MIC® 250 2.0 Cable

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Features and Benefits

Color-coded fibers
Quick and easy identification

Small design
Alternative to traditional indoor cables when smaller diameter required

All-dielectric cable construction
Requires no grounding or bonding

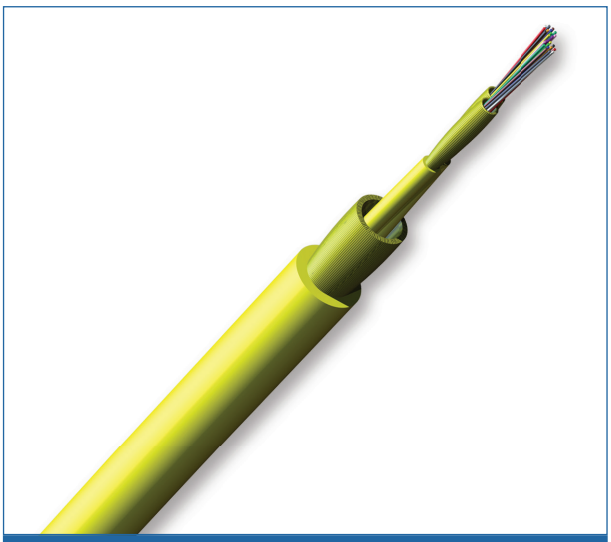
Compatible with CCH pigtailed cassettes
Ideal for splicing 250 µm to 250 µm fibers

Standards

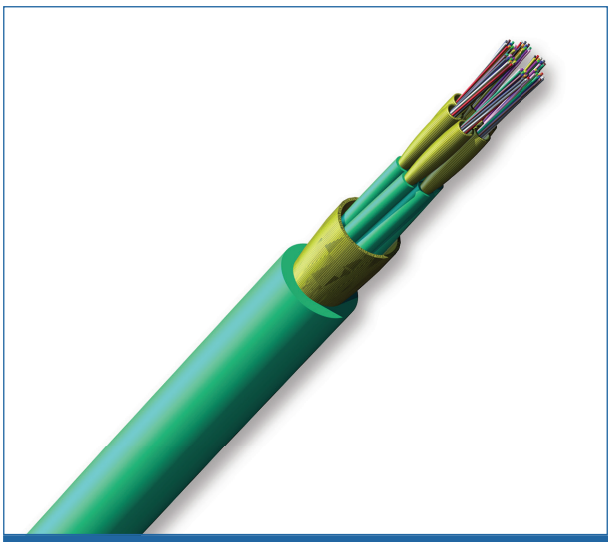
Approvals and Listings	National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

Corning MIC® 250 2.0 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 splicing 250 µm to 250 µm fibers. The small design allows for the cable to be used as an alternative to traditional indoor cable when a smaller diameter is required. 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.

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.



MIC 250 2.0 Cable, 24-Fibers



MIC 250 2.0 Cable, 72-Fibers

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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.*

Fiber Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight	Subunit Diameter
12	5.5 mm (0.21 in)	82.5 mm (3.34 in)	27.5 mm (1.08 in)	31.9 kg/km (21.4 lb/1000 ft)	2.0 mm (0.08 in)
24	7.70 mm (0.30 in)	115.5 mm (4.54 in)	38.5 mm (1.52 in)	50.2 kg/km (33.7 lb/1000 ft)	2.0 mm (0.08 in)
36	8.0 mm (0.31 in)	120 mm (4.72 in)	40 mm (1.58 in)	55.7 kg/km (37.4 lb/1000 ft)	2.0 mm (0.08 in)
48	8.50 mm (0.33 in)	127.5 mm (5.02 in)	42.5 mm (1.67 in)	62.6 kg/km (42.1 lb/1000 ft)	2.0 mm (0.08 in)
60	9.80 mm (0.39 in)	147 mm (5.79 in)	49 mm (1.93 in)	84.0 kg/km (56.4 lb/1000 ft)	2.0 mm (0.08 in)
72	10.5 mm (0.41 in)	157.5 mm (6.20 in)	52.5 mm (2.07 in)	93.0 kg/km (62.5 lb/1000 ft)	2.0 mm (0.08 in)
96	11.9 mm (0.46 in)	178.5 mm (7.03 in)	59.5 mm (2.34 in)	110.9 kg/km (74.5 lb/1000 ft)	2.0 mm (0.08 in)
144	12.5 mm (0.49 in)	187.5 mm (7.38 in)	62.5 mm (2.46 in)	130.3 kg/km (87.5 lb/1000 ft)	2.0 mm (0.08 in)

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

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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/-

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

Notes: 1) *Improved attenuation and bandwidth options available.*
2) *Bend-insensitive single-mode fibers available on request.*
3) *Contact a Corning Customer Care 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.*

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

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

□	□	□	□	D	9	-	T	1	3	□	□	-	M	2
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+)
Z = Single-mode (OS2) SMF-28® Ultra fiber

3 Defines cable type.
D = MIC® 250 2.0 Cable

4 Defines outer jacket.
9 = Standard for plenum

5 Defines fiber placement.
T = Standard 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.
- = Gel-free cable

10 Defines special manufacturing code.
M2 = No special requirements

RoHS COMPLIANT

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 United States
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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