

SCHOTT® Clad Rod and Image Conduit

Light or Image Transfer



Performance Characteristics

Clad Rod and Image Conduit are utilized for light or image transfer. Clad Rods exhibit excellent transmission properties and are ideal for applications requiring light transmission only. They are typically used to isolate or to remotely locate photo sensors and sources of light. Clad glass rods consist of a high index core material fused together with a lower index cladding glass thus providing total internal reflection. Custom lengths and cross sections can be manufactured to customer specifications. Typical applications for Clad Rod include liquid level sensing and pyrometry.

Clad Rods can also be drawn in a hexagonal shape and used as light homogenizers.

Image Conduit is a rigid fiber optic rod designed to transmit a coherent image from one end face to the opposite end face. They are produced with either a 2 step or 3 step draw process which tailors the fiber size to the specific application. Image conduit can be readily bent by heating to conform to a prescribed path with minimal distortion and transmission loss. Typical applications include gyroscopes and optical feedback sensors for night vision systems.

Typical Clad Rod Specifications

Standard Clad Rods - Numerical Aperture 0.56

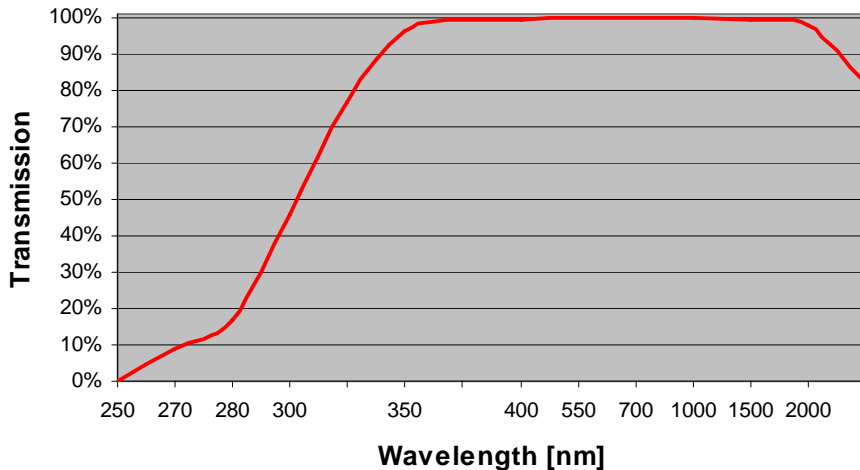
Diameter (mm)	Finished Lengths
1.6	Custom diameters and lengths (up to 2 meters) available - Per customer's request
3.18	
6.35	

Typical Image Conduit Specifications

Standard Image Conduit - Numerical Aperture 0.56

Type	Diameter (mm)	Fiber Size (μm)	Finished Lengths
Low Element Count	1.6	24	Custom diameters and lengths (up to 2 meters) available - Per customer's request
	3.18	50	
	6.35	100	
High Element Count	3.18	12	
	6.35	24	
	12.7	12	

Sample 5 mm core glass



For more information please contact

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