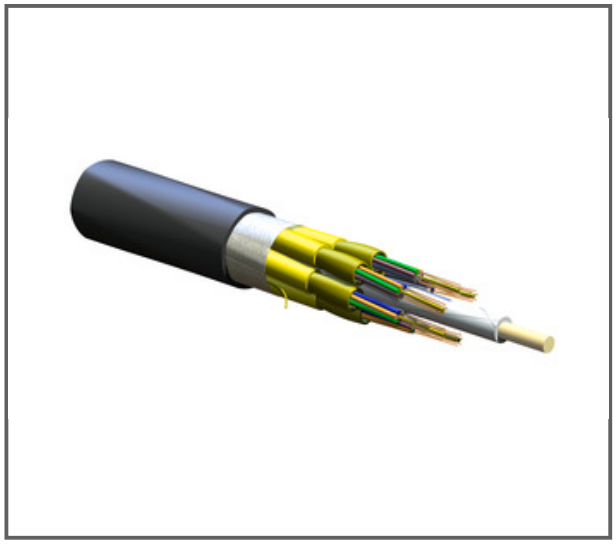
FREEDM® One Unitized, Tight-Buffered Cable, Riser 36 F, Single-mode (OS2)

Part Number:
036E8F-61131-29

Corning FREEDM® One unitized 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. Available in fiber counts up to 144 fibers, the tight-buffered construction facilitates easy termination for high-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 fibers are grouped into 6-, 12-, or 24-fiber jacketed subunits and surrounded by a dielectric central member.

Available in 50 µm, 62.5 µm, single-mode and hybrid versions, the cable design meets ICEA S-104-696 test criteria and is also OFNR and FT-4 listed for riser and general purpose use. 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 UV-resistant, flame-retardant jacket is rugged, durable and easy to strip. This cable is also available with interlocking armor for special applications requiring additional mechanical durability.



Features and Benefits

6-fiber jacketed subunits
Quick and easy identification

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

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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	240 mm (9.45 in)
Min. Bend Radius Operation	160 mm (6.3 in)
Nominal Outer Diameter	16 mm (0.63 in)

Cable Design	
Central Element	Dielectric
Fiber Count	36
Number of Ripcords	2
Outer Jacket Color	Black
Outer Jacket Material	Flame-Retardant, UV-Resistant
Fibers per Subunit	6
Number of Active Tubes	6
Subunit Color	Yellow
Subunit Diameter	4.4 mm (0.17 in)
Tape	Water-swellable
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White
Flame Rating	Riser (OFNR)

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CORNING

Environmental Conditions

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

General Specifications

Environment	Indoor/Outdoor
Cable Type	Tight-Buffered
Product Type	Distribution
Fiber Category	Single-mode (OS2)
Flame Rating	Riser (OFNR)
Application	Direct Buried , Duct , General Purpose Horizontal , Vertical Riser

Ordering Information

Weight	190.79 kg/km

Standards

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

Optical Characteristics

Fiber Code	E

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Optical Characteristics	
Fiber Name	SMF-28e+® fiber
Fiber Type	Single-mode
Performance Option Code	31
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.4 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D

RoHS COMPLIANT

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