

PM Patchcord

Description:

The polarization maintaining (PM) single mode optical patchcords for use in a number of applications, including interferometric sensors, polarization sensitive components, and high data rate communications systems. The FC and SC connectors are offered with UPC and APC polishing method.



Features:

- Wide range of Polarization Maintaining fibers
- Available both UPC and APC polishing:
- Alignment options:
 - Slow axis (Y-axis)
 - Fast axis (X-axis)
 - Specified by customer
 - Free
- Dust cover

Specifications:

Wavelength	980 ¹ , 1060 ¹ , 1310, 1480, 1550 nm
Insertion loss (IL)	typ.: 0.20, max.: 0.40 dB (depending on fiber type)
Return loss (RL)	UPC > 50 dB, APC > 60 dB
Extinction ratio	typ. 25 dB (23 dB min)
Max. optical power (CW)	300 mW
Temperature: operating	-5 to +70 °C, conditioned by type of cable
storage	-40 to +85 °C
Durability	min 1000 cycles

Material

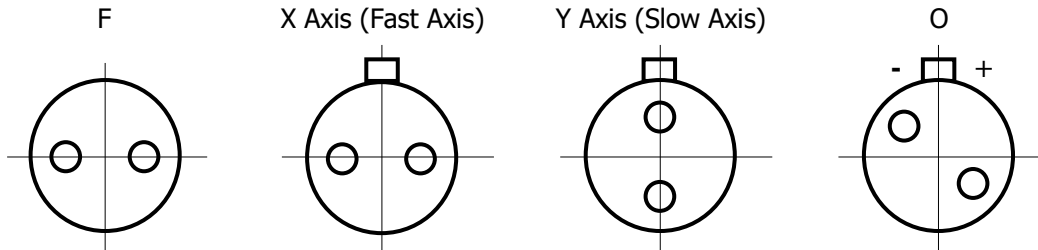
Coupling Nut	stainless steel
Plug Body	stainless steel, thermoplastic
Ferrule Material	full ceramic zirconia (the other type on demand)
Boot and Dust Cover	thermoplastic rubber (flame retardant)

Note: 1) for 980, 1060 nm: IL is 0.1 dB higher

Applications:

- FOG (Fiber Optic Gyroscope)
- LDV (Laser Doppler Velocimeter)
- Measurement sensors
- Testing and instrument systems
- Coherent transmission i.e. next generation of telecommunication
- PMD compensators

Polarization:



The stress applying members are free to the key.	The stress applying members are horizontal to the key ($0 \pm 3^\circ$).	The stress applying members are vertical to the key ($0 \pm 3^\circ$).	The stress applying members are at the specific angle to the key.
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Ordering code:

PM - AAA - X - XX - (PM Fiber)² - X - XX

AAA		X - Axis:	X - Pigtail or Jumper type:	XX - Length ⁴ [m]
Connector Type	Connector Description			
UPC	FC/UPC	F - free	J jumper	
NPC ³	FC/APC	X - X axis	P pigtail	
USC	SC/UPC	Y - Y axis		
NSC	SC/APC	O - \pm°		

XX - Jacket type:
09 fiber 0.9 mm jacket
30 cable 3.0 mm jacket

- Note:
- 2) Specify Polarization maintaining fiber type:
PANDA980
PANDA1060,
others
 - 3) NPC - 2.02 mm standard key width, NPC215 -2.15 mm on demand
 - 4) Length $\pm 10\%$

Samples of ordering code:

PM-NPC-X-28-PANDA980-J-02

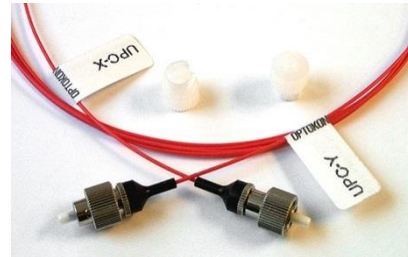
- PM patchcord, FC/APC connectors, X axis, Panda polarization maintaining fiber, wavelength 980 nm, length 2 m

PM-UPC-F-09-PANDA1550-P-03

- PM pigtail, FC/UPC connector, Free axis, Panda polarization maintaining fiber, wavelength 1550 nm, length 3 m



PM-NPC-X-28-PANDA980-J-02



PM-UPC-X/Y-09-PANDA1550-J-02