



A Furukawa Company

Delivery Optical Fiber

50/360, 80/360, 100/360



Features & Benefits

- Low index coating - high cladding NA
- Compatible with standard fiber interconnect systems
- High geometrical symmetry - core/clad concentricity
- High threshold of optical damage - Pure Silica core

Typical Applications

- Beam delivery cables
- Beam combiners
- Multimode diode couplers
- Light collectors for spectroscopy

Product Description

Delivery Optical Fiber is used for efficient containment and transport of high power multimode laser beams generated by e.g. fiber lasers. Our Low index TrueClad™ coating ensures that all power is contained within the fiber, since light leaked from the core will be captured by the high NA cladding waveguide. This facilitates supreme safety and prevents fiber damage due to coating “hot spots”.

The multimode core of this fiber is made of Pure Silica, facilitating low loss, low heating and having high threshold for optical damage. The first cladding layer is highly doped with Fluorine yielding NA of 0.22. The second cladding layer is also Pure Silica. The fiber is coated with a double layer low-index polymer coating, TrueClad, providing cladding NA of more than 0.45.

Product Specifications			
	50/360	80/360	100/360
Optical Properties			
Numerical Aperture	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02
Cladding Numerical Aperture	≥0.45	≥0.45	≥0.45
Attenuation @1100 nm	<10 dB/km	<10 dB/km	<10 dB/km
Dimensions/Geometric Properties			
Coating/cladding Concentricity	<10 μm	<10 μm	<10 μm
Core Diameter	51.0 ± 1.0 μm	81.5 ± 1.5 μm	102.0 ± 2.0 μm
First Cladding Diameter	71.5 ± 1.5 μm	112 ± 4 μm	122 ± 4 μm
Second Cladding Diameter	367 ± 7 μm	367 ± 7 μm	367 ± 7 μm
Coating Diameter	550 ± 15 μm	550 ± 15 μm	550 ± 15 μm
Coating Type	TrueClad Low index	TrueClad Low index	TrueClad Low index
Fiber Geometry	Round	Round	Round
Performance			
Proof Test Level	≥ 100 kpsi	≥ 100 kpsi	≥ 100 kpsi
Ordering Information			
Product Description Code	50-360 Delivery Fiber	80-360 Delivery Fiber	100-360 Delivery Fiber
Order By Item #	83257	82686	83259

Order From Location

+45 43 45 8888
 Priorparken 680, DK-2605
 Broendby, Denmark

www.ofsoptics.com



For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiber-help (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

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