



## PMJ-D SERIES

PMJ-D-980, PMJ-D-1300  
PMJ-D-1550

### Features:

- Narrow key FC connector
- High PER
- High return loss
- Low insertion loss
- PANDA PMF

### Applications:

- Laser to PMF coupling
- Fiber Optic sensing
- Coherent communication
- Component pigtailed
- Other scientific research

## PMJ-D Series Near Infrared Polarization Maintaining Fiber Patchcords



Connet selects high-precision FC fiber optic connectors and ceramic ferrules for high-quality polarization-maintaining fiber patchcords. The operating wavelength range covers segment wavelengths (350-900 nm) and near-infrared wavelengths (900-1650 nm). And the mid-infrared wavelength (1900-2200nm) band, the product line is rich, to meet the needs of various applications.

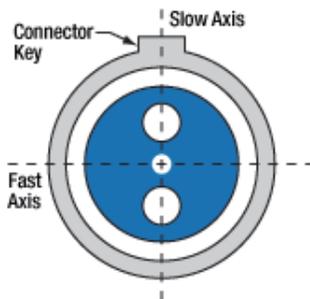
The standard polarization-maintaining fiber patchcords adopt PANDA type polarization maintaining fiber, and the slow axis alignment. According to the type of fiber, Connet polarization-maintaining fiber patchcords are divided into PMJ-D series, PMJ-S series and PMJ-LMA series. The polarization-maintaining fiber with Ge-doped core, the pure silica core polarization-maintaining fiber and the large mode area (LMA) polarization-maintaining fiber are respectively used.

Connet uses each of the most demanding processes to carefully craft each polarization-maintaining fiber patchcords to ensure high return loss and high polarization extinction ratio(PER), concentricity deviation, control of shaft angle deviation and strict reliability experiments make these polarization-maintaining fiber patchcords meet the industry's highest quality standards.

Connet standard polarization maintaining fiber patchcords use Narrow Key (2.0mm) FC fiber optic connectors, and the end face polishing is UPC type or APC type.

## Specifications:

Parameter	Unit	Specification		
		Min	Typ	Max
Product number		PMJ-D-980	PMJ-D-1300	PMJ-D-1550
Fiber type		PM980-XP	PM1300-XP	PM1550-XP
Operating wavelength	nm	970-1550	1270-1625	1440-1625
Core diameter	um	5.5	8.0	8.5
MFD	um	6.6 ± 0.5 μm @ 980 nm	9.3 ± 0.5 μm @ 1300 nm	10.1 ± 0.4 μm @ 1550 nm
Core NA	NA	0.12	0.12	0.12
Cut-off wavelength	nm	920 ± 50 nm	1210 ± 60 nm	1380 ± 60 nm
Core attenuation	dB/km	≤ 2.5 dB/km @ 980nm	≤ 1.0 dB/km @ 1300 nm	≤ 0.5dB/km @ 1550 nm
Beat length	mm	≤ 2.7mm @ 980 nm	≤ 4.0 mm @ 1300 nm	≤ 5.0 mm @ 1550 nm
Connector type		FC/UPC FC/APC	FC/UPC FC/APC	FC/UPC FC/APC
Connector key		Narrow key 2.0±0.02μm		
Key alignment type		Narrow key aligned to slow axis		
Return loss(FC/UPC)	dB	-	-	-55
Return loss(FC/APC)	dB	-	-	-65
Insertion loss	dB	<0.5	<0.5	<0.5
Polarization extinction ratio (PER)	dB	>23	>25	>25
Jacket	mm	0.9mm, 2.0mm, 3.0mm, Armoured		
Fiber length	m	0.1	-	10
Tolerance	cm	0.1	-	10
Operating temperature	°C	-20	-	70
Storage temperature	°C	-40	-	85



## Ordering information:

- PMJ-D-980-FA/FA-09-050: 5m length ,0.9mm jacket, FC/APC-FC/APC
- PMJ-D-1300-FU/FU-30-005: 0.5m length, 3.0mm jacket, FC/UPC-FC/UPC
- PMJ-D-1550-FA/FA-20-100-A: 10m length, 2.0mm jacket, Armoured FC/APC-FC/APC
- PMJ-D: Ge-doped core polarization maintaining fiber



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