MIC® 250 Distribution Cables, 12-144 Fibers

Features and Benefits

Color-coded fibers
Quick and easy identification

12-fiber groupings
Compatibility with multifiber connectors

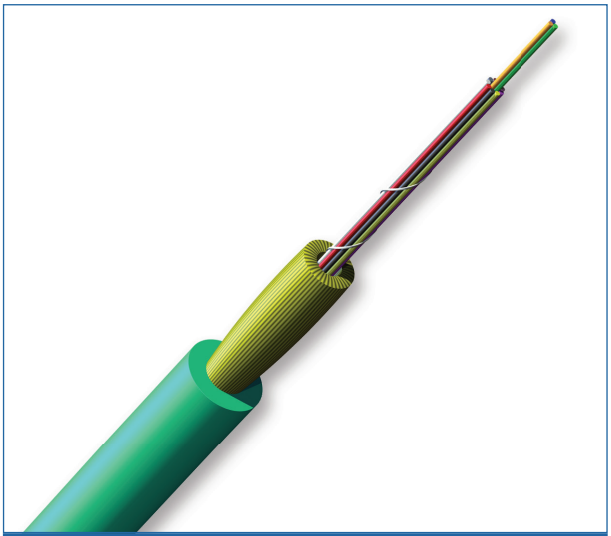
All-dielectric cable construction
Requires no grounding or bonding

Standards

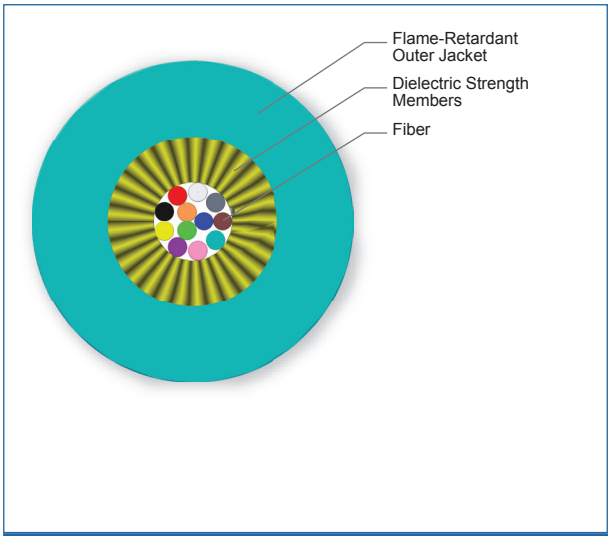
Listings	National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

Corning 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.

Note: 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 while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



MIC 250 Distribution Cables, 12 Fibers



MIC 250 Distribution Cables, 12 Fibers

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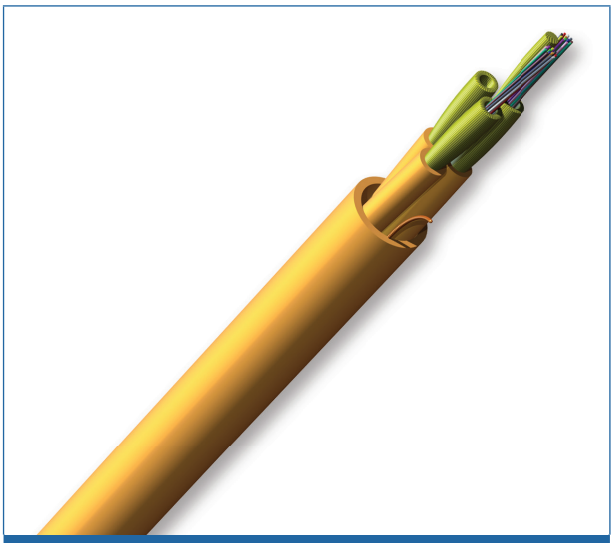
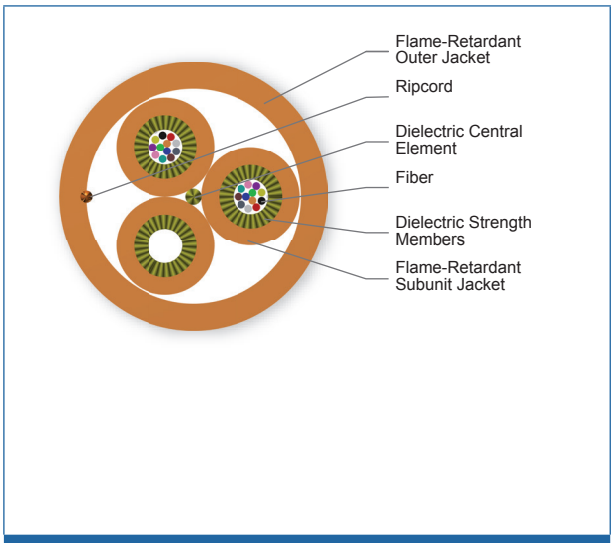


MIC 250 Distribution Cables, 24 Fibers



MIC 250 Distribution Cables, 24 Fibers

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	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
12	4.4 mm (0.17 in)	66 mm (2.6 in)	22 mm (0.9 in)	20.1 kg/km (13.5 lb/1000 ft)
24 - 36	9.0 mm (0.35 in)	135 mm (5.3 in)	90 mm (3.5 in)	70 kg/km (47.04 lb/1000 ft)
48	10.0 mm (0.40 in)	150 mm (5.9 in)	100 mm (3.9 in)	88.6 kg/km (59.5 lb/1000 ft)
72	12.0 mm (0.48 in)	180 mm (7.1 in)	120 mm (4.7 in)	132 kg/km (88.7 lb/1000 ft)

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Mechanical Characteristics Cable				
Fiber Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
96	14.2 mm (0.56 in)	213 mm (8.4 in)	142 mm (5.6 in)	190.1 kg/km (127.9 lb/1000 ft)
144	15.8 mm (0.62 in)	237 mm (9.3 in)	158 mm (6.2 in)	214.4 kg/km (144.3 lb/1000 ft)

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/-

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

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Single-mode			
Fiber Name	Single-mode (OS2)	ClearCurve® ZBL	SMF-28® Ultra fiber
Fiber Category	G.652.D	G.657.B3/G.652.D	G.657.A1
Fiber Code	E	U	Z
Performance Option Code	01	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3	0.4/0.4/0.3
Typical Attenuation* (dB/km)	-	0.35/0.35/0.20	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.*

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

1 Select fiber count.
Standard offerings:
012 036 072 144
024 048 096

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
U = Single-mode (OS2) ClearCurve® ZBL

3 Defines cable type.
D = MIC® 250 Cable

4 Defines outer jacket.
8 = Standard for plenum

5 Select fiber placement.
3 = 12- and 24-fiber cable, oval (12 fibers/subunit)
T = 24, 36, 48, 72, 96 and 144 fiber cable, stranded design (12 fibers/subunit)

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

7 Defines subunit size.
3 = Distribution configuration

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 Defines special manufacturing code.
20 = No special requirements

Note: 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 while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

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Notes

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