

# Polarization Maintaining Fiber Optical Patch Cable

1360nm to 1625nm



These polarization-maintaining fiber optic patch cables are terminated on both ends with high-quality ceramic connectors, featuring polished to reach a return loss > 50 dB. Narrow key FC/PC Each cable is a standard in-stock item. We offer all connector variations as special orders. Each cable is individually tested to ensure the specified extinction ratio and insertion loss at fiber-to-fiber junctions. Each patch cable includes two protective caps that shield the ferrule ends from dust and other hazards. Each cable also comes with a mating connector adaptor for ease of use. We further offer a high optical power handling connector up to 5W with our unique in-fiber beam expanding and collimating technology.

## Features

- In Stock Standard Version
- High Polish with >50dB RL
- Ceramic Radiused Ferrules
- 3mm Protective Jacket
- Custom Cable Available

## Applications

- Test
- Instrument/System

## Specifications <sup>[1]</sup>

Parameter	Min	Typical	Max	Unit
Wavelength	1360		1625	nm
Insertion Loss		0.4	0.5	dB
Extinction Ratio	23		25	dB
Mode Diameter		8.0		µm
Return Loss	50			dB
Power Handling <sup>[1]</sup>		0.3	0.5	W
Fiber Type	PM1550			
Jacket	3mm tube			

[1] Regular fiber end with ferrule. The typical value is a safe condition. Expanding fiber is available for higher power handing as a special order.

## Ordering Information

Prefix	Wavelength	Length	ER	Power	Key Aligned	Fiber	Connector1	Connector2
FPPM-	1550nm = 5	1m = A1 5m = A5 12m = 12 Special = 00	23dB = 1 25dB = 2 Special = 0	Regular = 1 2W = 2 5W = 5 Special = 0	Slow Axis = 1 Fast Axis = 2 Unlocked <sup>[1]</sup> = 3 Special = 0	PM1550 = 5 Special = 0	FC/PC = 1 FC/APC=2 SC/UPC=3 SC/APC=4 LC/UPC=5 LC/APC=6 Special=0	FC/PC = 1 FC/APC=2 SC/UPC=3 SC/APC=4 LC/UPC=5 LC/APC=6 Special=0

[1]. Unlocked means the axis is free rotating

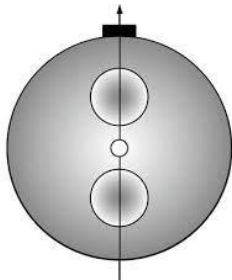
Fiber Cable PM

Red Color indicates special order

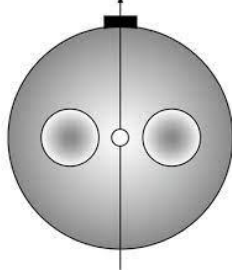
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**Slow Axis Aligned**



**Fast Axis Aligned**



## Schematic of High Power Handling Fiber Connector Configuration

We produce high optical power handling connectors by first expanding the beam size and then collimating the beam all inside the fiber without free space elements and optical coating.

