

# ClearCurve® Rugged Drop, Indoor/Outdoor, Tight-Buffered Cable

2 F, Single-mode (OS2)

CORNING

Corning ClearCurve® rugged drop cables are part of a product family developed to solve the challenges associated with multidwelling unit (MDU) deployments. Enabled by a truly bend-insensitive fiber, this rugged drop cable can be bent to a minimum bend radius of 5 mm (0.2 in) and be directly stapled to wall studs and rafters with standard cable staples and hardware-store variety staple guns.

The cable consists of two bend-insensitive fibers tight-buffered with a 900 µm jacket, surrounded by dielectric strength members and an outer flame-retardant jacket. The available indoor/outdoor version that is fully water-blocked with a black UV-resistant outer jacket and riser-rated (OFNR) for vertical riser and general-purpose horizontal applications.

The product is available in convenient contractor-sized packaging for easy field deployment and features bend-insensitive single-mode fiber, which enables installers to route the subunit around tight corners down to 5 mm (0.2 in) radius inside the home.



## Features and Benefits

### Flexible, robust cable

Solves unique challenges associated with MDU deployments

### Self-bend-limiting design

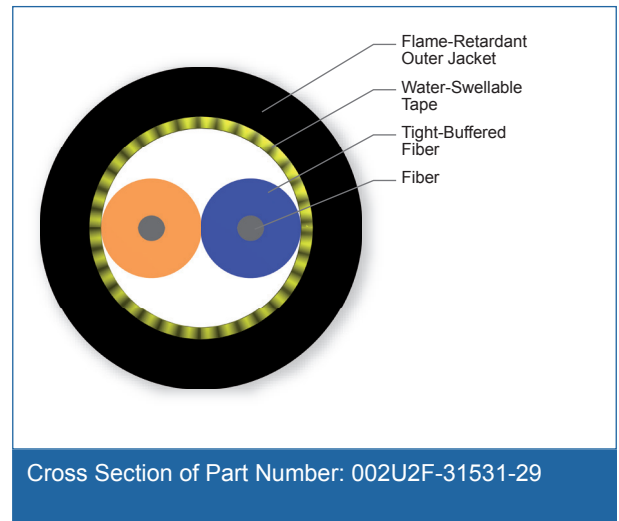
Can be directly stapled and routed around tight corners

### Outperforms typical copper cables (RG-6 Coaxial)

Higher bandwidth, lighter weight, smaller OD and bend-radius

### Waterblocking technology

Allows efficient and craft-friendly cable preparation



## Standards

### Approvals and Listings

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

### Design and Test Criteria

ANSI/ICEA S-104-696;  
Telcordia GR-409

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## Standards

**Common Installations** MDU drop cable applications from last terminal to and within living unit including outdoor and indoor vertical riser and general-purpose horizontal according to NEC Article 770

## Specifications

General Specifications	
Environment	Indoor/Outdoor
Application	Lashed Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser)
Cable Type	Drop
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)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-5 °C 60 °C (23 °F 140 °F)

Cable Design	
Fiber Count	2
Fiber Coloring	Blue, Orange
Tensile Strength Elements and/or Armoring - Layer 1	Water-swellable dielectric strength members
Outer Jacket Material	Flame-Retardant, UV-Resistant
Outer Jacket Color	Black

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	450 N (100 lbf)
Max. Tensile Strength, Long-Term	150 N (30 lbf)
Weight	21 kg/km (13.7 lb/1000 ft)

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## Mechanical Characteristics Cable

Nominal Outer Diameter	4.8 mm (0.19 in)
Min. Bend Radius Installation	4 mm (0.16 in)
Min. Bend Radius Operation	4 mm (0.16 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Name	ClearCurve® ZBL
Fiber Category	G.657.B3/G.652.D
Fiber Code	U
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
Typical Attenuation*	0.35 dB/km / 0.35 dB/km / 0.20 dB/km

\* For more information on typical attenuation please see the Corning whitepaper at [http://csmedia.corning.com/opcomm//Resource\\_Documents/whitepapers\\_r/ LAN-1863-AEN.pdf](http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_r/ LAN-1863-AEN.pdf)

## Ordering Information

Part Number	002U2F-31531-29
Product Description	ClearCurve® Rugged Drop, Indoor/Outdoor, Tight-Buffered Cable, 2 F, Single-mode (OS2)



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