



980nm Polarization Maintaining Patch-cord

Key Features

- High Return Loss
- High Extinction Ratio
- Low Insertion Loss
- Excellent stability and reliability

Polarization maintaining (PM) optical patch cords are widely used in polarization sensitive fiber optical systems for transmission of light that requires the PM state to be maintained.

Polarization Maintaining Patch-cord (Polarization Maintaining jumper) have orthogonal “slow” and “fast” axis 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.

We provide PM patch cords at different wavelengths (from 350nm to 2100nm). Those patch cords are made using best-known PM optical fibers (such as Fujikura PM Fibers or Nufern PM Fibers) and first-class quality optical fiber connectors. Our PM patch cord features high extinction ratio, low insertion loss, high return loss and long term reliability. Various PM fiber and connectors are available.

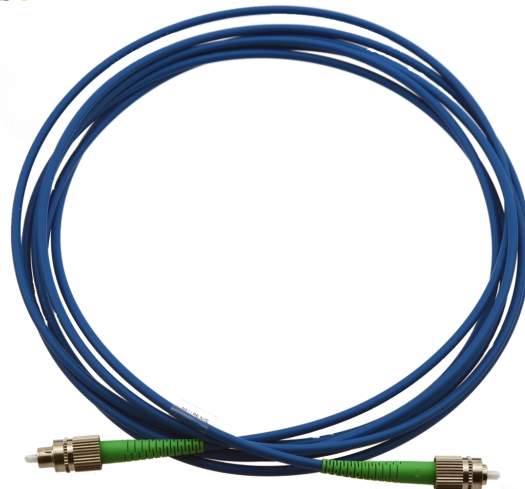
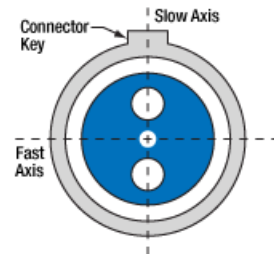
If you do not see a standard polarization maintaining patch cords that meets your needs, we welcome the opportunity to review your desired specification and quote a custom polarization maintaining patch cords. DK Photonics can respond to custom requirements with short lead times.

Applications

- Fiber Laser
- Fiber Instruments
- Fiber I/O Port
- Optical Transmitters & Transceivers



Panda PM Fiber Cross Section



For more Info

Please contact us at:

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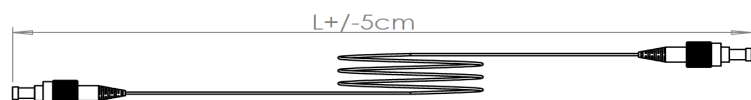
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

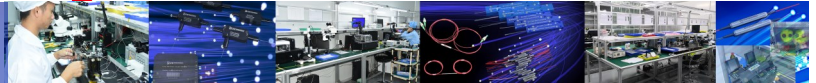
Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Drawing Example (FC patch cord):



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



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Performance Specifications

Parameters	Unit	Values		
Connector type	-	FC, SC, LC		
Test wavelength	nm	980		
Operating Wavelength	nm	970 - 1550		
Cutoff Wavelength	nm	870-950		
Grade	-	S	P	A
Insertion loss	dB	≤0.2	≤0.3	≤0.5
Extinction ratio	dB	≥26	≥23	≥20
Return loss	PC	dB	≥50	≥45
	APC	dB	≥60	≥55
Fiber Type	-	Corning PM 98-U25D		
Mode Field Diameter	μm	6.6 ± 0.5 μm @ 980 nm		
Repeatability	dB	≤0.2		
Changeability	dB	≤0.3		
Optical Power	mW	≤300		
Durability	times	≥1000		
Operation Temperature	°C	-5 to 75		
Storage temperature	°C	-40~ + 85		

- Above specification may change without notice. Operating wavelength range based on fiber cutoff wavelength.
- FC Connector key width: Narrow (2.0 mm).
- Power transmits through the connector less than 2W. The default connector key is aligned to slow axis.
- ER will be 2dB lower when use Nufern PM fiber.

Order information

P/N: PMPC-①-②-③-④-⑤-⑥-⑦ (PMPig-①-②-③-④-⑤-⑥-⑦: for PM fiber pigtail with only 1 connector)

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better.

①	②	③	④	⑤	⑥	⑦
Wavelength	Grade	Connector key Alignment	Fiber Type	Pigtails Diameter	Fiber Length	Connectors
98:980nm	S:S Grade	S: Slow Axis(default)	P98: PM980	25:250μm	05:0.5m	FP: FC/PC
XX: Others	P:P Grade	F: Fast axis	XX: fiber name	90:900μm	10:1.0m	FA: FC/APC
	A: A Grade			20:2.0mm	15:1.5m	SP: SC/PC
				30:3.0mm	XX: Others	SA: SC/APC
				XX: Others		LP: LC/PC
						LA: LC/APC
						XX: Others

Part Number Example: PMPC-98-P-S-PM980-90-20-FA

Description: 980nm Polarization Maintaining patchcord, P grade, PM980 panda fiber, Slow Axis Connector Key Alignment, with 0.9mm OD loose tube, 2m fiber length, and FC/APC connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.