

MIC[®] Tight-Buffered Cable, Plenum

12 F, 62.5 μm multimode (OM1)

CORNING

Corning Cable Systems MIC[®] Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multi-fiber cables use 900 μm TBII[®] Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket. The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code[®] (NEC[®]) Article 770 and are OFNP and FT-6 listed.

Features and Benefits

900 μm TBII[®] Buffered Fibers

Easy, consistent stripping

All-dielectric construction

Requires no grounding or bonding

Flame-retardant jacket

Rugged and durable

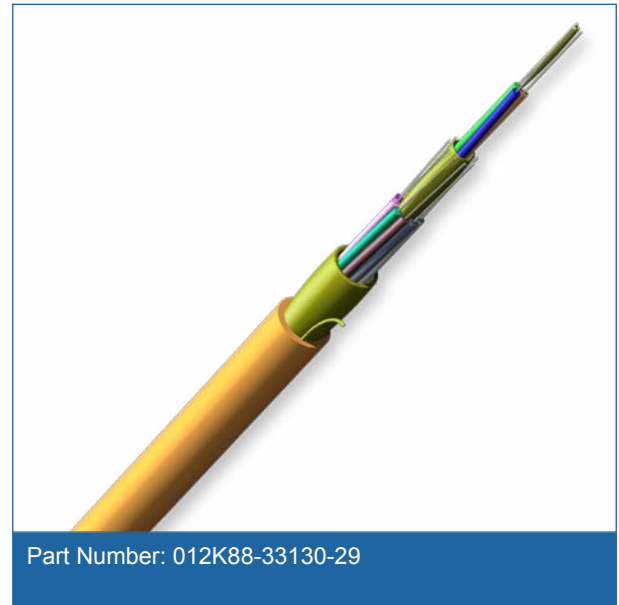
Standards

Approval and Listings

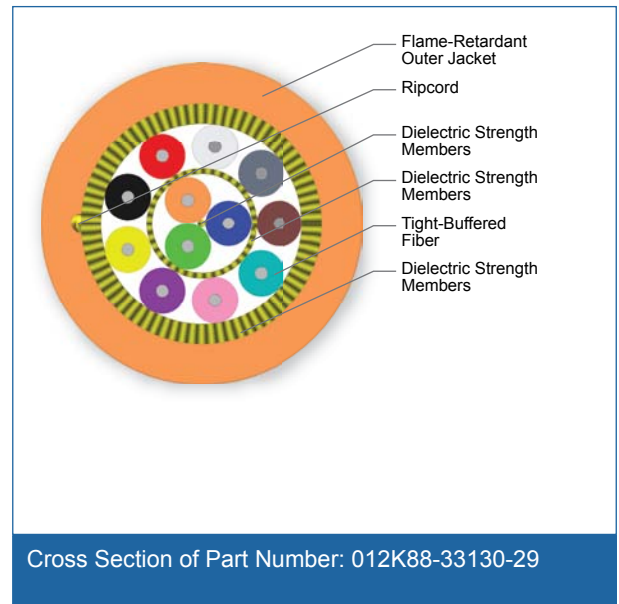
National Electrical Code[®]
(NEC) OFNP, CSA FT-6,
ICEA S-83-596

Flame Resistance

NFPA 262 (for plenum, riser
and general building appli-
cations)



Part Number: 012K88-33130-29



Cross Section of Part Number: 012K88-33130-29



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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 | 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 | Yarn |
| Fiber Count | 12 |
| Tight buffer color | Blue, Orange, Green |
| Tensile strengths elements / armoring - Layer 1 | Dielectric strength members |
| Tight buffer color, layer 2 | Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Tensile strengths elements / armoring - Layer 2 | Dielectric strength members |
| Number of Ripcords | 1 |
| Outer jacket material | Flame-retardant |
| Outer jacket color | Orange |

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Mechanical Characteristics Cable

| | |
|------------------------------------|--------------------------|
| Max. Tensile Strengths, Short-Term | 440 N (100 lbf) |
| Max. Tensile Strengths, Long-Term | 132 N (30 lbf) |
| Nominal Outer Diameter | 6.1 mm (0.24 in) |
| Weight | 37 kg/km (26 lb/1000 ft) |
| Min. Bend Radius Installation | 92 mm (3.6 in) |
| Min. Bend Radius Operation | 31 mm (1.2 in) |

Fiber Specifications

Optical Characteristics (cabled)

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

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

Ordering Information

| | |
|---------------------|---|
| Order Number | 012K88-33130-29 |
| Product description | MIC [®] Tight-Buffered Cable, Plenum, 12 F, 62.5 μ m multimode (OM1) |

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The logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

Notes

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