

## OptiLink P500 Optical Fiber 50 µm, Multimode

### Optical Characteristics, Wavelength Specific

nm	850 m	1,300
Max. Attenuation, Loose Tube Cable	2.5 dB/km	0.8 dB/km
Max. Attenuation, Tight Buffer Cable	3.0 dB/km	1.0 dB/km
Bandwidth, OFL	500 MHz-m	500MHz-km
Group Refractive Index	1.490	1.486
1 Gb Ethernet Distance	600 m	600 m

### Optical Characteristics, General

Numerical Aperature	0.200 ± 0.015
Point Defects, Max	0.20 dB
Zero Dispersion Wavelength	1,300 ≤ 1,320 nm
Zero Dispersion Slope	≤ 0.101 ps/nm <sup>2</sup> ·km

### Physical Characteristics

Core Diameter	50.0 ± 3.0 µm
Cladding Diameter	125.0 ± 2.0 µm
Core/Clad Offset	≤ 3.0 µm
Coating Diameter (Uncoloured)	245 ± 5 µm
Coating Diameter (Coloured)	254 ± 7 µm
Coating/Cladding Concentricity Error, Max.	≤ 12 µm
Clad Non-Circularity	≤ 1%

### Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	2.7 N
Dynamic Fatigue Parameter(nd)	≤ 18
Macrobending, Max. (100 turns@ 75 mm mandrel)	0.50 db max. @ 850 nm) and 1.300nm

### Environmental Characteristics

Temperature Dependence	
76°F to 185°F (-60°C to 85°C)	≤ 0.20 dB
Temperature Humidity Cycling	
14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.20 dB
Water Immersion, 73.4°F (23°C)	≤ 0.20 dB
Heat Ageing, 185°F (85°C)	≤ 0.20 dB

### Corning's Fiber Type

Infini Cor 300
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### Qualifications and Approvals

- Qualifies as per EIA/TIP 568 B
- Qualifies as OM2 as per ISO/IEC 11801

## OptiLink P500 Optical Fiber 62.5 μm, Multimode

### Optical Characteristics, Wavelength Specific

nm	850 m	1,300
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.4 dB/km	1.0dB/km
Bandwidth, OFL	200 MHz-m	500MHz-km
Group Refractive Index	1.496	1.491
1 Gb Ethernet Distance	3000 m	550 m

### Optical Characteristics, General

Numerical Aperature	0.275 0.015
Point Defects, Max	0.15 dB
Zero Dispersion Wavelength	1,320 1,365 nm
Zero Dispersion Slope	0.097 ps/[km-nm-nm]

### Physical Characteristics

Core Diameter	62.5 ± 2.5 μm
Cladding Diameter	125.0 ± 1.0 μm
Core/Clad Offset	≤1.5 μm
Coating Diameter (Uncoloured)	245 ± 10 μm
Coating Diameter (Coloured)	254 ± 7 μm
Coating/Cladding Concentricity Error, Max.	6 μm
Clad Non-Circularity	≤1%

### Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter(nd)	≤18
Macrobending, Max. (100 turns@ 75 mm mandrel)	0.50 db max. @ 850 nm) and 1.300nm

### Environmental Characteristics

Temperature Dependence -	
76°F to 185°F (-60°C to 85°C)	≤0.20 dB
Temperature Humidity Cycling	
14°F to 185°F (-10°C to 85°C) up to 95% RH	≤0.20 dB
Water Immersion, 73.4°F (23°C)	≤0.20 dB
Heat Ageing, 185°F (85°C)	≤0.20 dB

### Corning's Fiber Type

Infini Cor 300
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### Qualifications and Approvals

- Qualifies as per EIA/TIP 568 B
- Qualifies as OM2 as per ISO/IEC 11801

## OptiLink P800 Optical Fiber 50 µm, Multimode

### Optical Characteristics, Wavelength Specific

Optical Characteristics, Wavelength Specific	850 nm	1,300 nm
Optical Characteristics, Wavelength Specific	850	1,300
Max. Attenuation, Loose tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight buffer Cable	3.0 dB/km	550 MHz-km
Bandwidth, OFL	550: 3,500 MHz-km	550 MHz-km
	300: 1,500 MHz-km	550 MHz-km
	150: 950 MHz-km	550 MHz-km
Bandwidth, Laser	550: 47,00MHz-km	550 MHz-km
	300: 2,000MHz-km	550 MHz-km
	150: 950 MHz-km	550 MHz-km
Differential Mode Delay	550: Exceeds	0.88ps/m
	TIA - 492AAAC-A	(IEC-60793-2-10ed2)
	300: Exceeds	0.88ps/m
1 Gbps Ethernet Distance	TIA - 492AAAC-A (IEC-60793-2-10ed2)	
	150: 0.70 ps/m	0.88ps/m
	550: 1,100m600m	
1 Gbps Ethernet Distance	300: 1,000m	600m
	150: 800m	600m
	550: 550m	
1 Gbps Ethernet Distance	300: 300m	
	150: 150m	

### Optical Characteristics, General

Numerical Aperture	0.200 ± 0.015
Point Defects, Max	0.15 dB
Zero Dispersion Wavelength	1297 - 1316 nm
Zero Dispersion Slope	0.105 ps/[km-nm-nm]

### Physical Characteristics

Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Core/Clad Offset	≤ 1.5 µm
Coating Diameter (Uncoloured)	245 ± 10 µm
Coating Diameter (Coloured)	254 ± 7 µm
Coating /Cladding Concentricity Error, max.	6 µm
Clad Non-Circularity	≤ 1%

### Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gps)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≤ 18
Macrobending, max. (100 turns @ 75 mm mandrel)	0.50 db max.@ 850 nm and 1300nm

### Environmental Characteristics

Temperature Dependence - 76°F to 185°F (-60°C to 85°C)	≤ 0.10 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.10 dB
Water Immersion, 7304°F (23°C)	≤ 0.20 dB
Heat Ageing, 185°F (85°C)	≤ 0.20 dB

### Corning's Fiber Type

Infini Cor 5x4

### Qualifications and Approvals

- Qualifies as 'OM3' grade as per ISO/IEC 11080