

# MIC® 250 Distribution Cable, Plenum

24 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.



## Features and Benefits

### Color-coded fibers

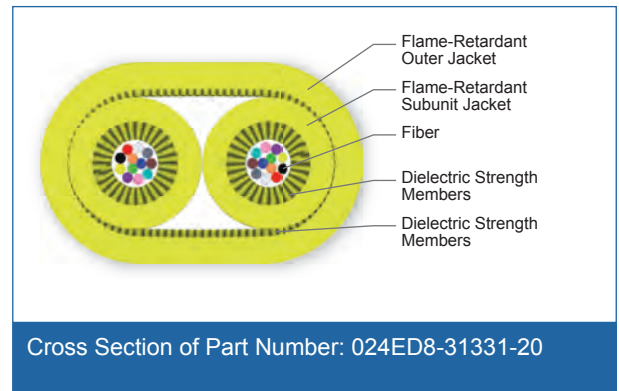
Quick and easy identification

### 12-fiber groupings

Compatibility with multifiber connectors

### All-dielectric construction

Requires no grounding or bonding



## 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 appli-  
cations)

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## Specifications

### General Specifications

|                |                                                    |
|----------------|----------------------------------------------------|
| Environment    | Indoor                                             |
| Application    | General Purpose Horizontal, Vertical Riser, Plenum |
| Cable Type     | Loose Tube                                         |
| Product Type   | Distribution                                       |
| 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

|                                                     |                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------|
| Central Element                                     | Yarn                                                                             |
| Fiber Count                                         | 24                                                                               |
| 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                                                      |
| Subunit Jacket Material                             | Flame-retardant                                                                  |
| Subunit Color                                       | Aqua                                                                             |
| Number of Subunits                                  | 2                                                                                |
| Number of Ripcords                                  | 1                                                                                |
| Outer Jacket Material                               | Flame-retardant                                                                  |
| Outer Jacket Color                                  | Aqua                                                                             |

### Mechanical Characteristics Cable

|                                    |                               |
|------------------------------------|-------------------------------|
| Weight                             | 43.4 kg/km (29.2 lb/1000 ft)  |
| Nominal Dimensions Oval            | 8 mm x 5 mm (0.3 in x 0.2 in) |
| Max. Tensile Strengths, Short-Term | 660 N (150 lbf)               |
| Max. Tensile Strengths, Long-Term  | 200 N (45 lbf)                |

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## Mechanical Characteristics Cable

|                               |                 |
|-------------------------------|-----------------|
| Min. Bend Radius Installation | 120 mm (4.7 in) |
| Min. Bend Radius Operation    | 40 mm (1.6 in)  |

## 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         | 024ED8-31331-20                                              |
| Product Description | MIC® 250 Distribution Cable, Plenum, 24 F, Single-mode (OS2) |

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# MIC<sup>®</sup> 250 Distribution Cable, Plenum

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The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

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## Notes



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