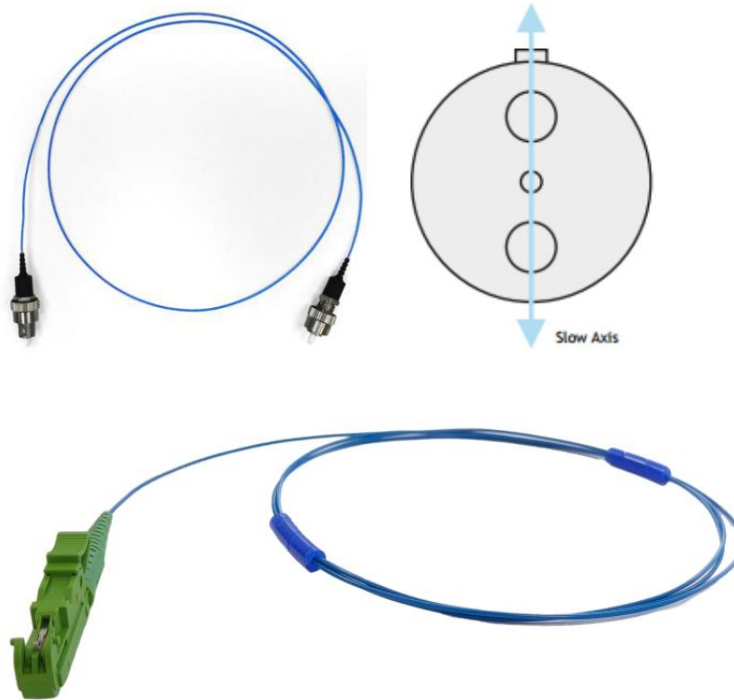


Type:	PM Patchcord	REV: 1.1
Date:	14/06/2024	MD
Modification:		
Reference:	SP-PM1550-, see ref. system below	

## Polarization Maintaining Singlemode 1550 nm Patchcords



**Fibrain PM patchcords** are made with Panda fiber. Keying to the slow propagation axis is typically performed, keying to the fast axis is also possible. FC (APC and UPC) and E2000 (APC and UPC) connector types are available. The cables are individually tested and delivered with full test reports. Fully automated preparation and polishing process as well as detailed selection of the manufacturing components ensure the highest quality and reliability of the connectors used. The patchcords are available in 0.9 mm loose tube or 1.8 mm and 2.8 mm LSOH protective jackets with internal Kevlar threads. The patchcord length can be chosen according to the customer's needs.

### APPLICATION FIELDS:

- ✓ Measurement devices
- ✓ Light sources

### FEATURES AND ADVANTAGES:

- ✓ High polarization extinction ratio
- ✓ Low insertion loss
- ✓ Wide spectral operating range (1440 – 1625 nm)
- ✓ Keying according to customer requirements

### TECHNICAL SPECIFICATION:

Parameter	Unit	Value*
Operating wavelength	nm	1440 – 1625
Core NA	-	0.125
Mode Field Diameter (Gaussian)	µm	10.1 +/- 0.4
Cut-off wavelength	nm	1380 +/- 60
Core attenuation	dB/km	≤ 1.0
Core diameter	µm	8.5
Core/clad concentricity	µm	≤ 0.50
Cladding diameter	µm	125 +/- 1
Max Insertion loss (per connector)	dB	0.50
Polarization Extinction Ratio PER (per connector)	dB	≥ 22 (FC connector type) ≥ 20 (E2000 connector type)

\*all values @1550 nm

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## Photonics

### PACKAGING:

The patchcord are individually packed in string bags.

### ORDERING INFORMATION:

Series	Type	Keying	Connector A	Connector B	Length	Cable diameter	Cable color
SP	PM1550	S – slow axis	FC	FC	000.5 – 0.5 m	09 – 0.9 mm	T – Turquoise
		F – fast axis	FCA	FCA	001.0 – 1 m	18 – 1.8 mm	BL – Blue
		X – other	E2A	E2A	003.0 – 3 m	28 – 2.8 mm	
			E2	E2	005.0 – 5 m		
				010.0 – 10 m			

Examples of references:

**SP-PM1550-S-E2A-E2A-005.0-18-T** – Fibrain Patchcord PM1550, Slow Axis, E2000APC/E2000APC, 5.0m, Cable 1.8mm, Color turquoise.

**SP-PM1550-S-FCA-FCA-001.0-09-BL** – Fibrain Patchcord PM1550, Slow Axis, FCAPC/FCAPC, 1.0m, Cable 0.9mm, Color blue.

#### Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.