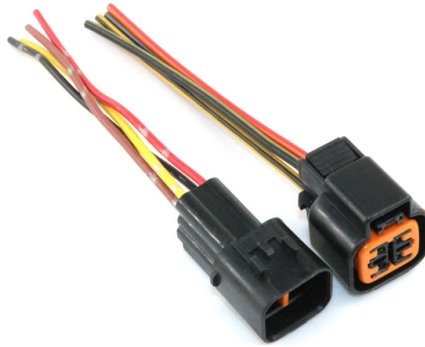


Fiber optic patch cord APC-PC



Article Overview

Connecting an APC connector to a PC connector is generally not recommended due to mismatched end-face geometry, which can cause high back reflection and signal loss.

Connector Differences

- PC (Physical Contact) connectors have a slightly convex end-face designed to minimize air gaps between fibers, with typical return loss around 35–40 dB .
- APC (Angled Physical Contact) connectors have an 8° angled end-face that redirects reflected light into the cladding, achieving superior return loss of around 60 dB .
- Color Coding: PC/UPC connectors are usually blue, while APC connectors are green, making visual identification easier .

Compatibility Issues

Mating an APC connector to a PC connector is problematic because the angled end-face of the APC does not align properly with the flat or slightly convex PC end-face. This misalignment can result in:

- High back reflection, which may interfere with laser sources, especially in single-mode fiber systems .
- Increased insertion loss, reducing signal strength and potentially causing network instability .
- Physical stress on the ferrules, which can damage the fiber end-face over repeated connections

Article Content

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Low inser on loss Angled Physical Contact (APC), ultra Physical Contact (UPC) straight cord or combined hybrid type cords with

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Thorlabs manufactures and stocks a range of optical fibers and patch cables based on single mode (SM),

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Fiber Optic Patch Cable Connector Polishing Method

To make better contact between the ends of the two fibers, the ferrule end faces of the fiber

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Fiber optic patch cord is available in both singlemode and multimodeversions.Both singlemode and multimode versions fiber optic

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Fiber optic patch cords are used for short distance installations that connect to patch panels, switches and telco equipment. We

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Get reliable Fiber Patch Cord Cables from US stock with fast shipping ...

Our patch cords range from 0.5m to 30m and have almost all available combination of optical connectors. The most available lengths

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Sc LC FC Type APC/Upc Fiber Optical Patch Cord

A fiber optic patch cord is a fiber optic cable that has connectors at both ends that allow it to

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APC, UPC, PC Fiber Connector Types Comparison and

Today, this post will introduce APC, UPC, and PC fiber connector types, which are

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Fiber Optic Patch Cord

Both singlemode and multimode versions fiber optic patch cord come with a zirconia ceramic ferrule with

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Fiber Optic Patch Cables: The Complete 2026 Buyer's

This complete fiber optic patch cable guide covers connector types, single-mode vs

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Single Mode FC/APC Fiber Optic Patch Cables

These single mode fiber optic patch cables are FC/APC terminated on both ends, making them ideal for systems that are sensitive to

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PATCH CORD FIBER OPTIC 5 MTR SC/APC

Patch cord features PC-UPC-APC Polishing High Return Loss, Low Insertion Loss High reliability Ceramic Ferrule 400x Electro

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Fiber Patch Cord & Pigtail: Types, Specifications & Selection | Opelink

A fiber patch cord has connectors on both ends, used to connect active equipment (switches, routers, ONTs) or to

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Fiber-optic patch cord

A fiber-optic patch cord is a fiber-optic cable capped at each end with connectors that allow it to be rapidly and conveniently

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Simplex SC/APC to SC/APC Fiber Optic Internet

About this item Simplex SC/APC to SC/APC Fiber Patch Cable 1m/3ft,Fiber Optic Internet Cable,Single

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What are the Differences of PC, APC, UPC Interface Fiber Patchcords

The end faces of APC connectors are beveled, so the return loss of APC connectors is usually better than UPC connectors. In

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PC, UPC, APC Fibre Connector Types Comparison and Selection

The physical connection of the fibre, sometimes referred to as the different polished fibre end face shapes, is

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Fiber Optic Patch Cord

Fiber patch cords are one of the most widely used basic components in optical communications.

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FC/APC to FC/APC Simplex Fiber Optic Patch Cable

This high-quality singlemode fiber optic patch cable is specifically designed using SMF-28e fiber for

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3FT SC/APC to SC/APC Fiber Optic Cable, Armored Single Mode Patch Cord ...

Premium Armored Fiber Optic Cable: This 1m SC/APC to SC/APC armored cable features stainless steel protection and LSZH

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Fiber Optic Patch Cord Manufacturer/Supplier | COPPERLED

Copperled is a leading optical fiber patch cord supplier. Our optical patch cord types include FC, SC, ST, LC, MU, E2000, MPO/MTP,

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Differences Between PC, UPC, and APC Interface Fiber Patch Cords

For cost-effective general use, PC is sufficient; for high-speed digital networks, UPC's low attenuation is preferred;

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How to Distinguish the Ferrule of the Patch Cord?

Learn how to distinguish between PC, APC, and UPC ferrules in fiber optic patch cords. Our guide explains how to

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Fiber Optic Patch Cord Types: SC/LC/FC/ST Connectors, APC/UPC

Find high-quality fiber patch cords from Zion Communication – SC/LC/FC/ST types with APC/UPC polish, simplex/duplex styles, from

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20meter 65ft SC/APC to FC/PC Fiber Optic Cable Jumper Optical Patch ...

Amazon : Jeirdus 20meter 65ft SC/APC to FC/PC Fiber Optic Cable Jumper Optical Patch Cord Simplex Single-Mode 9/125 SC

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SC/PC to SC/APC Simplex, 3.0mm, Singlemode Patch

SC/PC to SC/APC Fiber optic Jumper. F-FOJ-SC/PC-SC-APC-XX This high-quality single-mode fiber optic

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Fiber Optic Patch Cord

Custom Solutions: Our patch cords are available in different fiber types, lengths, and jacket styles, tailored

Contact Us

For more information, pricing, or custom solutions, please contact us:

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