MICA LIGHTING COMPANY, INC.

SUPER BRIGHT SIDE LIGHT FIBER

FIBER OPTIC LIGHTING

Description

Super Bright Side Light Fiber is a unique patented technology allowing for even light distribution at specific fiber lengths ranging from 1 ½ ft. to 7 ft. when using an LED as the light source. Depending on design application and length, the fiber is manufactured at different concentrations of a light dispersion polymer which is uniformly distributed through the optic core.

Specifications

Optical Core Composition: Solid optical gel core made from optically pure case acrylic monomers, including MMA, to ensure flexibility and superior light transmission.

Cladding Composition: The optical core is clad in a sheath of clear Teflon

Bend Radius: Less than 6x fiber diameter

Spool Length: 200, 500 or 1000 ft.

Spectral Range: 370 to 690 nm – visible wavelength

Acceptance Angle: 45°

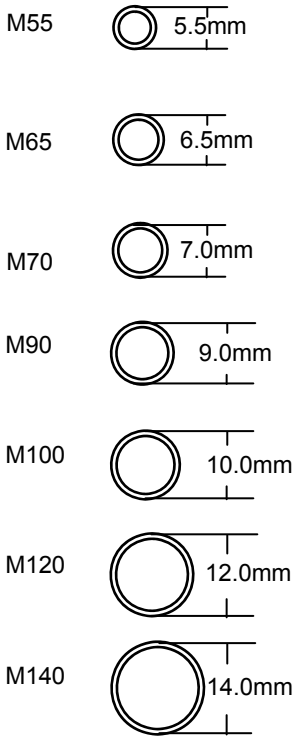
Numeric Aperture: 0.68

Attenuation: Less than 1.6% per foot

Operating Temperature Range: Minimum -49°F (-45°C)
Maximum 248°F (120°C)

Moisture Absorption: Teflon cladding is chemically resistant and impervious to solvents. *Core is affected by strong solvents.*

Catalog No.



Optimal Distance with LED Light Source

SS Concentration (Light Dispersion Polymer)	LED at one end		LED at both ends	
	Feet	Meters	Feet	Meters
SS 80	4	1.2	8	2.4
SS 120	4	1.2	6	2.0
SS 180	3	0.8	5	1.5
SS 400	2	0.6	4	1.2

How to Order:

- Choose fiber diameter that best suits application.
- Select concentration required according to length of fiber.

7mm diameter fiber = M70
Length required = 6 feet with LED at each end
Therefore concentration required = SS120

Ordering Example: M70 SS120

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