

Jacketed Mono Fiber PMMA



END-lit Jacketed mono fiber are single core fibers with protective outer jacket desirable for arduous conditions. Suitable for use in indoor, outdoor and submersible applications.

Optical fiber material : Polymethyl-Methacrylate Resin

Cladding material : Fluorinated Polymer

Jacket (sheathing) material : Black Polyethylene

Core Refractive index : 1.49

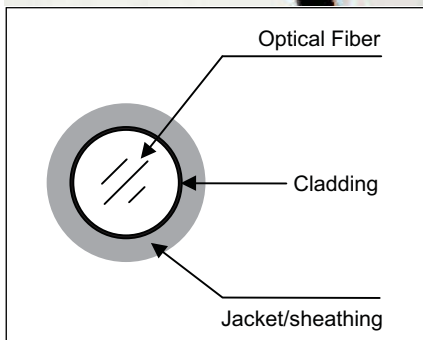
Refractive index profile : step index

Numerical Aperture : 0.5

Transmission loss : 190 dB/km (650nm Collimated light)

Operation temperature range: -55°C to +70°C in low humidity;
<60°C at 95%RH (attenuation change is within 10% after 1000 hours except for that due to absorbed water).

Please note that fibers can become brittle at lower temperatures.



Application

Swimming pools

Water features

Ponds

Fountains

Landscaping

dry, wet, submersible areas

Product Code	fiber active diameter	outer diameter (jacket)	outer diameter tolerance	spool length	minimum bending radius
PM 75 BJ	0.75 mm	2.20 mm	±0.3 mm	1000 m	20 mm
PM 10 BJ	1.00 mm	2.20 mm	±0.3 mm	1000 m	25 mm
PM 15 BJ	1.50 mm	2.80 mm	±0.3 mm	700 m	45 mm
PM 20 BJ	2.00 mm	3.50 mm	±0.4 mm	500 m	65 mm
PM 30 BJ	3.00 mm	4.50 mm	±0.5 mm	150 m	100 mm