

# Reel In A Box, Single-Fiber, Tight-Buffered Cable, Plenum

1.6 mm diameter, 50  $\mu$ m multimode (OM2)

CORNING

Reel in a Box is Corning's innovative packaging solution for small reels of fiber optic cable in all inside plant applications, such as collocation data centers and wireless projects. This packaging solution provides features that enable our customers greater efficiencies than before.

Corning single-fiber cables are designed for interconnect applications. A 900  $\mu$ m buffered fiber is surrounded by aramid yarn strength members and a flame-retardant jacket. Dielectric strength members offer mechanical durability and the flame-resistant jacket meet requirements of the National Electrical Code® (NEC®) Article 770.

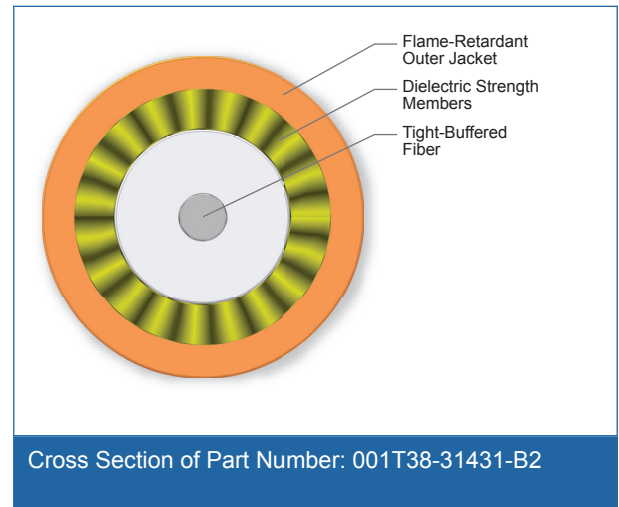
## Features and Benefits

"Countdown" print indicates available cable remaining on the reel providing easier inventory management

Stackable boxes make storage more manageable

Smaller reel offerings mean smaller cable lengths than would normally be available

Cable cutting at Corning lowers operating expenses for our distributors and end users



## Standards

**Waterblocking** IEC 60794-1-2 F5

## Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interconnect
Fiber Category	50 $\mu$ m MM (OM2)
Fiber Length	300 m (1000 ft)

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## Temperature Range

Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)
Storage	-40 °C to 70 °C (40 °F to 158 °F)

## Cable Design

Fiber Count	1
Tight Buffer Color	White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Orange

## Mechanical Characteristics Cable

Weight	2.7 kg/km (1.8 lb/1000 ft)
Nominal Outer Diameter	1.6 mm (0.06 in)
Max. Tensile Strength, Short-Term	150 N (33 lbf)
Max. Tensile Strength, Long-Term	45 N (10 lbf)
Min. Bend Radius Installation	25 mm (1.0 in)

## Chemical Characteristics

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

### Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM2
Fiber Code	T
Performance Option Code	31
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	750 m / 600 m
Serial 10 Gigabit Ethernet	150 m / -

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## Fiber Specifications

Optical Characteristics (cabled)	
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -

## Ordering Information

Part Number	001T38-31431-B2
Product Description	Reel in a Box, Single-Fiber Tight-Buffered Cable, Plenum, 1.6 mm diameter, 50 µm multimode (OM2)
EAN Code	4056418154619

## Shipping Information

Packaging Method	Reel In A Box
Dimensions (HxWxD)	39.37 cm x 39.37 cm x 38.73 cm (15.5 in x 15.5 in x 15.25 in)



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