

FREEDM® One Tight-Buffered Cable, Riser

24 F, Single-mode (OS2)

271300-2.1-A1

CORNING

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 TBII® 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

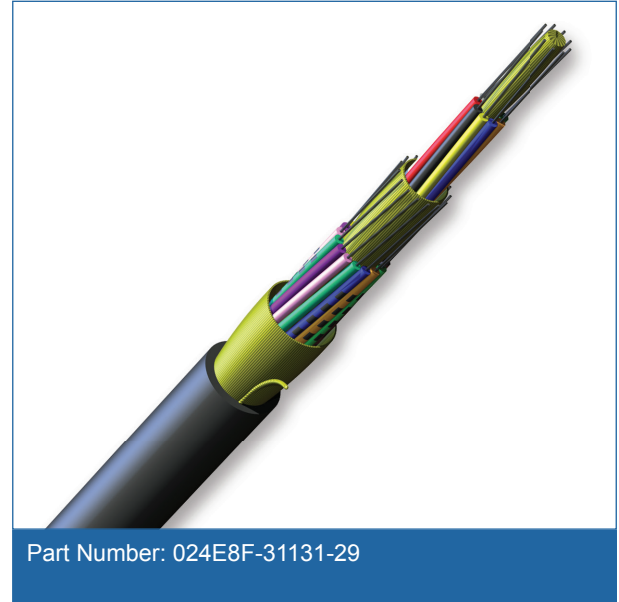
Quick and easy identification

All-dielectric construction

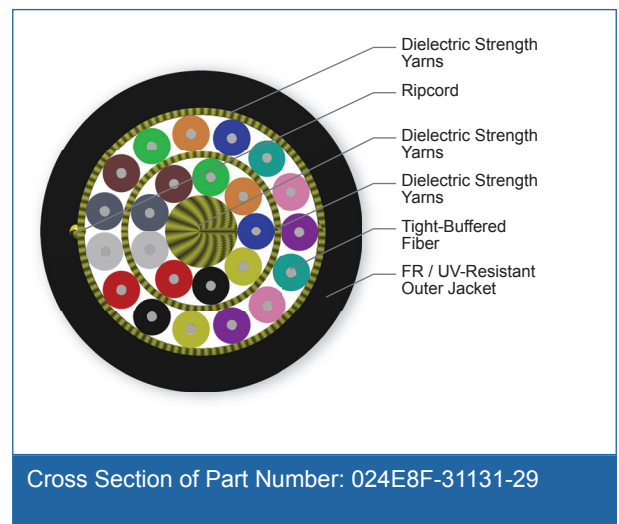
Requires no grounding or bonding

UV-resistant, flame-retardant jacket

Rugged, durable and easy to strip



Part Number: 024E8F-31131-29



Cross Section of Part Number: 024E8F-31131-29

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	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	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements and/or Armoring - Layer 1	Water-swellable strength members
Number of Ripcords	1
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Black

Mechanical Characteristics Cable

Weight	57.1 kg/km (38.4 lb/1000 ft)
Nominal Outer Diameter	8.0 mm (0.31 in)
Min. Bend Radius Installation	120 mm (4.7 in)
Min. Bend Radius Operation	80 mm (3.1 in)
Max. Tensile Strength, Short-Term	1350 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	SMF-28e® fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.50 dB/km

Ordering Information

Part Number	024E8F-31131-29
Product Description	FREEDM® One Tight-Buffered Cable, Riser, 24 F, Single-mode (OS2)
EAN Code	4056418198590



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77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0007

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 03/10/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Riser cable

ATTN: Kelvin Patel

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☒ Attached	☐ Returned for Corrections
☒ Other: product data	☐ Separate Cover Via:	☒ Due Date: 03/17/2016

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		271300-001				Riser cable	Submitted

NOTES:



CC:

**PARIC CORPORATION
SUBMITTAL STAMP**

Signed: _____
Devin Gates

**THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC
CORPORATION**

Subcontractor remains responsible for dimensions, quantities, coordination
with other trades and compliance with contract documents.

By:

Devin D. Gates

Date:

Mar 10, 2016

Submittal #:

271300-001 - Riser cable.pdf