

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

2 F, 50 μm multimode (OM4)

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Corning MIC[®] interlocking armored plenum cables are 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 jacketed subunits and surrounded by a dielectric central member.

The core is 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.

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

Flame-retardant jacket

Rugged and durable

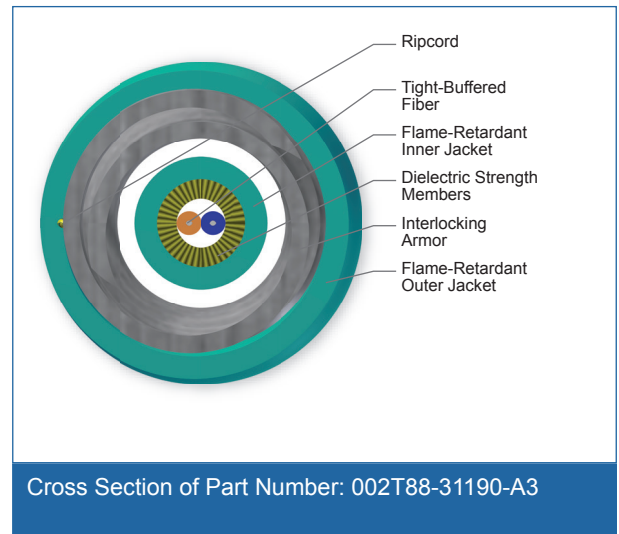
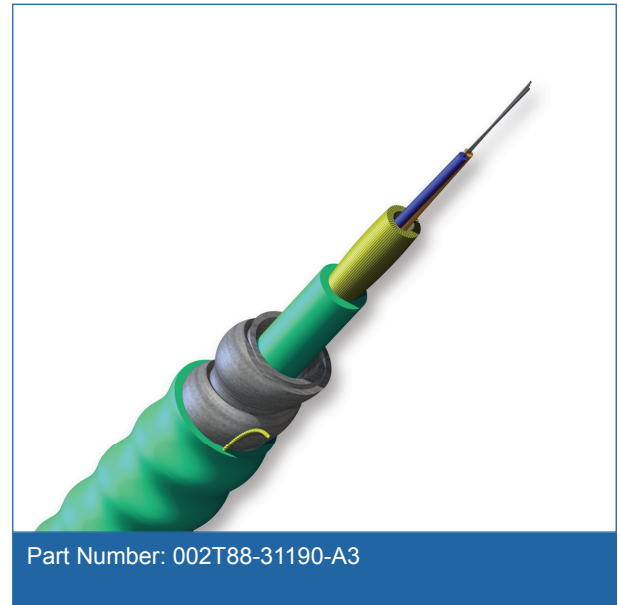
Standards

Approvals and Listings

National Electrical Code[®] (NEC[®]) OFCP, 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	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 μ m MM (OM4)

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	2
Tight Buffer Color	Blue, Orange
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Number of Ripcords	1
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term, \leq 12F	440 N (100 lbf)
Max. Tensile Strength, Short-Term, $>$ 12F	660 N (160 lbf)
Max. Tensile Strength, Long-Term, \leq 12F	132 N (30 lbf)
Max. Tensile Strength, Long-Term, $>$ 12F	200 N (45 lbf)
Nominal Inner Cable Diameter	5.0 mm (0.20 in)
Nominal Outer Diameter	11.3 mm (0.45 in)
Weight	99 kg/km (67 lb/1000 ft)

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Mechanical Characteristics Cable

Min. Bend Radius Installation	170 mm (6.7 in)
Min. Bend Radius Operation	113 mm (4.5 in)
Max. Tensile Strength, Short-Term	440 N (100 lbf)
Max. Tensile Strength, Long-Term	132 N (30 lbf)

Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -

Ordering Information

Part Number	002T88-31190-A3
Product Description	MIC [®] Tight-Buffered Interlocking Armored Cable, Plenum, 2 F, 50 µm multimode (OM4)
EAN Code	4056418175843



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