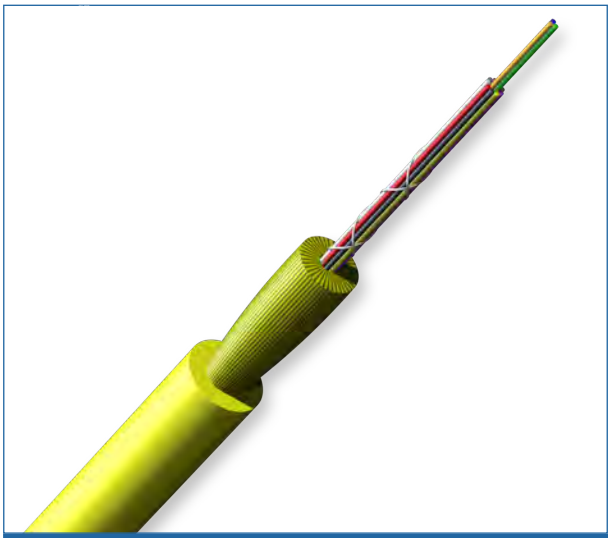
MIC® 250 Interconnect Cable, Plenum

12 F, Single-mode (OS2)

CORNING

Corning Cable Systems 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 and the all-dielectric cable construction requires no grounding or bonding. The MIC 250 Cables meet the application requirements of the National Electrical Code® (NEC Article 770) and are OFNP and FT-6 listed for plenum, riser or general purpose applications.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, 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.



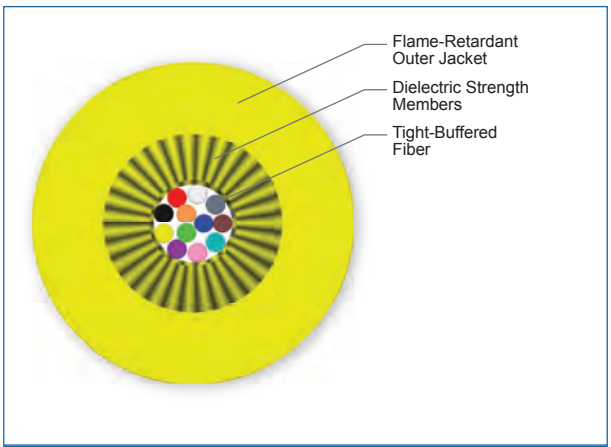
Part Number: 012ED8-31131-20

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



Cross Section of Part Number: 012ED8-31131-20

Standards

Approval 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)

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Loose Tube
Product Type	Interconnect
Flame Rating	Plenum (OFNP)
Fiber Category	Single-mode (OS2)

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)

Cable Design	
Fiber Count	12
Fibers per Subunit	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

Mechanical Characteristics Cable	
Weight	10.0 kg/km (6.7 lb/1000 ft)
Nominal Outer Diameter	3.3 mm (0.13 in)
Max. Tensile Strengths, Short-Term	220 N (50 lbf)
Max. Tensile Strengths, Long-Term	73 N (16 lbf)
Min. Bend Radius Installation	50 mm (2.0 in)
Min. Bend Radius Operation	17 mm (0.7 in)

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Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/EG

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Single-mode
Fiber Core Diameter	9 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / .5 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

* ITU-T G.652 D compliant.
* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

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

Ordering Information

Part Number	012ED8-31131-20
Product Description	MIC® 250 Interconnect Cable, Plenum, 12 F, Single-mode (OS2)

RoHS COMPLIANT

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