

# MIC<sup>®</sup> 250 Cables, 12- and 24-Fiber

A LANscape<sup>®</sup>  
Solutions Product

## features and benefits |

<b>Color-coded fibers</b>	Quick and easy identification
<b>12-fiber groupings</b>	Compatibility with multi-fiber connectors
<b>All-dielectric cable construction</b>	Requires no grounding or bonding

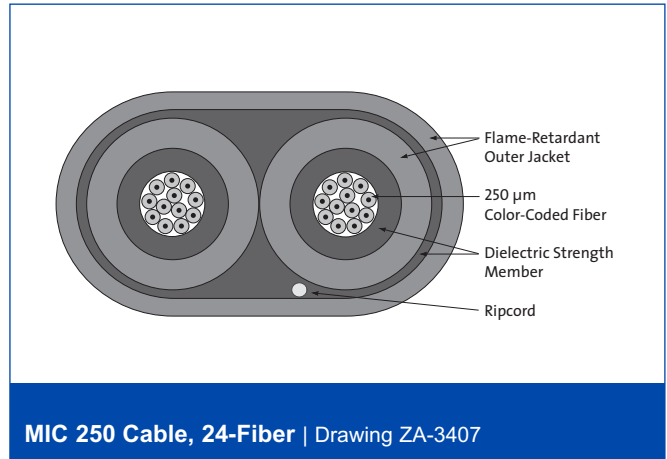
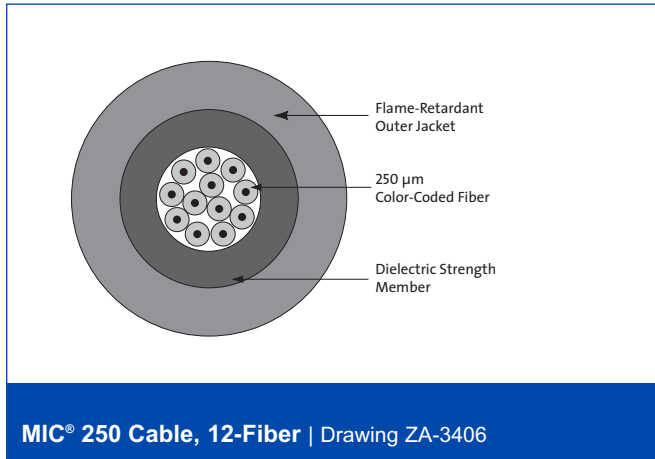
Corning Cable Systems MIC<sup>®</sup> 250 Cables utilize 250  $\mu\text{m}$  color-coded optical fibers, surrounded by dielectric strength members with a flexible, flame-retardant outer jacket. These cables are ideal for creating multi-fiber preconnectorized assemblies as the 12-fiber groupings enable efficient compatibility with multi-fiber 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. They are available in 62.5  $\mu\text{m}$ , 50  $\mu\text{m}$  and single-mode versions, including Gigabit Ethernet and 10 Gigabit Ethernet performance.

The MIC 250 Cables meet the application requirements of the National Electrical Code<sup>®</sup> (NEC<sup>®</sup> Article 770) and are OFNP and FT-6 listed for plenum, riser or general purpose applications. These cables are also available with interlocking armor for special applications requiring additional mechanical durability.



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## specifications |

<b>Temperatures</b>	Storage:	-40° to +70°C (-40° to +158°F)
	Installation:	0° to +60°C (+32° to +140°F)
	Operation:	0° to +70°C (+32° to +158°F)

**Approvals and Listings** National Electrical Code<sup>®</sup> (NEC<sup>®</sup>) OFNP, CSA FT-6, ICEA S-83-596

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

*Corning Cable Systems 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.*

Fiber Count	Nominal Outside Diameter mm (in)	Nominal Cable Weight kg/km (lb/1000 ft)	Maximum Tensile Loads		Minimum Bend Radius		
			Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed – cm (in) Single-Mode    Multimode	
12	4.4 (0.17)	20.3 (13.6)	440 (100)	132 (30)	6.6 (2.6)	4.4 (1.7)	2.2 (0.9)
24	8.3 (0.33)	45.3 (30.4)	660 (150)	200 (45)	12.5 (4.9)	8.3 (3.3)	4.2 (1.7)

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## transmission performance |

	LANscape <sup>®</sup> 62.5 Solutions	LANscape Pretium <sup>®</sup> 150 Solutions	LANscape Pretium 300 Solutions	LANscape Pretium 550 Solutions	LANscape Pretium 600 Solutions	Single-Mode
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	01
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode****
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3***	OM4***	OM4***	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.4/0.3
Minimum Over Filled 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**/ -	- / - / -
Serial 1 Gigabit Ethernet Distance (m)	300/550	750/600	1000/600	1100/600	1100/600	5000 / - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	150/ -	300/ -	550/ -	600/ -	10000/ - /40000

\* Assumes 1.0 dB maximum total connector/splice loss.

\*\* Assumes 0.7 dB maximum total connector/splice loss.

\*\*\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™ Systems solutions.

\*\*\*\* ITU 652.D compliant.

### Notes:

- 1) Improved attenuation and bandwidth options available.
- 2) Bend-insensitive single-mode fibers available on request.
- 3) Contact a Corning Cable Systems Customer Service Representative for additional information.
- 4) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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ordering information | Contact Customer Service at 800-743-2671 for other options.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>D</b>	<b>8</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>-</b>	<b>2</b>	<b>0</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

**|1-3**  
Select fiber count.  
Standard offerings:  
012  
024

**|4**  
Select fiber code  
(see Transmission  
Performance table).

**|5 / 12**  
Defines cable type.  
D / - = MIC<sup>®</sup> 250 Cable

**|6**  
Defines outer jacket.  
8 = Standard for plenum

**|7**  
Defines fiber placement.  
3 = Standard

**|8**  
Defines length markings.  
1 = Markings in feet  
(standard)

**|9**  
Defines subunit size.  
3 = Distribution configuration

**|10-11**  
Select performance  
option code  
(see Transmission  
Performance table).

**|13-14**  
Defines special  
manufacturing code.  
20 = No special  
requirements

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