MIC® Unitized Tight-Buffered Cable, Plenum

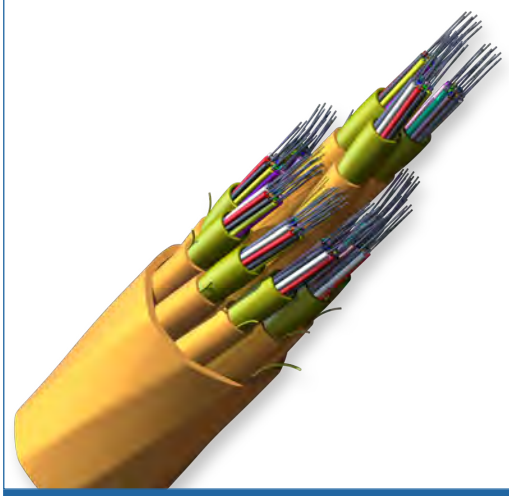
144 F, 50 µm multimode (OM2)

CORNING

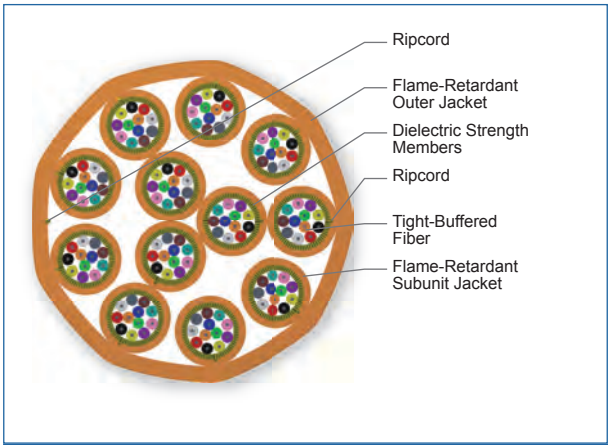
Corning Cable Systems MIC® Unitized Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations. These multifiber cables use individually jacketed 900 µm TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The stranded subunits of six or 12 fibers allow quick and easy identification and are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings including riser shafts, to the telecommunications rooms and workstations. The MIC Unitized Riser Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and the ICEA S-83-596 test criteria. They are OFNP and FT-6 listed.

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: 144T88-T3131-29



Cross Section of Part Number: 144T88-T3131-29

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

6- or 12-fiber jacketed subunits
Quick and easy identification

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable

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, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
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	144
Subunit Central Element	Dielectric
Fibers per Subunit	12
Tight buffer color subunit	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color Subunit, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Subunit Color	Orange
Number of Subunits Layer 1	3
Number of Subunits Layer 2	9
Number of Ripcords	13
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Orange

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	23.7 mm (0.92 in)
Weight	489 kg/km (328 lb/1000 ft)

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Mechanical Characteristics Cable	
Min. Bend Radius Installation	356 mm (14 in)
Min. Bend Radius Operation	237 mm (9.2 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/EG

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	144T88-T3131-29
Product Description	MIC® Unitized Tight-Buffered Cable, Plenum, 144 F, 50 µm multimode (OM2)

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Notes

RoHS COMPLIANT

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