

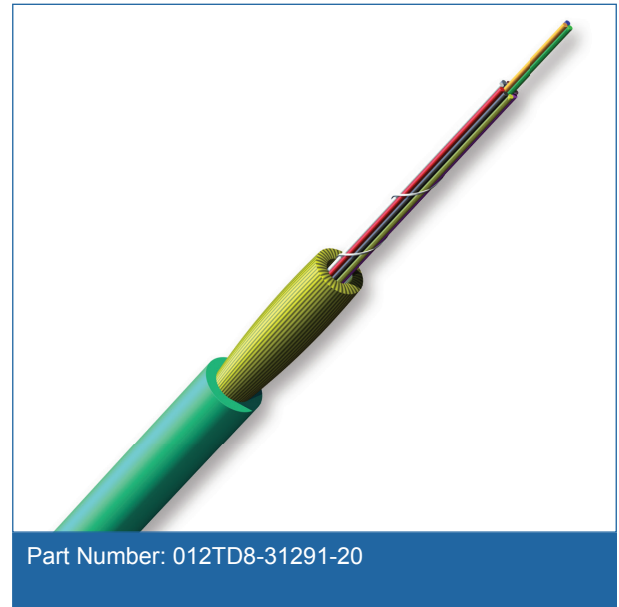
MIC[®] 250 Interconnect Cable, 3.0 mm, Plenum

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

CORNING

Corning MIC[®] 250 cables utilize 250 μ m color-coded optical fibers surrounded by dielectric strength members with a flexible, flame-retardant outer jacket. These cables are ideal for creating multifiber preconnectorized assemblies as the 12-fiber groupings enable efficient compatibility with multifiber connectors. The flexible, flame-retardant jacket and non-preferential bend axis allow easy installation in space-constrained areas. The core is protected by a flexible, spirally-wrapped, aluminum interlocking armor that offers easy, one-step installation.

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.



Part Number: 012TD8-31291-20

Features and Benefits

Color-coded fibers

Quick and easy identification

12-fiber groupings

Compatibility with multifiber connectors

All-dielectric construction

Requires no grounding or bonding

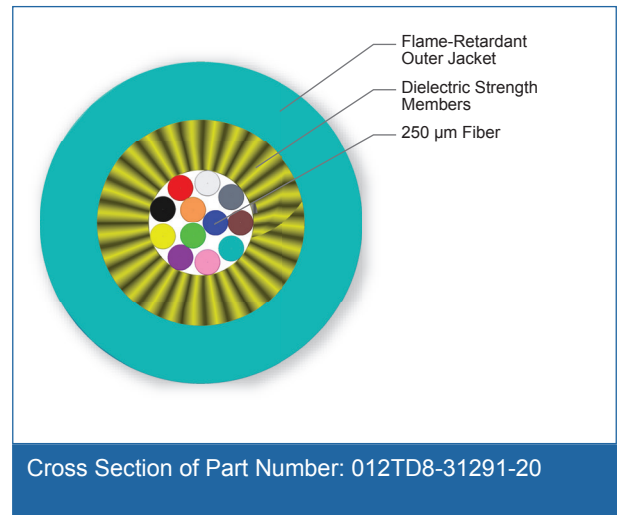
Standards

Listings

National Electrical Code[®]
(NEC[®]) OFNP, CSA FT-6,
ICEA S-83-596

Flame Resistance

NFPA 262 (for plenum, riser and general building applications)



Cross Section of Part Number: 012TD8-31291-20

MIC[®] 250 Interconnect Cable, 3.0 mm, Plenum

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

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Loose Tube
Product Type	Interconnect
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
Fibers per Subunit	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Weight	7.5 kg/km (5.0 lb/1000 ft)
Nominal Outer Diameter	3.0 mm (0.11 in)
Max. Tensile Strength, Short-Term	440 N (99 lbf)
Max. Tensile Strength, Long-Term	132 N (30 lbf)
Min. Bend Radius Installation	45 mm (1.97 in)
Min. Bend Radius Operation	30 mm (1.18 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

MIC[®] 250 Interconnect Cable, 3.0 mm, Plenum

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



Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 μ m
Fiber Category	OM4 Extended Distance
Fiber Code	T
Performance Option Code	91
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	600 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	5350 MHz*km / -

* Assumes 0.7 dB maximum total connector/splice loss.

* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50 μ m multimode fiber macrobend loss \leq 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 Customer Care Representative for additional information.

Ordering Information

Part Number	012TD8-31291-20
Product Description	MIC [®] 250 Interconnect Cable, 3.0 mm, Plenum, 12 F, 50 μ m multimode, extended 10G distance (OM4)



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks.

All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.