MIC® DX Tight-Buffered Armored Cable, Plenum

12 F, 50 µm multimode (OM2)

CORNING

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 TBII® 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.

Part Number: 012T88-33131-D3

- Flame-Retardant Outer Jacket
- Flame-Retardant Inner Jacket
- Tight-Buffered Fiber
- Dielectric Strength Members
- Dielectric Strength Members
- Dielectric Strength Members
- Dielectric Armor

Cross Section of Part Number: 012T88-33131-D3

Features and Benefits

Dielectric armor
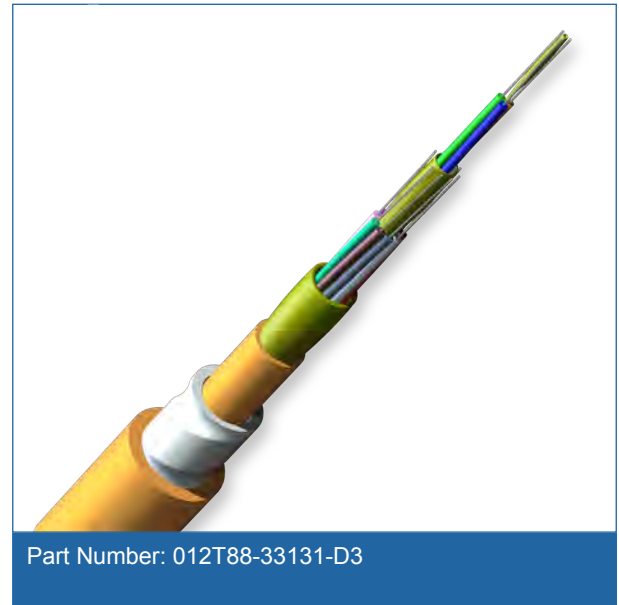Four times crush protection compared to unarmored

TBII® Buffered Fibers
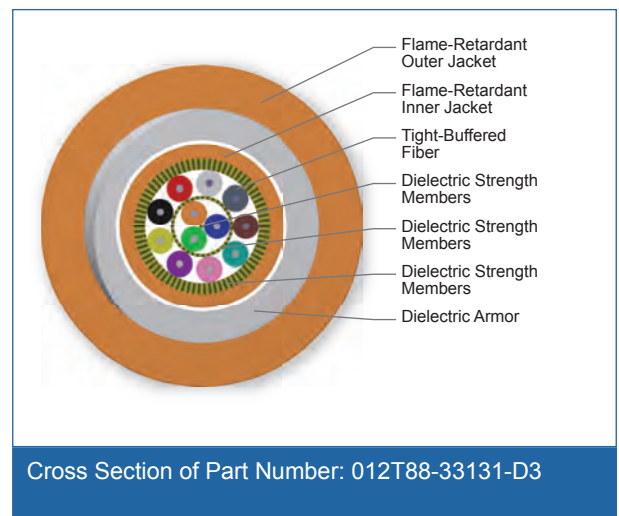Easy, consistent stripping

Flame-retardant jacket
Rugged and durable

Easy armor removal
Increased safety and speed at installation

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 (OM2)

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	Orange

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	OM2
Fiber Code	T
Performance Option Code	31
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -
Serial 1 Gigabit Ethernet	750 m / 600 m
Serial 10 Gigabit Ethernet	150 m / -

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	012T88-33131-D3
Product Description	MIC® DX Tight-Buffered Armored Cable, Plenum, 12 F, 50 µm multimode (OM2)

RoHS
COMPLIANT

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