

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

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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

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, and the all-dielectric cable construction requires no grounding or bonding.

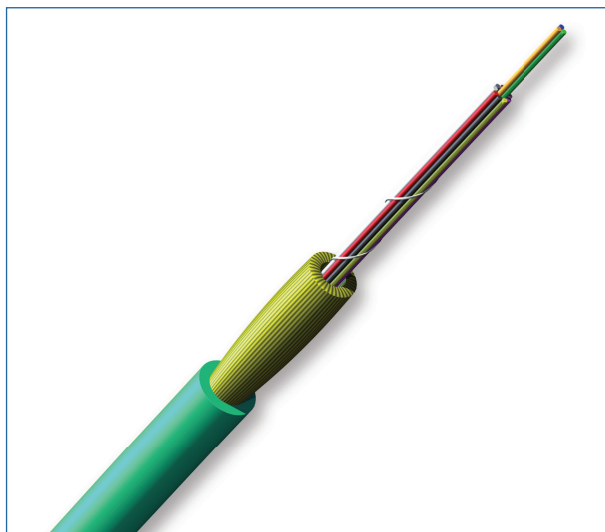
Standards

Approvals and Listings

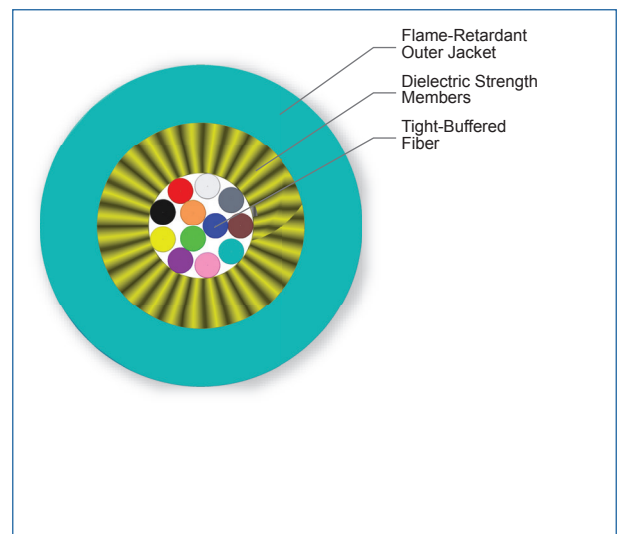
National Electrical Code[®]
(NEC[®]) OFNP, CSA FT-6,
ICEA S-83-596

Flame Resistance

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



MIC 250 Interconnect Cables, 12 Fibers
| Photo PIM2470



MIC 250 Interconnect Cables, 12 Fibers
| Photo PIMtbd

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Specifications

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)

** Note: Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.*

Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Weight	Min. Bend Radius Installation	Min. Bend Radius Operation
12	3.0 mm (0.11 in)	7.5 kg/km (5.0 lb/1000 ft)	50 mm (1.97 in)	30 mm (1.18 in)

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

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Transmission Performance

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-	5350/-

Fiber Type	Single-mode	
Fiber Core Diameter (μm)	8.2	
Fiber Category	OS2	
Fiber Code	E	
Performance Option Code	31	
Wavelengths (nm)	1310/1383/1550	
Maximum Attenuation (dB/km)	0.65/0.65/0.5	
Serial 1 Gigabit Ethernet (m)	5000/-/-	
Serial 10 Gigabit Ethernet (m)	10000/-/40000	

* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

* 50 μm multimode fiber (OM3/OM4/OM4+) meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium EDGE® systems solutions.

* 50 μm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.

Notes: 1) Improved attenuation and bandwidth options available.

2) Bend-insensitive single-mode fibers available on request.

3) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

4) Contact a Corning Customer Care Representative for additional information.

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Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.

0	1	2		D	8	-	3	1	2			-	2	0
1	2	3	4	5	6	7	8	9	10					

1 Defines fiber count.
12 = 12 fibers (standard)

2 Select fiber code.
K = 62.5 µm multimode (OM1)
T = 50 µm multimode,
(OM2/OM3/OM4/OM4+)
E = Single-mode (OS2)
SMF-28e+®
H = ClearCurve® XB
Single-mode (OS2)

3 Defines cable type.
D = P-Link MIC® Cable

4 Defines outer jacket.
8 = Standard for plenum

5 Defines fiber placement.
3 = Standard

6 Defines length markings.
1 = Markings in ft (standard)

7 Defines subunit size.
2 = 3.0 mm diameter

8 Select performance option code.
30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
90 = 50 µm multimode (OM4)
91 = 50 µm multimode (OM4+)
31 = Single-mode (OS2)
(Max. attenuation .65 / .65 / 0.5 dB/km)

9 Defines cable type.
- = P-Link MIC® Cable

10 Defines special manufacturing code.
20 = No special requirements

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.

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

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