

# Corning® InfiniCor® 300 Optical Fiber

## Product Information

CORNING

Bandwidth demands are growing rapidly in today's enterprise networks. Corning's InfiniCor® optical fiber, the world's first laser-optimized™ 62.5 µm multimode fiber, will help you stay ahead of escalating network demands. Established on superior measurement technology and manufacturing control, InfiniCor fiber also provides full compatibility with legacy protocols and applications.

### Standards Compliance\*

ISO/IEC 11801	Type OM1 fiber
IEC 60793-2-10	Type A1-OM1 fiber
TIA/EIA	492AAAA-A

\*Meets or exceeds standards requirements for the fiber specifications listed.

### Optimized Data Rate over Distance

1 GB/s over 300 m at 850 nm	1 GB/s over 550 m at 1300 nm
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## Optical Specifications

### Bandwidth

Overfilled Modal Bandwidth* (MHz•km)	
850 nm	1300 nm
200	500

\*OFL BW, per TIA/EIA 455-204 and IEC 60793-1-41.

### Numerical Aperture

0.275 ± 0.015

### Attenuation

Wavelength (nm)	Maximum Value (dB/km)
850	≤ 2.9
1300	≤ 0.6

No point discontinuity greater than 0.2 dB. Attenuation at 1380 nm does not exceed the attenuation at 1300 nm by more than 1.0 dB/km.

Induced attenuation from 100 turns around a 75 mm mandrel shall be ≤ 0.5 dB at 850 nm and 1300 nm.

## Dimensional Specifications

### Glass Geometry

Core Diameter	62.5 ± 2.5 µm
Cladding Diameter	125.0 ± 2.0 µm
Core-Clad Concentricity	≤ 1.5 µm
Cladding Non-Circularity	≤ 1.0%
Core Non-Circularity	≤ 5%

### Coating Geometry

Coating Diameter	242 ± 5 µm
Coating-Cladding Concentricity	< 12 µm



## Environmental Specifications

Environmental Test	Test Condition	Induced Attenuation 850 nm and 1300 nm (dB/km)
Temperature Dependence	-60°C to +85°C*	≤ 0.10
Temperature Humidity Cycling	-10°C to +85°C and up to 98% RH	≤ 0.10
Water Immersion	23°C ± 2°C	≤ 0.20
Heat Aging	85°C ± 2°C	≤ 0.20
Damp Heat	85°C at 85% RH	≤ 0.20

Operating Temperature Range: -60°C to +85°C

\*Reference temperature = +23°C

## Mechanical Specifications

### Proof Test

The entire fiber length is subjected to a tensile stress ≥ 100 kpsi (0.69 GPa). Higher proof test levels are available.

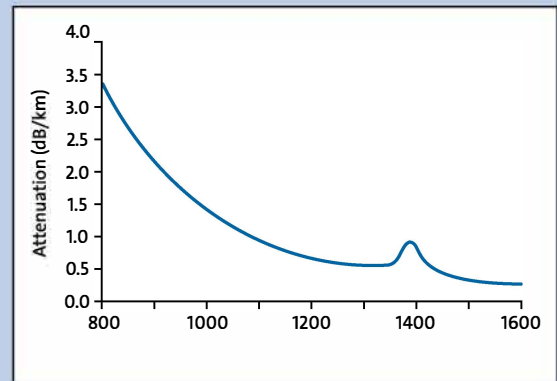
### Length

Fiber lengths available up to 17.6 km/spool.

## Performance Characterizations

Characterized parameters are typical values.

Refractive Index Difference	2%
Effective Group Index of Refraction ( $n_{eff}$ )*	850 nm: 1.496 1300 nm: 1.491
* $n_{eff}$ was empirically derived to the third decimal place using a specific commercially available OTDR.	
Fatigue Resistance Parameter ( $n_d$ )	20
Coating Strip Force	Dry: 0.6 lbs. (2.7 N) Wet: 14 days in 23°C water soak: 0.6 lbs. (2.7 N)
Rayleigh Backscatter Coefficient (for 1 ns Pulse Width)	850 nm: -68 dB 1300 nm: -76 dB
Chromatic Dispersion	
Zero Dispersion Wavelength ( $\lambda_0$ ):	1332 nm ≤ $\lambda_0$ ≤ 1354 nm
Zero Dispersion Slope ( $S_0$ ):	≤ 0.097 ps/(nm <sup>2</sup> •km)
Spectral Attenuation (Typical Fiber)	



Purchase at

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