

PMJ-D Series Short-wavelength Polarization Maintaining Fiber Patchcords



Product Description:

Connet PMJ-D series short wavelength polarization maintaining fiber patchcords are specially designed for short wavelength applications, ranging from 350nm to 900nm. The typical working wavelength is 405nm, 488nm, 630nm and 780nm.

Connet PMJ-D series short wavelength polarization maintaining fiber Patchcords adopt PANDA type polarization maintaining fiber and the slow Axis alignment, along with high-precision FC fiber connectors and ceramic ferrules for high quality.

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 PMJ-D series short wavelength polarization maintaining fiber patchcords use Narrow Key (2.0mm) FC fiber optic connectors with multiple connection options, including FC / UPC, FC / APC, and hybrid FC / UPC to FC / APC patchcords.

Applications:

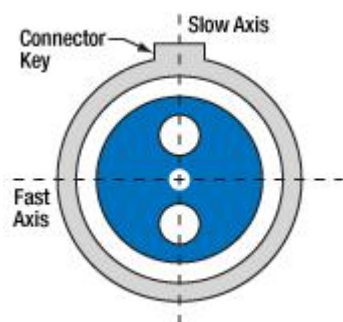
- Laser to PMF coupling
- Fiber Optic sensing
- Coherent communication
- Component pigtails
- Other scientific research

Features:

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

Specifications:

Parameter	Unit	Specification			
Part no.		PMJ-D-405	PMJ-D-488	PMJ-D-630	PMJ-D-780
Fiber type		PM-S405-HP	PM460-HP	PM630-HP	PM780-HP
Operating wavelength	nm	400-680	460-700	620-850	770-1100
Core diameter	um	3.0	3.0	3.5	4.5
MFD	um	3.3±0.5 @ 405 nm	3.3±0.5 @ 515 nm	4.5±0.5 @ 630 nm	5.3±1.0 @ 850 nm
Core NA	NA	0.12	0.12	0.12	0.12
Cut-off wavelength	nm	380 ±20	410 ± 40	570 ± 50	710 ± 60
Core attenuation	dB/km	≤ 30.0 @488 nm	≤ 100.0@488nm	≤ 15.0 @630 nm	≤ 4.0 @ 850 nm
Beat length	mm	2.0 @ 405 nm	1.3 @ 460 nm	1.8 @ 630 nm	2.4 @ 850 nm
Connector type		FC/UPC,FC/APC	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	>55	>55	>55
Return loss(FC/APC)	dB	>65	>65	>65	>65
Insertion loss	dB	<1.0	<1.0	<1.0	<0.8
Polarization extinction ratio (PER)	dB	>20	>20	>20	>20
Jacket	mm	0.9, 2.0, 3.0			
Fiber length	m	1, 2, 3, 5, 10			
Tolerance	cm	1~10			
Operating temperature	°C	-20~+70			
Storage temperature	°C	-40~+85			



Ordering information:

- PMJ-D-405-FA/FA-09-050: PMJ-D series 405nm polarization maintaining fiber patchcords; 5m length ,0.9mm jacket, FC/APC-FC/APC
- PMJ-D-488-FA/FA-09-050: PMJ-D series 488nm polarization maintaining fiber patchcords; 5m length ,0.9mm jacket, FC/APC-FC/APC
- PMJ-D-630-FU/FU-30-005: PMJ-D series 630nm polarization maintaining fiber patchcords; 0.5m length, 3.0mm jacket, FC/UPC-FC/UPC
- PMJ-D-780-FA/FA-20-100-A: PMJ-D series 780nm polarization maintaining fiber patchcords; 10m length, 2.0mm jacket, Armored FC/APC-FC/APC