased in a spirally wrapped, aluminum interlocking armor for ruggedness and superior crush resistance, these cables are ideal for industrial and heavy traffic areas and installations requiring extra protection for optical cables and for high-fibercount trunking applications in areas with limited conduit or vault space. The riser rating precludes the need for a transition splice when entering the building.

These cables are protected against water penetration by innovative waterblocking tapes and yarns that swell to absorb water without the use of messy gels to provide more efficient and craft-friendly cable preparation. This waterblocking technology 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 quick, easy identification. The SZ-stranded, loose tube design isolates fibers from installation, environmental rigors and allows for easy mid-span access. The cable design is also National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) listed (OFCR and FT-4).

The flexible, interlocking armored design offers over seven times the crush protection compared to unarmored cables (as characterized to ICEA-696) and allows easy one-step installation which reduces the overall installation costs. The UV-resistant, flame-retardant jacket is rugged 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

#### Gel-free waterblocking technology Craft-friendly cable preparation

Loose tube design

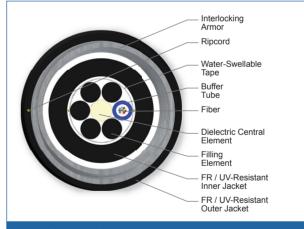
Mechanical ruggedness and environmental durability

Color-coded tubes and fibers Quick and easy identification

#### Flexible interlocking armor

Up to seven times the crush protection compared to non-armored cables





Cross Section of Part Number: 012EUF-T4101DA1

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### Features and Benefits

#### **Common installations**

Outdoor aerial and duct; indoor vertical riser and general purpose horizontal according to NEC Article 770

### Standards

Listings	National Electrical Code® (NEC®) OFCR, CSA FT-4
Design and Test Criteria	ANSI/ICEA S-104-696; CSA FT-4

### Specifications

General Specifications	
Environment	Indoor/Outdoor Cables
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser)
Cable Type	Loose Tube
Product Type	Interlocking armor
Flame Rating	Riser (OFCR)
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	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6



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Cable Design	
Number of Active Tubes	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Таре	Water-swellable
Number of Ripcords	2
Inner Jacket Material	Flame-Retardant, UV-Resistant
Tensile Strength Elements and/or Armoring - Layer 1	Interlocking armor
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Black

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	810 N (180 lbf)
Min. Bend Radius Installation	299 mm (11.8 in)
Nominal Outer Diameter	20.7 mm (0.81 in)
Min. Bend Radius Operation	207 mm (8.15 in)
Weight	293 kg/km (196.8 lb/1000 ft)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

## **Fiber Specifications**

Optical Characteristics (cabled)	
Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
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



12 F, Single-mode (OS2)



### **Ordering Information**

Part Number	012EUF-T4101DA1
Product Description	FREEDM <sup>®</sup> Loose Tube, Gel-Free, Interlocking Armored Cable, Riser, 12 F, Single-mode (OS2)
EAN Code	4056418174211



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