

MIC® 250 Interconnect Cable, 3.0 mm, Plenum

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

Features and Benefits

Color-coded fibers

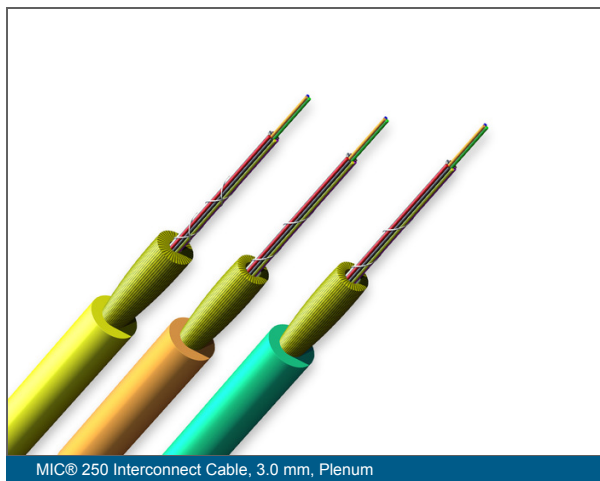
Quick and easy identification

12-fibre groupings

Compatibility with multifibre connectors

All-dielectric construction

Requires no grounding or bonding



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Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Specifications

General Specifications	
Environment	Indoor
Product Type	Interconnect
Cable Type	Loose Tube
Flame Rating	Plenum (OFNP)

Temperature Range	
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Installation	0 °C - 60 °C (32 °F - 140 °F)
Temperature Range, Operation	0 °C - 70 °C (32 °F - 158 °F)

Design Characteristics Cable	
Fiber Count	Fibers per Subunit
12	12

Mechanical Characteristics Cable						
Fiber Count	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Cable Weight
12	3 mm (0.12 in)	45 mm (1.77 in)	30 mm (1.18 in)	220 N (49.46 lbf)	73 N (16.41 lbf)	7.5 kg/km (5.04 lb/1000 ft)

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Transmission Performance

Multimode

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

Transmission Performance

Single-mode

Fiber Name	Single-mode (OS2)
Performance Option Code	01
Fiber Category	OS2
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Code	E
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

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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	BR = Brown	GR = Green	BK = Black	OR = Orange	RS = Rose
RD = Red	SL = Slate	BL = Blue	VI = Violet	WH = White	YL = Yellow



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