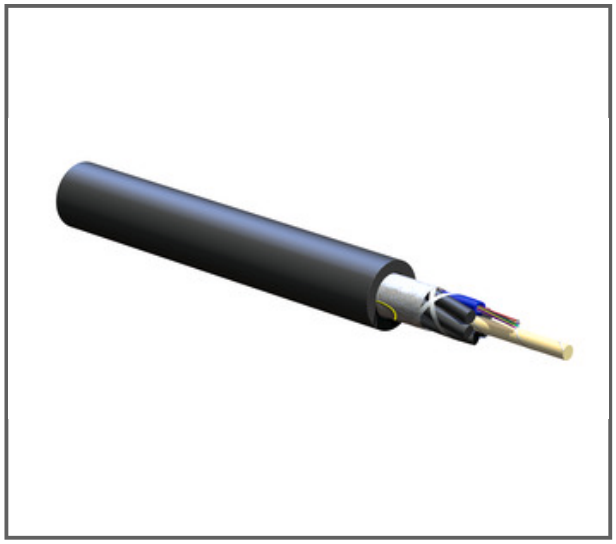
FREEDM® Loose Tube, Gel-Free Cable, Riser 12 F, 50 µm multimode (OM2)

Part Number:
012TUF-T4131D20

Corning FREEDM® loose tube gel-free riser cables are flame-retardant, indoor/outdoor, riser-rated cables designed for interbuilding and intrabuilding backbones in aerial, duct and riser applications. These cables are protected against water penetration by innovative waterblocking materials 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 quick, easy identification. The SZ-stranded, loose tube design isolates fibers from installation and environmental rigors and allows for easy mid-span 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.

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
Stable performance and compatibility with all common fiber types

Color-coded tubes and fibers
Quick and easy identification

All-dielectric construction
Requires no grounding or bonding

Common installations
Outdoor lashed aerial and duct; indoor vertical riser and general purpose horizontal according to National Electrical Code (NEC) Article 770

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Specifications

Mechanical Specifications	
Max. Tensile Strength, Long-Term	810 N
Max. Tensile Strength, Short-Term	2700 N
Min. Bend Radius Installation	195 mm (7.68 in)
Min. Bend Radius Operation	130 mm (5.12 in)
Nominal Outer Diameter	13 mm (0.51 in)

Cable Design	
Central Element	Dielectric
Fiber Count	12
Buffer Tube Color Coding	Blue
Number of Ripcords	2
Outer Jacket Color	Black
Outer Jacket Material	Flame-Retardant, UV-Resistant
Buffer Tube Color	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	1
Number of Filling Elements	5
Number of Tube Positions	6
Tape	Water-swellable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

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CORNING

Environmental Conditions

Temperature Range, Installation	-10 °C - 60 °C (14 °F - 140 °F)
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Operation	-40 °C - 70 °C (-40 °F - 158 °F)

General Specifications

Environment	Indoor/Outdoor
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	50 µm MM (OM2)
Flame Rating	Riser (OFNR)
Application	Aerial , Direct Buried , Duct , General Purpose Horizontal

Ordering Information

Weight	146 kg/km

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFNR CSA OFN FT-4
Design and Test Criteria	ANSI/ICEA S-104-696

Optical Characteristics

Fiber Code	T

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Optical Characteristics	
Fiber Type	Multimode
Performance Option Code	31
Fiber Core Diameter	50 µm
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Serial 1 Gigabit Ethernet	750 MHz*km / 500 MHz*km
Serial 10 Gigabit Ethernet	150 MHz*km / -
Wavelengths	850 nm / 1300 nm
Fiber Category	OM2

RoHS COMPLIANT

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