

MIC[®] Unitized Tight-Buffered, Interlocking Armored Cable, Plenum

48 F, 62.5 μm multimode (OM1)

CORNING

Corning MIC[®] unitized interlocking armored plenum cables are standard MIC unitized cables designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed 900 μm buffered fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into 6-, 12-, or 24-fiber jacketed subunits for quick and easy identification. These subunits surround a dielectric central member and are protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and up to seven times the crush protection of unarmored cables.

With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables for routing inside buildings, through riser shafts, to telecommunication rooms and to workstations.

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

Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

TBII buffered fibers

Easy, consistent stripping

6-, 12- or 24-fiber jacketed subunits

Quick and easy identification

Flame-retardant jacket

Rugged and durable

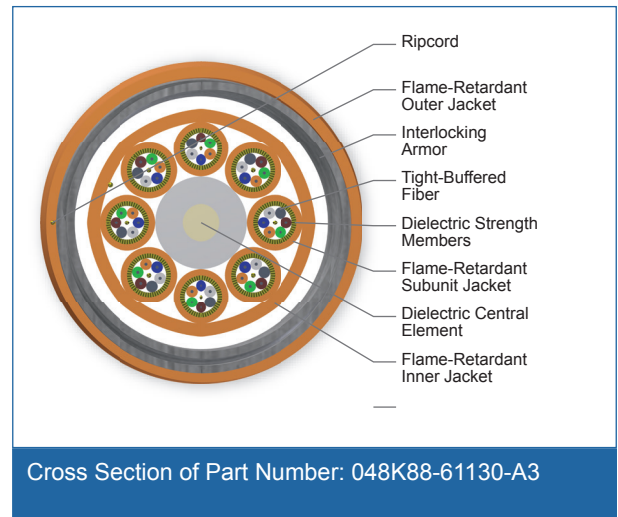
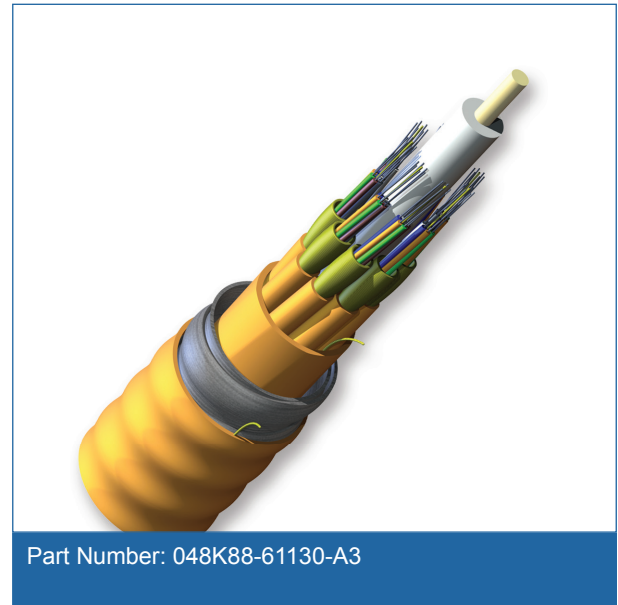
Standards

Approvals and Listings

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

Flame Resistance

UL-1666 (for 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 | Interlocking armor |
| Flame Rating | Plenum (OFCP) |
| 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 | 10 |
| 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 Inner Cable Diameter | 17.8 mm (0.70 in) |
| Nominal Outer Diameter | 24.9 mm (0.98 in) |
| Weight | 496.9 kg/km (333.9 lb/1000 ft) |

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Mechanical Characteristics Cable

| | |
|-------------------------------|------------------|
| Min. Bend Radius Installation | 374 mm (14.7 in) |
| Min. Bend Radius Operation | 249 mm (9.8 in) |

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-A3 |
| Product Description | MIC [®] Unitized Tight-Buffered, Interlocking Armored Cable, Plenum, 48 F, 62.5 µm multimode (OM1) |
| EAN Code | 4056418173542 |



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