

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

48 F, Single-mode (OS2)

CORNING

Corning Cable Systems 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 TBII[®] Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into six or 12-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 over 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, 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

Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

TBII[®] Buffered Fibers

Easy, consistent stripping

6- or 12-fiber jacketed subunits

Quick and easy identification

Flame-retardant jacket

Rugged and durable

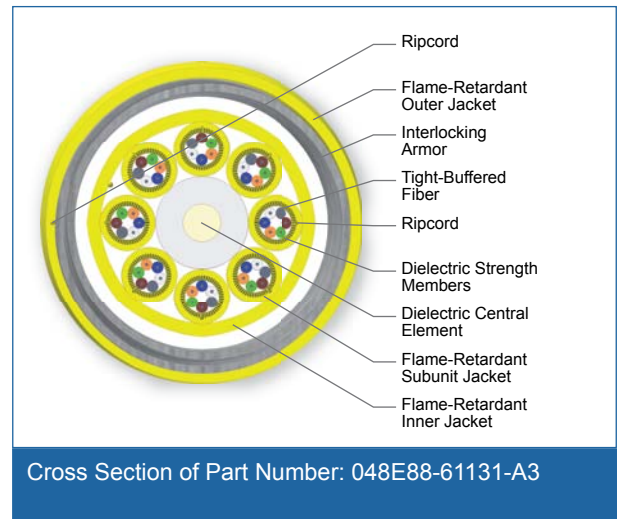
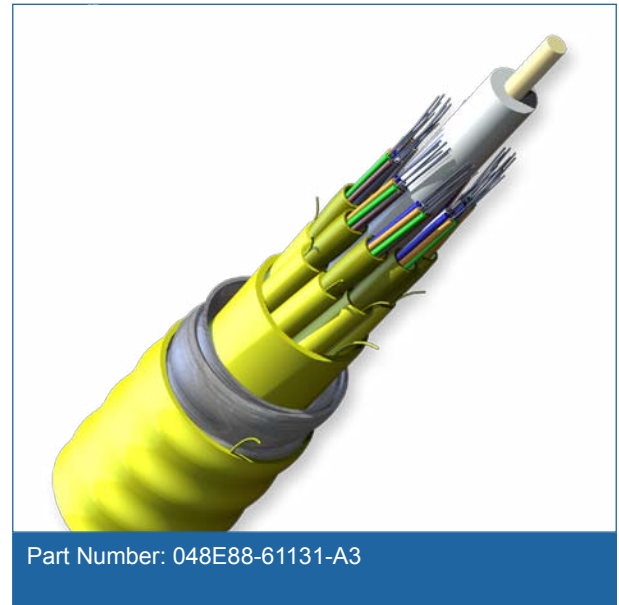
Standards

Approval 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	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	48
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	8
Number of Ripcords	10
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
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 Inner Cable Diameter	17.8 mm (0.69 in)
Nominal Outer Diameter	25.9 mm (1.02 in)
Weight	606 kg/km (407 lb/1000 ft)

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Mechanical Characteristics Cable

Min. Bend Radius Installation	389 mm (15.3 in)
Min. Bend Radius Operation	259 mm (10.2 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	8.2 μ m
Fiber Type	Single-mode
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	048E88-61131-A3
Product Description	MIC [®] Unitized Tight-Buffered, Interlocking Armored Cable, Plenum, 48 F, Single-mode (OS2)

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The CORNING logo is a blue square with the word "CORNING" in white, uppercase, sans-serif font centered inside.

Notes



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