

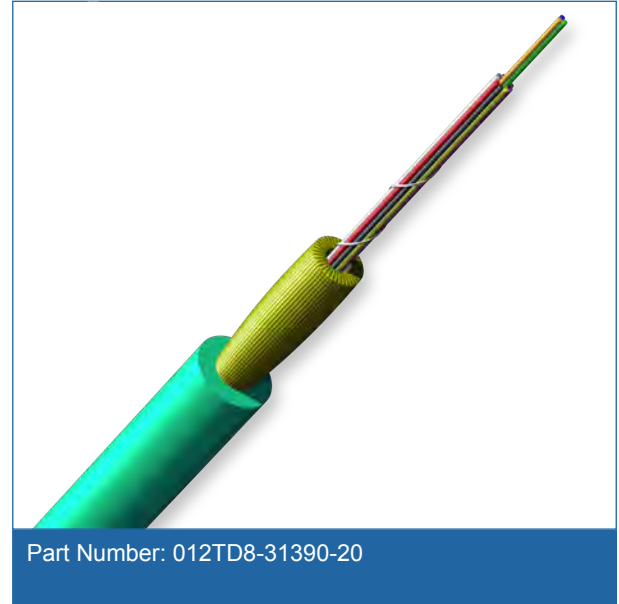
MIC® 250 Distribution Cable, Plenum

12 F, 50 µm multimode (OM4)

CORNING

Corning Cable Systems MIC® 250 Cables utilize 250 µm 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 and the all-dielectric cable construction requires no grounding or bonding. The MIC 250 Cables meet the application requirements of the National Electrical Code® (NEC Article 770) and are OFNP and FT-6 listed for plenum, riser or general purpose applications.

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

Color-coded fibers

Quick and easy identification

12-fiber groupings

Compatibility with multifiber connectors

All-dielectric construction

Requires no grounding or bonding

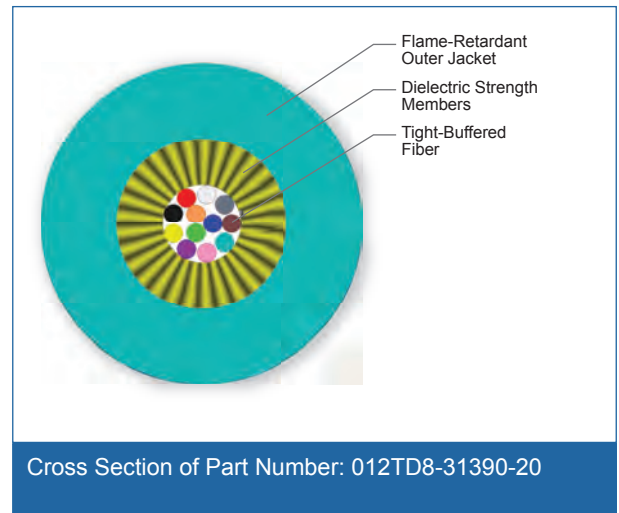
Standards

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	Loose Tube
Product Type	Distribution
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	20.1 kg/km (13.5 lb/1000 ft)
Nominal Outer Diameter	4.4 mm (0.17 in)
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Min. Bend Radius Installation	66 mm (2.6 in)
Min. Bend Radius Operation	22 mm (0.9 in)

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Multimode
Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -

* Assumes 1.0 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	012TD8-31390-20
Product Description	MIC® 250 Distribution Cable, Plenum, 12 F, 50 µm multimode (OM4)



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