

# MIC® Unitized Tight-Buffered Cable, Plenum

36 F, Single-mode (OS2)

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Corning Cable Systems MIC® Unitized Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations. These multifiber cables use individually jacketed 900 µm TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The stranded sub-units of six or 12 fibers allow quick and easy identification and are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Unitized Riser Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and the ICEA S-83-596 test criteria. They are OFNP and FT-6 listed.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

## Features and Benefits

### 900 µm TBII® Buffered Fibers

Easy, consistent stripping

### 6- or 12-fiber jacketed subunits

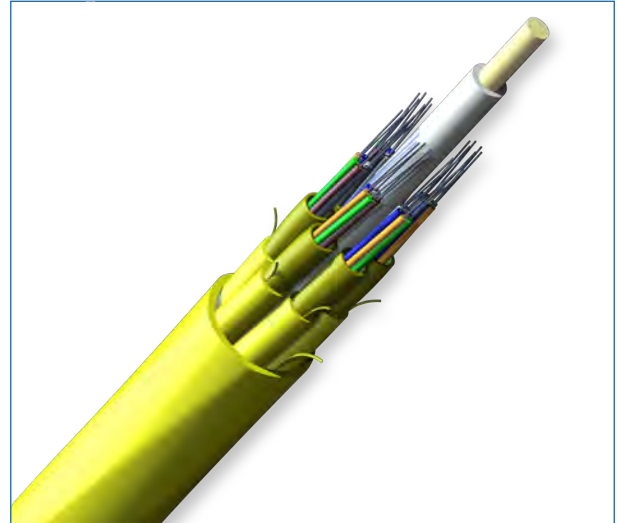
Quick and easy identification

### All-dielectric construction

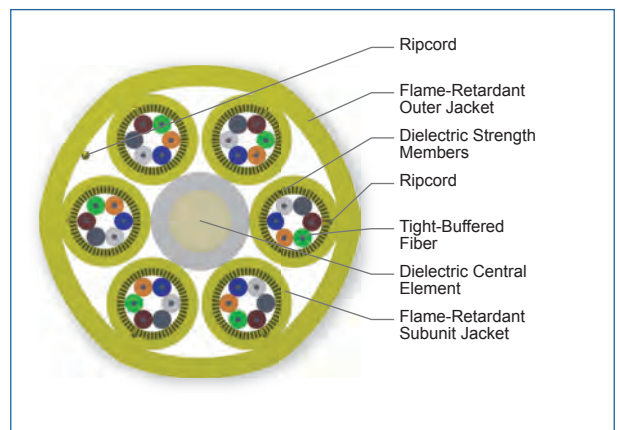
Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable



Part Number: 036E88-61131-29



Cross Section of Part Number: 036E88-61131-29

## Standards

### Approval and Listings

National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596

### Flame Resistance

NFPA 262 (for plenum, riser and general building applications)

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### Specifications

#### General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	Single-mode (OS2)

#### Temperature Range

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

#### Cable Design

Central Element	Jacketed GRP
Fiber Count	36
Subunit Central Element	Dielectric
Fibers per Subunit	6
Tight buffer color subunit	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Subunit Color	Yellow
Number of Subunits	6
Number of Ripcords	7
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

#### Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	14.8 mm (0.58 in)
Weight	219 kg/km (147 lb/1000 ft)
Min. Bend Radius Installation	222 mm (8.7 in)
Min. Bend Radius Operation	148 mm (5.8 in)

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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 Type	Single-mode
Fiber Core Diameter	8.2 $\mu$ m
Fiber Category	OS2
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.5 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant.

Notes: 1) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

### Ordering Information

Part Number	036E88-61131-29
Product Description	MIC <sup>®</sup> Unitized Tight-Buffered Cable, Plenum, 36 F, Single-mode (OS2)



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