

MIC® DX Tight-Buffered Armored Cable, Plenum

12 F, 50 µm multimode, extended 10G distance (OM4)

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Corning Cable Systems MIC® DX Armored Plenum Cables are standard MIC subunits placed inside a dielectric armor for ruggedness and superior crush resistance without the conductive properties of traditional armor. These cables are designed for use in intrabuilding backbone and horizontal installations. Individually jacketed TBI® Buffered Fibers enable easy, consistent stripping and facilitate termination.

The fibers are stranded around a dielectric central member that is protected by a flexible, all-dielectric armor offering easy, one-step installation and over four 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, 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

Dielectric armor

Four times crush protection compared to unarmored

TBI® Buffered Fibers

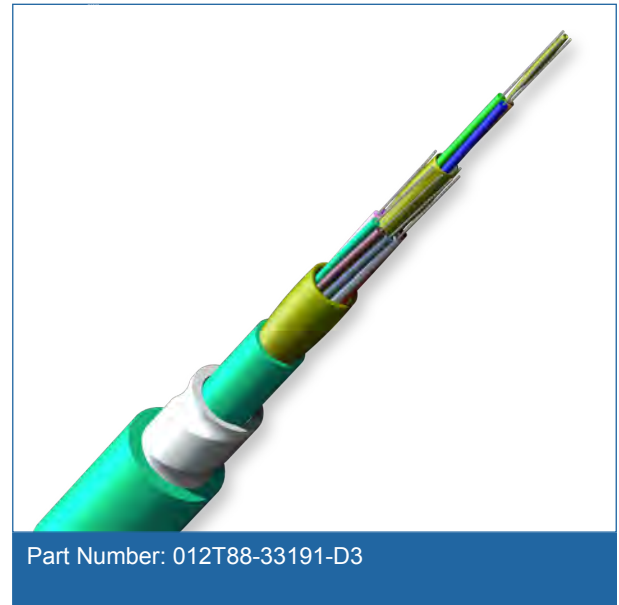
Easy, consistent stripping

Flame-retardant jacket

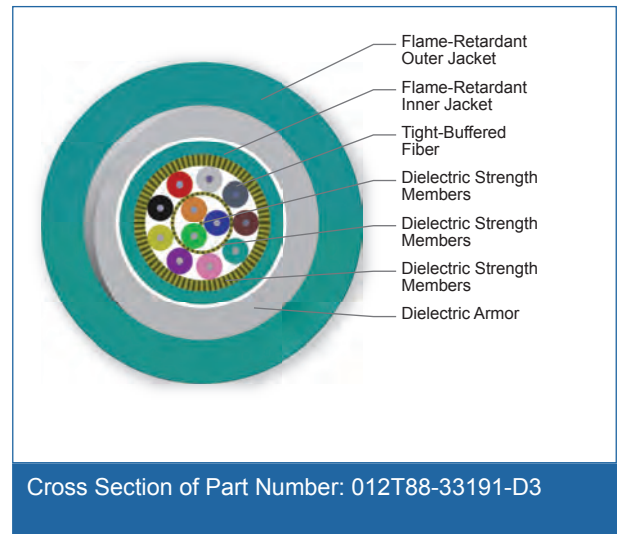
Rugged and durable

Easy armor removal

Increased safety and speed at installation



Part Number: 012T88-33191-D3



Cross Section of Part Number: 012T88-33191-D3

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 applications)

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Specifications

General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Plenum
Cable Type	Tight-Buffered
Product Type	Dielectric armor
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm 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

Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Dielectric armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable

Nominal Inner Cable Diameter	5.6 mm (0.22 in)
Nominal Outer Diameter	11.5 mm (0.45 in)
Weight	143.3 kg/km (96.3 lb/1000 ft)
Max. Tensile Strengths, Short-Term	1000 N (225 lbf)
Max. Tensile Strengths, Long-Term	593 N (133 lbf)
Min. Bend Radius Installation	173 mm (6.8 in)
Min. Bend Radius Operation	115 mm (4.5 in)

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Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	5350 MHz*km / -
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	600 m / -

* Assumes 0.7 dB maximum total connector/splice loss.

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
2) Improved attenuation and bandwidth options available.
3) Bend-insensitive single-mode fibers available on request.
4) Contact a Corning Cable Systems Customer Care Representative for additional information.

Ordering Information

Part Number	012T88-33191-D3
Product Description	MIC® DX Tight-Buffered Armored Cable, Plenum, 12 F, 50 µm multimode, extended 10G distance (OM4)



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