Tybang Inc
www.tybang.com

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Polarization Maintaining 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 pumping Optical amplifiers
- Polarization based modulators
- High bit rate telecommunications

Specifications

Parameter	Specification		
Connector Types	SC and FC		
Insertion Loss Per Connector	Typ.	0.25 dB	
	Max.	0.5 dB	
Return Loss Per Connector	Min.	UPC	50 dB
		APC	60 dB
Fiber Type (Other fibers available)	Fujikura PANDA		
Polarization Axis Alignment Accuracy	Max.	±3°	
Polarization Extinction Ratio	Typ.	30 dB	
	Min.	25 dB	
Operation Temperature	U17B, U25A, U40A	-20 to +70 °C	
	H90A, N90A	+5 to +45 °C	
Storage Temperature	-40 to +70 °C		
FC Narrow Key Width	1.97 - 2.02 mm		

Ordering Information

PCP – A – B – C – D – E – F – G

A 1th end, **C** 2nd end Connector Types	**B** 1th end, **D** 2nd end Key Alignment	**E** Fiber Types	**F** Jacket Types	**G** Fiber Length
1 = SC/UPC 2 = SC/APC 3 = FC/UPC 4 = FC/APC 0 = Custom	1 = Slow axis 2 = Fast axis 0 = Custom	Example: 15U40 = SM-15-PS-U40A 14H90 = SM-14-PS-H90A Ref. Fujikura B-03D3023	1 = 900 µm loose tube 2 = 3 mm 0 = No jacket	Example: 10 = 1.0 m 15 = 1.5 m 20 = 2.0 m 25 = 2.5 m

Notes

- Other fiber types are available.
- Please call TYBANG for detailed information on customized specifications.

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