

Can APC use a PC connector



Article Overview

APC and PC fiber connectors are not directly compatible due to differences in ferrule end-face angles, and mating them can cause high insertion loss and back-reflection.

Key Differences Between APC and PC Connectors

- APC (Angled Physical Contact) connectors have an 8° angled ferrule end face, which directs reflected light into the fiber cladding, minimizing back-reflection and achieving a typical return loss of around -60 dB .
- PC (Physical Contact) connectors have a slightly curved or nearly flat end face, designed to reduce the air gap between fibers, with a typical return loss of about -40 dB .
- The polish type directly affects optical performance, particularly return loss and signal integrity.

Compatibility Considerations

- Direct mating of APC to PC connectors is not recommended. The angled end of the APC ferrule does not align properly with the flat or slightly curved PC ferrule, which can result in significant insertion loss and high back-reflection, potentially damaging sensitive optical equipment .
- If a connection between APC and PC fibers is required, the recommended solution is to use a hybrid patch cable that has an APC connector on one end and a PC connector on the other. This ensures proper alignment and minimizes optical performance degradation .

Practical Recommendations

Article Content

APC vs UPC Fiber Connectors: Which is Best for Your Application?

Flat, PC, UPC and APC are types of fiber connectors. We explore the differences between them and how to choose the best one for

PC, UPC or APC – Selecting the Right Fiber Connector

When describing fiber connectors, we often use terms like “LC UPC simplex single-mode fiber connector” or “ SC APC

Understanding Fiber Connector Types: SC/APC,SC/PC, LC/UPC,LC/APC, ST/PC ...

It's important to never directly mate an APC connector (green) with a UPC or PC connector (blue or black), as this can damage the

APC vs UPC vs PC Fiber Connector, What is the Difference?

Since UPC and PC connectors are interchangeable, most SFP modules support both but can not support APC type.

APC vs UPC vs PC Fiber Connector, What is the Difference? (2026)

A: PC and UPC connectors, both having flat surfaces, are compatible and can be mixed when used. However, APC

APC, UPC, and PC Connectors in Fiber Cable

Choosing the right fiber connector can make all the difference to your network and overall

UPC, PC and APC Fiber Connectors Guide | PHILISUN

Compare UPC, PC and APC fiber connector polish types for return loss, patch cords,

PC vs UPC vs APC Connectors: ORL, Geometry and System-Level

PC connectors provide basic physical contact; UPC offers improved surface smoothness for low-reflection digital

Understanding Fiber Connector Types: SC/APC,SC/PC,

It's important to never directly mate an APC connector (green) with a UPC or PC connector (blue or black), as this can damage the

APC vs UPC vs PC Fiber Connectors: Clear Comparison & How to

When choosing fiber optic cables or fiber connectors you will often see the terms PC, UPC and APC in product sheets. Those three

APC vs PC Connectors

APC vs PC Connectors Fiber connectors are not all the same. As well as the different physical types – such as SC, FC and E2000 –

PC vs UPC vs APC Connectors: ORL, Geometry and System-Level

PC, UPC, and APC connectors differ not only in appearance but also in back reflection, insertion loss, long-distance

Fiber SFP Module Compatibility with APC, UPC, PC

APC, UPC, PC are different polishing types of fiber patch cable connectors. And we always hear the description like

Friend gave me this APC made UPS. How do I setup this for my PC?

The only cables you usually need are a USB Type A to B cable (old printer or USB hub cable) to connect to the PC. And this is only if

AscentOptics

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

PC vs UPC vs APC Fiber Connectors | Key Differences To Know!

In this week's video, Ben Hamlitsch explains the similarities and differences between PC,

Fiber SFP Module Compatibility with APC, UPC, PC

Mixing connector types — for example, using an APC connector with a UPC adapter — can cause serious reflection,

APC vs UPC vs PC Fiber Connectors: What's the Difference?

APC connectors are identical to PC connectors except they have an angled end face that is polished at 8 degrees.

APC vs UPC vs PC Fiber Connectors: Differences, Uses, and

Discover the key differences between APC, UPC, and PC fiber connectors. Learn their designs, return loss, and ideal

APC vs UPC vs PC Fiber Connector, What is the Difference?

Do you know the difference of APC vs UPC vs PC fiber connectors? This post compares them in very detail and

A Comprehensive Guide to APC, UPC, and PC Connectors in Fibre

Conclusion Understanding the differences in fibre connector polishing constructions—APC, UPC, and PC—is crucial for selecting the

PC vs UPC vs APC Connector: Selecting the Right Fiber Connector

PC, UPC, and APC connectors offer varying performance levels in terms of insertion loss, return loss, and back

APC, UPC, PC Fiber Connector Types Comparison and Selection

Since both PC and UPC connectors have a flat surface, they are compatible with each other and can be mixed when

APC vs PC Connectors

As well as the different physical types – such as SC, FC and E2000 – there is a big difference between APC and PC or UPC

PC vs UPC vs APC Fiber Connectors – What is the

This article explains the differences between PC, UPC, and APC fiber connector polishes

Ultimate Guide to APC, UPC, and PC Fiber Optic Connectors: Types ...

Explore the key differences between APC, UPC, and PC fiber optic connectors. Learn about their performance,

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