

Polarization-maintaining fiber optic patch cord axis-to-axis system



Overview

Available in customized connector combinations such as FC/APC to LC/UPC or MPO to FC/UPC, and supporting both slow axis and fast axis alignment as per your project requirements, this patch cord is perfect for demanding polarization-sensitive systems such as. Available in customized connector combinations such as FC/APC to LC/UPC or MPO to FC/UPC, and supporting both slow axis and fast axis alignment as per your project requirements, this patch cord is perfect for demanding polarization-sensitive systems such as. Polarization Maintaining Fiber Optic Patchcords are available with FC/PC or FC/APC terminated connectors. Hybrid terminated connectors enable users to adapt FC/PC or FC/APC patchcords for compatibility with existing fiber assemblies. Typical extinction ratios between 18 - 25dB maintain input. 1310/1480/1550nm Polarization Maintaining (PM) Fiber Patch Cable, Slow Axis Working is specially designed for polarization-sensitive applications across the 1310nm, 1480nm, and 1550nm wavelengths. The PM axis orientation is maintained by using male connectors with a positioning key and a bulkhead female receptacle with a tightly toleranced keyway, ensuring good repeatability in extinction. These polarization-maintaining fiber optic patch cables are terminated on both ends with high-quality, narrow key, ceramic FC/PC connectors, featuring high-quality polish with a typical return loss of 50 dB. Produced by our equipment, each patch cord is individually tested at the test wavelength specified in the specification label, ensuring extinction ratio and low back reflection (return loss) for both the fiber and its connections.

Article Content

May 09, 2026

Customized Polarization Maintaining Patch Cord – FC, LC, MPO

This high-performance Polarization Maintaining (PM) Fiber Patch Cord is engineered for precision-critical optical systems. Using Panda-type PM fibers and carefully aligned connectors, it ...

Jun 19, 2026

Polarization Maintaining Patchcord

The PM Patchcord series has excellent environmental stability, high return loss, low insertion loss. It is ideal for PM amplifiers, fiber lasers and test instrumentation applications.

May 18, 2026

Polarization-Maintaining FC/PC Fiber Optic Patch Cables

These polarization-maintaining fiber optic patch cables are terminated on both ends with high-quality, narrow key, ceramic FC/PC connectors. These cables are available from stock and feature a high ...

Dec 21, 2025

Polarization-Maintaining Fiber Optical Patch Cable

Each cable is individually tested to ensure the specified extinction ratio and insertion loss at fiber-to-fiber junctions. Each patch cable includes two protective caps that shield the ferrule ends from dust and ...

Jun 08, 2026

Polarization-maintaining fibers

In polarization-maintaining single-mode fibers (PM fibers), the fiber symmetry is broken by integrating stress elements in the fiber cladding. The light is then guided in two perpendicular principle states of ...

Sep 13, 2025

Polarization Maintaining Fiber Optic Patchcords

Polarization Maintaining Fiber Optic Patchcords are available with FC/PC or FC/APC terminated connectors. Hybrid terminated connectors enable users to adapt FC/PC or FC/APC patchcords for ...

Apr 08, 2026

Polarization Maintaining PM Fiber Optic Patch Cables

FS offers polarization maintaining PM fiber patch cables with excellent birefringence and low attenuation for polarization sensitive fiber optic communication systems.

Feb 02, 2026

POLARIZATION MAINTAINING FIBER PATCHCORDS AND ...

A common requirement in polarizing devices is a fiber optic patchcord assembly where two or more polarization maintaining fibers are terminated in a single ferrule, to be attached to a lens or other ...

Mar 15, 2026

How to connect polarization maintaining patchcord | Yingda

Polarization maintaining patchcords maintain polarization between the fast axis (low refractive index) and the slow axis (high refractive index). We must ensure that the PM patchcord ...

Sep 16, 2025

780nmPolarizationMaintainingFiber OpticConnector/PatchCord

Product features Slow Axis Alignment□ Polarization-maintaining fiber with a pair of FC/APC connectors□ Wavelength range of 400-2200 nm□ Narrow key (2 mm) and slow axis alignment□ ...

Jul 09, 2026

Polarization Maintaining PM Fiber Patch Cable LC/SC/FC/ST

As a professional in the optical communications industry, I have very high requirements for maintaining the polarization of optical signals. This customized bias-preserving patch cable fully meets my ...

Dec 17, 2025

1310/1480/1550nm Polarization Maintaining PM Fiber Patch Cable, ...

Utilizing slow-axis working PM fiber, it provides high extinction ratio, low insertion loss, and excellent optical stability, ensuring reliable signal transmission in demanding environments.

Contact Us

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