

# MIC<sup>®</sup> Unitized Tight-Buffered Cable, Plenum

48 F, 62.5 μm multimode (OM1)

CORNING

Corning MIC<sup>®</sup> 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 buffered fibers enabling easy, consistent stripping and facilitating termination. The stranded subunits of 6-, 12-, or 24-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<sup>®</sup> (NEC<sup>®</sup>) 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, violet, 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 Buffered Fibers

Easy, consistent stripping

### 6- or 12-fiber jacketed subunits

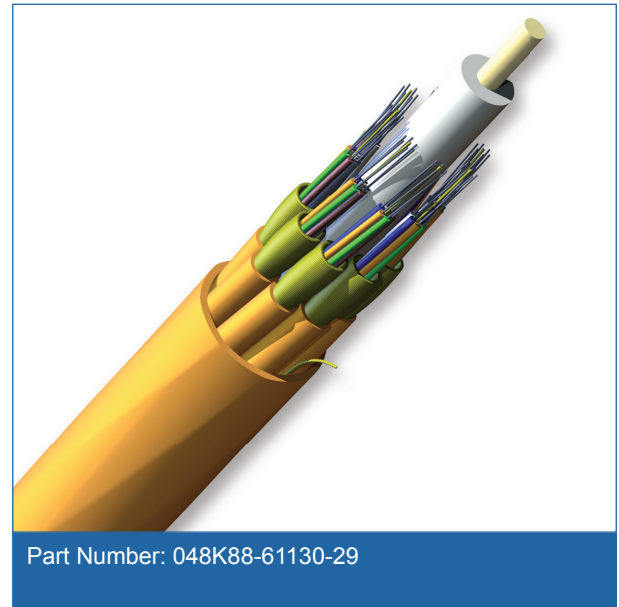
Quick and easy identification

### All-dielectric construction

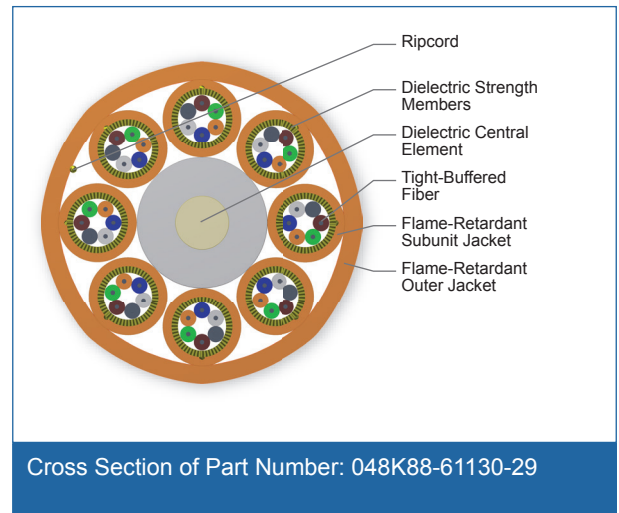
Requires no grounding or bonding

### Flame-retardant jacket

Rugged and durable



Part Number: 048K88-61130-29



Cross Section of Part Number: 048K88-61130-29

## Standards

### Approvals and Listings

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

### Flame Resistance

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

CORNING

# MIC<sup>®</sup> Unitized Tight-Buffered Cable, Plenum

48 F, 62.5 μm multimode (OM1)

CORNING

## 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	62.5 μm MM (OM1)

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	48
Number of Active Tubes	8
Subunit Color	Orange
Number of Fibers per Subunit	6
Subunit Diameter	4.40 mm (0.17 in)
Tight buffer color subunit	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	9
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Orange

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	660 N (150 lbf)
Max. Tensile Strength, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	17.8 mm (0.70 in)
Weight	297.9 kg/km (211.0 lb/1000 ft)
Min. Bend Radius Installation	267 mm (10.5 in)
Min. Bend Radius Operation	178 mm (7.0 in)

# MIC<sup>®</sup> Unitized Tight-Buffered Cable, Plenum

48 F, 62.5 µm multimode (OM1)

CORNING

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Core Diameter	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -

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

## Ordering Information

Part Number	048K88-61130-29
Product Description	MIC <sup>®</sup> Unitized Tight-Buffered Cable, Plenum, 48 F, 62.5 µm multimode (OM1)
EAN Code	4056418190549



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.

CORNING