

MIC® Loose Tube Plenum Cables 144 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Part Number:
144ZD9-T1301-M2

Corning MIC® Loose Tube Plenum 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.

Features and Benefits

Color-coded fibers

Quick and easy identification

Small design

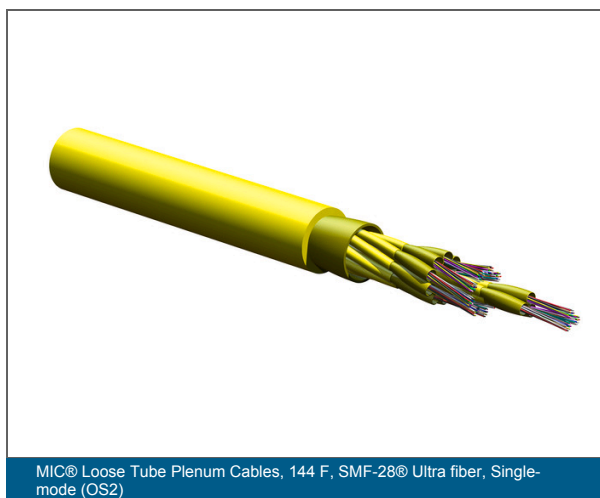
Alternative to traditional indoor cables when smaller diameter required

All-dielectric construction

Requires no grounding or bonding

Compatible with CCH pigtailed cassettes

Ideal for splicing 250 µm to 250 µm fibers



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Specifications

General Specifications

Cable Type	Loose Tube
Environment	Indoor
Product Type	Distribution
Fiber Category	SMF-28® Ultra
Application	General purpose, Horizontal, Plenum, Vertical Riser
Cable geometry	Round

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Design and Test Criteria	ANSI/ICEA S-83-596

Environmental Conditions

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

Cable Design

Central Element	Dielectric
Fiber Count	144
Outer Jacket Color	Yellow
Outer Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Buffer Tube Diameter	2 mm (0.08 in)
Number of Active Tubes	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua

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Cable Design

Fibers per Tube	12
Color Code Standards	Telcordia

Mechanical Specifications

Max. Tensile Strength, Short-Term	660 N (148.37 lbf)
Min. Bend Radius Installation	153 mm (6.02 in)
Min. Bend Radius Operation	102 mm (4.02 in)
Nominal Outer Diameter	10.2 mm (0.4 in)

Optical Characteristics

Fiber Code	Z
Fiber Name	Bend-Improved Single-mode (OS2)
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Performance Option Code	01
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	OS2

Dimensions

Cable Weight	91 kg/km (61.15 lb/1000 ft)
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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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