

CORNING

*Multimode
Specialty Optical
Fiber for Short
Distance Networks*



Inquire for information about the application of mid-temperature coatings on glasses with optical properties that match your application or custom need.

NEW!

Corning® ClearCurve® Multimode Mid-Temperature Specialty Optical Fibers for Short Distance Networks

Corning® ClearCurve® Multimode Specialty Optical Fiber for short distance networks is the newest addition to the Corning Specialty Fiber family. This fiber utilizes Corning® ClearCurve® technology to create a perfect fiber for industrial applications that contain tight bends and a need for align-able fibers that withstand elevated temperatures.

Applications:

- Aerospace and Defense
- Automotive
- Avionics
- Distributed Fiber Sensors

Features:

- Low bend loss for applications that require tight bending
- Relaxed packaging alignment tolerances through high numerical aperture (0.29 NA) and a large core size of 80 μm
- Optimized for use with VCSEL technology
- Rated for use up to 180 °C
- Acrylate based coating for ease of handling
- Multimode fiber is made with a graded index refractive index profile for increased performance
- Hermetic coating (optional) for protection against hydrogen induced attenuation increase and improved fatigue resistance

MM8oBIA-C

Key Optical Specifications

Operating Wavelength (nm)	850
Maximum Attenuation (dB/km)	≤ 3.5 @ 850 nm
Numerical Aperture	0.29 ± 0.015
Bandwidth (MHz/km)	≥ 300

Key Geometric, Mechanical and Environmental Specifications

Core Diameter (μm)	80 ± 4.0
Cladding Outside Diameter (μm)	125 ± 2.0
Coating Outside Diameter (μm)	200* ± 10 or 245 ± 10
Core-to-Cladding Offset (μm)	≤ 1.5
Proof Test (kpsi)	100
Operating Temperature (°C)	-60 to 150 or 180
Coating	Mid-Temperature Acrylate Optional Hermetic Layer

* Available for 150° C only

Performance Characteristics (values in this table are nominal or calculated)

MacroBend Loss @ 850 nm (5 mm radius; 1 turn)	
Typical induced attenuation ¹ (dB)	≤ 0.1
Typical induced attenuation ² (dB)	≤ 0.2

1 Measured using 50 μm encircled flux launch, representative of typical consumer grade VCSEL transceiver launch condition.

2 Measured using 62.5 μm encircled flux launch, representative of worst case consumer grade VCSEL transceiver launch condition.

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Multimode 80 μm Bend insensitive Optical Fiber with:

	Category	Definition	Product Code
A	Hermetic Indicator	Non-Hermetic	(blank)
		Hermetic	H
C	Mid-temperature Acrylate Coating Type	150 °C	MT
		180 °C	XMT

For more information about Corning's leadership in Specialty Fiber technology visit our website at www.corning.com/specialtyfiber

To obtain additional technical information, an engineering sample or to place an order for this product, please contact us at:

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