

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



Features and Benefits

Color-coded fibers

Quick and easy identification

12-fiber groupings

Compatibility with multifiber connectors

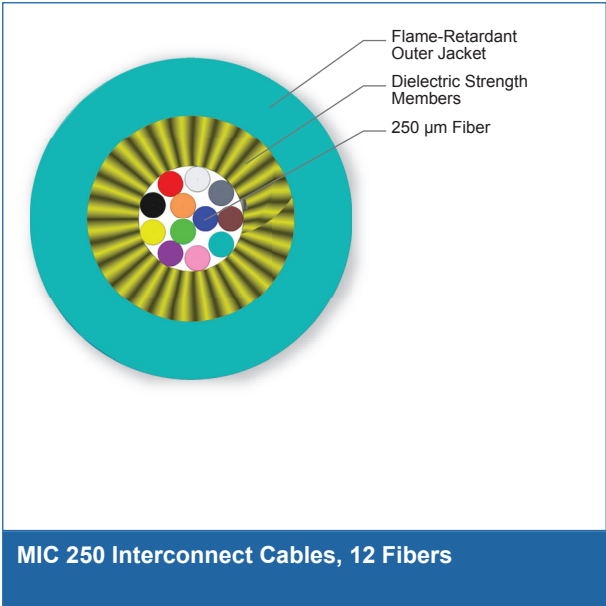
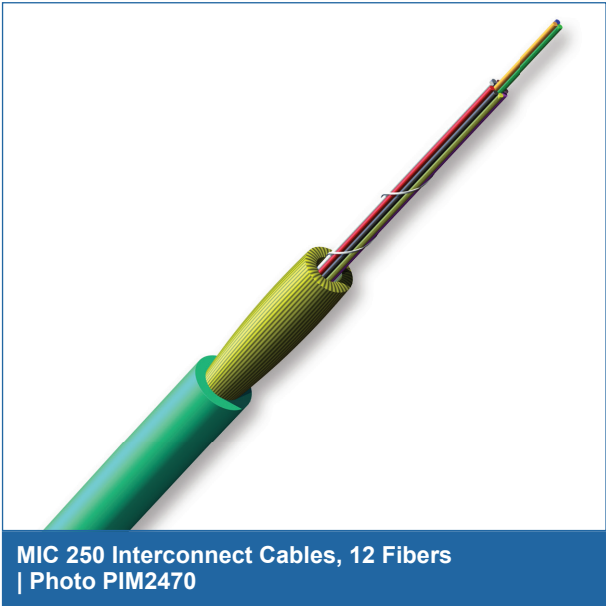
All-dielectric construction

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. The core is protected by a flexible, spirally-wrapped, aluminum interlocking armor that offers easy, one-step installation.

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)



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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)	45 mm (1.77 in)	30 mm (1.18 in)

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

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/-

* 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™/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.

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Single-mode		
Fiber Name	Single-mode (OS2)	SMF-28® Ultra fiber
Fiber Category	G.652.D	G.657.A1
Fiber Code	E	Z
Performance Option Code	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3
Typical Attenuation* (dB/km)	-	0.33/0.33/0.19

* Improved attenuation and bandwidth options available.

* Bend-insensitive single-mode fibers available on request.

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

* Contact Corning Customer Care Representative for additional information.

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

0	1	2		D	8	-	3		2			-		
	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+®
Z = Single-mode (OS2)
SMF-28® Ultra fiber

3 Defines cable type.
D = MIC® 250 cable

4 Defines outer jacket.
8 = Standard for plenum

5 Defines fiber placement.
3 = Standard

6 Select length markings.
1 = Markings in ft (standard)
2 = Markings in m
5 = Markings in ft with colored jacket
6 = Markings in m with colored jacket

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+)
01 = Single-mode (OS2)
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable type.
- = MIC® 250 cable

10 Select special manufacturing needs and color code.
20 = Standard
* * = See color selections below

* * Color Codes for Selection 10

AQ = Aqua
RD = Red

BR = Brown
SL = Slate

GR = Green
BL = Blue

BK = Black
VI = Violet

OR = Orange
WH = White

RS = Rose
YL = Yellow

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.

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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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Notes

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