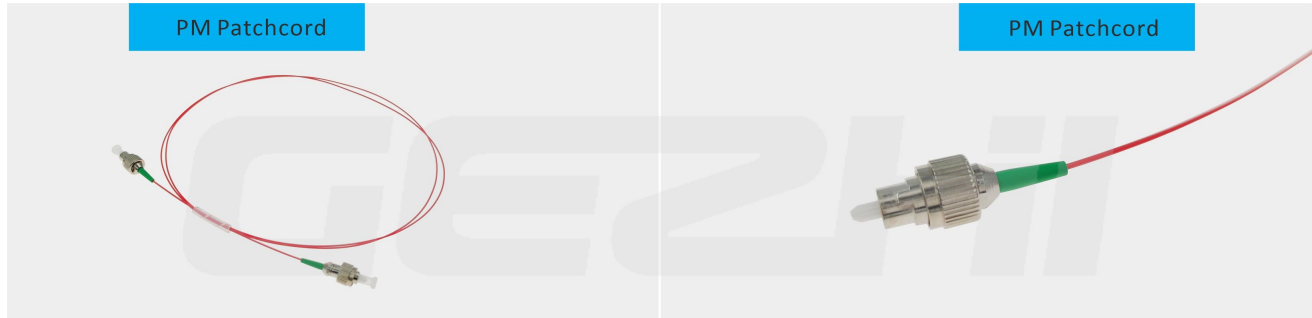


## Polarization Maintaining Patchcord

GEZHI Polarization Maintaining (PM) patchcords are based on a high precision butt-style connection technique. The PM fiber optical cable with orthogonal “slow” and “fast” axis with different propagation constants. The PM axis orientation is maintained by high precision active alignment between PM Major Axis and the connector key to ensuring good repeatability in extinction ratios and insertion losses.

The Polarization Maintaining (PM) fiber optic cable of GEZH Photonics are using famous PM optical fibers (Such as Nufern PM Fibers or Fujikura PM Fibers) . We also provide Polarization Maintaining (PM) fiber optical jumper cord with customized spec.

Features	Application
<ul style="list-style-type: none"> <li>● High Extinction Ratio</li> <li>● Low Insertion Loss</li> <li>● Excellent Repeatability</li> </ul>	<ul style="list-style-type: none"> <li>● Fiber Amplifiers</li> <li>● Coherent Telecommunications</li> <li>● Integrated Optics</li> </ul>

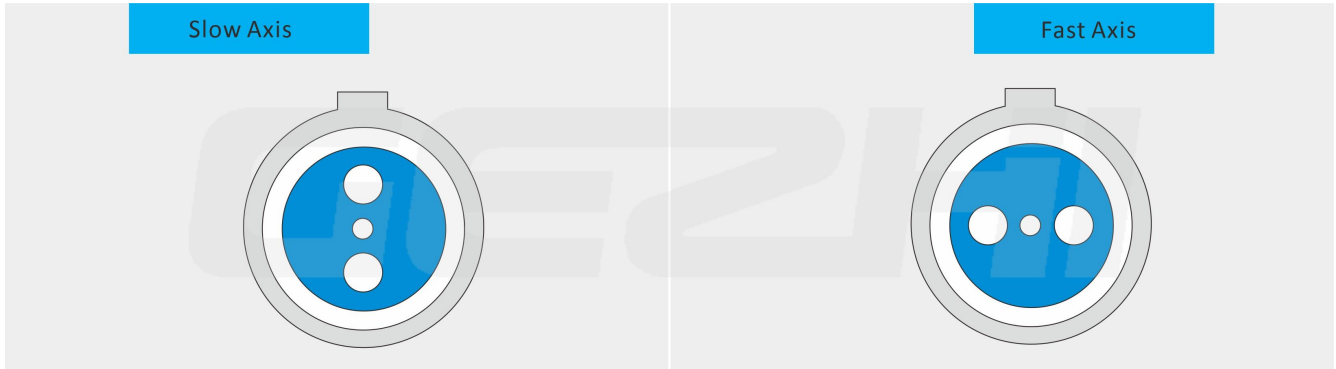


### Performance

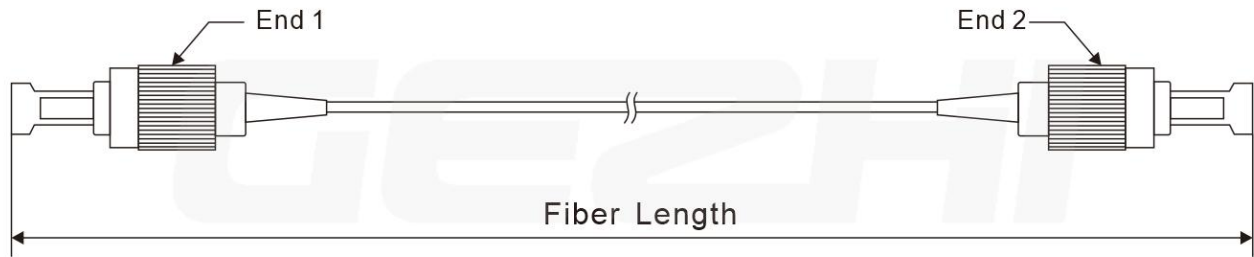
Specification	Unit	Parameter				
Fiber Type	/	PM780-HP	PM980-XP	PM1300-XP	PM1550-XP	PM-1950
Operating Wavelength	nm	770~1100	970~1550	1270~1625	1440~1625	1850~2200
Test Wavelength	nm	780	980	1310	1550	1950
Cutoff Wavelength	nm	650~770	870~970	1150~1260	1320~1440	1640~1800
Insertion Loss	dB	≤0.8	≤0.8	≤0.5	≤0.5	≤0.8
Extinction Ratio	dB	≥20	≥20	≥20	≥20	≥20
Numerical aperture	NA	0.12	0.12	0.12	0.125	0.20
Mode Field Diameter	um	5.3±1.0	6.6±0.5	9.3±0.5	10.1±0.4	8.0
Fiber Core Diameter	um	4.5	5.5	8.0	8.5	7.0
Cladding Diameter	um	125	125	125	125	80
Coating Diameter	um	245	245	245	245	165
Return Loss	PC	dB	≥45			
	APC		≥55			
Optical Power	mW	≤300				
Durability	times	≥1000				
Operating Temperature	°C	-40~+85				
Storage Temperature	°C	-40~+85				

Note: other Polarization Maintaining fiber optical cable which not show in table is available.

**Key Orientation**



**Drawing**



**Ordering Information**

Type	Wavelength	1 <sup>st</sup> Connector	2 <sup>nd</sup> Connector	Key Alignment	Cable Diameter	Fiber Type	Length
PMPC	78=780nm	FP=FC/UPC	FP=FC/UPC	F=Fast axis block, Slow Axis work(default)	09=900um	PM780-HP	01=1M
	85=850nm	FA=FC/APC	FA=FC/APC		20=2.0mm	PM980-XP	02=2M
	98=980nm	SP=SC/UPC	SP=SC/UPC		30=3.0mm	PM1300-XP	05=5M
	13=1310nm	SA=SC/APC	SA=SC/APC		S=Specify	PM1550-XP	10=10M
	15=1550nm	LP=LC/PC	LP=LC/PC	S=Slow axis block, Fast Axis Work S=Specify	S=Specify	PM-1950	S=Specify
	19=1950nm	LA=LC/APC	LA=LC/APC				
	S=Specify	S=Specify	S=Specify				