

PM Fiber Patchcords

Polarization-maintaining (PM) fiber has been developed to maintain the state of polarization of light as it travels through the fiber. This is done with stress applying members within the fiber that create the birefringence. The birefringence defines two orthogonal optical axes, slow and fast axis, through the core where the light travels. Proper alignment to the source and alignment of the fiber within the connector to the connector key is required to maintain this polarization throughout the light path.

Features

Low insertion loss
High return loss
High polarization extinction ratio
Environmental stability and reliability

Applications

Optical amplifiers
Polarization based modulators
High bit rate telecommunications



Specifications

Connector Type		SC, FC
Insertion Loss Per Connector	Typ.	0.25 dB
	Max.	0.5 dB
Return Loss Per Connector	Min. APC	60 dB
	UPC	50 dB
	SPC	40 dB
Fiber Type (Other fibers available)		Fujikura PANDA (UV/UV-250 or 400)
Polarization Axis Alignment Accuracy	Max.	$\pm 3^\circ$
Polarization Extinction Ratio	Typ.	30 dB
	Min.	25 dB
Operation Temperature		-20 to +70 °C
Storage Temperature		-40 to +70 °C
FC Key Width (External)		1.97 - 2.02 mm

Order Information

Information and specifications contained herein are deemed to be reliable and accurate. **TYBANG** reserves the right to change the design, specifications and diode lasers of these products at any time without prior notification.