

Polarization Maintaining Fiber Patch Cable



Description

Polarization Maintaining (PM) Fiber Patch Cables can transmit polarized light signals while ensuring that the direction of linear polarization remains unchanged, thereby improving the coherence signal-to-noise ratio and enabling high-precision measurements of physical quantities. It is commonly used in applications such as fiber optic gyroscopes, fiber optic communications, fiber optic sensors, fiber optic hydrophones, and fiber optic interferometers.

Features

- Low Insertion Loss
- High Extinction Ratio
- High Return Loss
- High Stability and Reliability

Applications

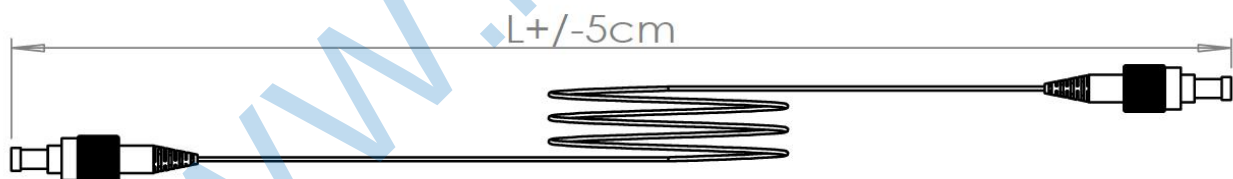
- Fiber Sensor
- Fiber Amplifier
- Fiber Optic Communication
- Polarization-Sensitive Component

Specifications

Parameter	Unit	Value							
Center Wavelength	nm	405	488	630/670	780/850	980/1064	1310	1480/1550	1950/2000
Insertion Loss	dB	≤2.5	≤2.5	≤1.5	≤1.0	≤0.7	≤0.5	≤0.5	≤0.5
Return Loss	dB	≥50 @UPC, ≥60 @APC							
Extinction Ratio	dB	≥15	≥18	≥20	≥20	≥22	≥23	≥23	≥20
Max Optical Power (CW)	mW	100	100	100	300	300	500	500	500
Fiber Type	-	PM405	PM460	PM630	PM780	PM980	PM1300	PM1550	PM1950
Working Axis		Slow Axis (Default) or Fast Axis or Both Axis							
Tensile Load	N	5							
Operating Temperature	°C	0 to +70							
Storage Temperature	°C	-40 to +85							

Notes: Tested at 25 °C. The fiber slow axis is aligned to the key by default.

Product Dimensions



Ordering Information

 nm			 m	 $\mu\text{m}/\text{mm}$				
Center Wavelength	Working Axis	Fiber Type	Fiber Length	Cable Diameter	Cable Jacket	Jacket Color	End A	End B
405nm	Slow Axis	PM405	1m	250 μm Bare Fiber	PVC	Yellow	LC/UPC	LC/UPC
488nm	Fast Axis	PM460	2m	900 μm Loose Tube	LSZH	Blue	LC/APC	LC/APC
630nm	Both Axis	PM630	3m	2.0mm			SC/UPC	SC/UPC
670nm		PM780	5m	3.0mm			SC/APC	SC/APC
780nm		PM980	10m				FC/UPC	FC/UPC
850nm		PM1300	15m				FC/APC	FC/APC
980nm		PM1550	20m				ST/UPC	ST/UPC
1064nm		PM1950	30m				ST/APC	ST/APC
1310nm			50m				E2000/UPC	E2000/UPC
1480nm			100m				E2000/APC	E2000/APC
1550nm								
1950nm								
2000nm								