



NEX1 Technologies Co., Ltd

Polarization Maintaining Patch Cord (PM)

Polarization patch cords have orthogonal “slow” and “fast” axes with different propagation constants. There is little coupling between the polarization modes, therefore, light launched on one axis would propagate on that axis. It features high extinction ratio as a result of very accurate active alignment between PM Major axis and the connector key. Various PM fiber and connectors are available.

Specifications

Parameters	Unit	Values	
Connector Types		FC/UPC, SC/UPC, LC/UPC	FC/APC, SC/APC
Key Orientation		Slow axis	
Axis Alignment	deg.	3°	
Wavelengths	nm	980* 1060* 1310 1480 or 1550	
Maximum Insertion Loss	dB	0.5 dB	
Typical Insertion Loss	dB	0.4 dB	0.5 dB
Optical Return Loss	dB	≥ 50 dB	≥ 60 dB
Extinction Ratio	dB	≥ 23 dB	
Maximum Optical Power	mw	300	
Fiber Length Tolerance	%	10 %	
Operation Temperature	°C	-5°C to 75°C	
Storage Temperature	°C	-40°C to 85°C	
* Typical insertion loss 0.1dB higher for shorter wavelengths			



