

PM Patch Cord



Description

Panda PM fiber connectivity solutions include single-fiber connectors, multi-fiber (MT/MPO) connectors, and fiber array units (FAU), designed for polarization-maintaining optical applications.

Built with Panda-type PM fibers and precise axis alignment control, these assemblies ensure stable polarization performance, low insertion loss, and high extinction ratio. They are widely used in sensing, coherent transmission, and other polarization-sensitive optical systems requiring high stability and reliability.

Features

- Available in single-fiber and multi-fiber (MT/MPO, FAU) configurations
- High extinction ratio with stable polarization performance
- Precision axis alignment for PM applications
- PC / UPC / APC end face polish options
- Compatible with standard connector interfaces
- Flexible fiber type and configuration options
- 100% factory terminated and tested
- RoHS Compliance

Applications

- Fiber optic sensing systems
- Optical test and measurement instruments
- Coherent transmission systems
- Advanced photonic integration (e.g., CPO)

Standard Compliance

- TIA-568.3-D
- TIA-604 series

- IEC 61754 series
- IEC 61753-1
- Telcordia GR-1435-CORE
- Telcordia GR-326-CORE
- RoHS Compliant

General Specification

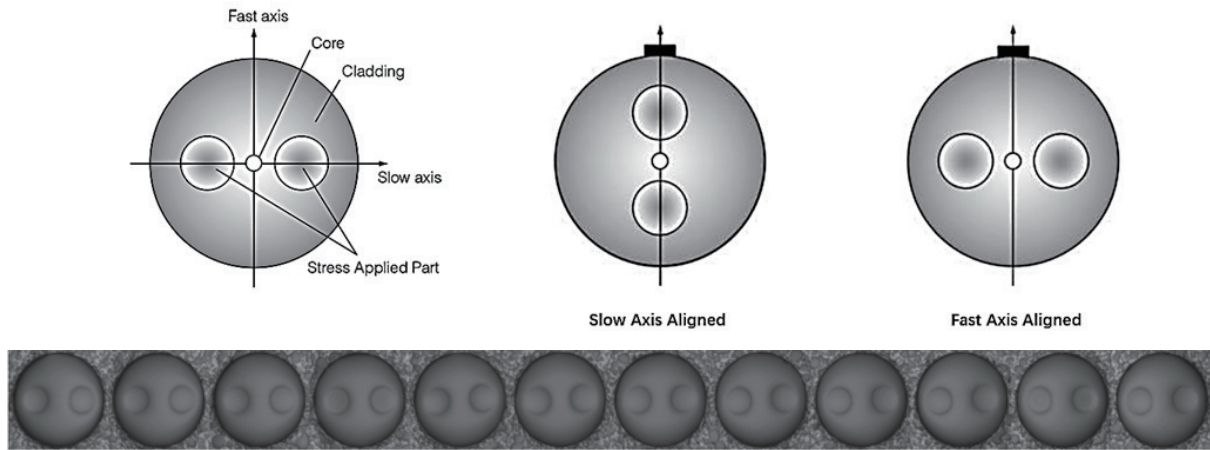
Single-Fiber Connector

Constructions	Descriptions
Fiber type	Panda fiber: PM1310/PM1550
Cable Jacket Material	Low Smoke Zero Halogen (LSZH)
	PVC
	Hytrel (for $\varphi 0.9$ mm only)
Cable Diameter (mm)	$\varphi 0.9/\varphi 2.0/\varphi 3.0$
Cable Jacket Ratings	Riser (OFNR)
	Plenum (OFNP)
Cable Jacket Color	$\varphi 0.9$ mm: White
	$\varphi 2.0$ mm/ $\varphi 3.0$ mm: Yellow
	Customized
Connector type	FC/SC/LC
Axis aligned	Slow axis aligned/Fast axis aligned or Customized
Operating Temperature	-10 °C to + 60 °C
Storage Temperature	-40 °C to + 85 °C

Multi-Fiber Connector

Constructions	Descriptions
Fiber type	Panda fiber: PM1310/PM1550
Cable Jacket Material	Low Smoke Zero Halogen (LSZH)
	PVC
Cable dia.(mm)	$\varphi 3.0$
Cable Jacket Ratings	Riser (OFNR)
	Plenum (OFNP)
Cable Jacket Color	Yellow or Customized
Connector type	MTP®, MPO
Endface coated	AR coated/non-coated
Polarity	Type A, Type B, Type C (TIA-568.3-D)
Connector Ferrule	12F/16F/24F

Axis aligned	Slow axis aligned/Fast axis aligned or Customized
Operating Temperature	-10 °C to + 60 °C
Storage Temperature	-40 °C to + 85 °C



Technical Specification

Optical Properties	Multi-Fiber Connector	Single-Fiber Connector
Insertion Loss (dB)	Low Loss ≤ 0.35 ; Standard loss ≤ 0.75	UPC ≤ 0.2 ; APC ≤ 0.3
	Low Loss ≤ 0.35 (AR coated)	
Return Loss (dB)	PC ≥ 50 ; APC ≥ 60	UPC ≥ 50 ; APC ≥ 60
Extinction Ratio (dB)	≥ 20 (1m)	≥ 23 (1m)
Wavelength (nm)	PM1310: 1310, PM1550: 1550	