

Fiber optic PC connector



AI Overview

A PC (Physical Contact) fiber optic connector is a type of connector where the fiber ends are polished to make direct contact, reducing the air gap and improving signal quality.

Overview of PC Connectors

A PC fiber connector stands for Physical Contact. It was developed in the 1980s to improve upon the original flat fiber connectors, which had significant air gaps between fiber ends, causing high optical return loss (ORL) and signal degradation. In a PC connector, the fiber end faces are slightly convex, allowing the cores of two fibers to touch directly when mated. This reduces back reflection and improves signal transmission compared to flat connectors.

Optical Performance

The typical return loss for a PC connector is around -40 dB, which is higher than the original flat connectors but lower than more advanced types like UPC (-50 dB) and APC (-60 dB). While PC connectors are still functional, they are gradually being replaced by UPC (Ultra Physical Contact) connectors, which offer better surface finish and lower return loss, and APC (Angled Physical Contact) connectors, which further reduce back reflection by angling the ferrule end face.

Applications

PC connectors are used in both single-mode and multimode fiber networks, including telecommunications, data centers, and digital TV systems. They are suitable for general-purpose connections where extremely low return loss is not critical. For high-performance applications, UPC or APC connectors are preferred.

Article Content

Fiber Optic Connectors Guide: 8 Types, PC/UPC/APC Polishes, and

Discover the 8 essential fiber optic connector types (LC, SC, FC, etc.), their key advantages, and differences. Learn

Fiber Connector Types: A Comprehensive Guide 2025

A fiber optic connector is a mechanical device used to align and join optical fibers, enabling light to pass through with

Buy fiber optic connectors from EFB-Elektronik

In our online store, we offer a wide range of fiber optic connectors and couplers (PC/APC) with ceramic sleeves. Here you will find

FC connector

The FC connector is a fiber-optic connector with a threaded body, which was designed for use in high

Fiber Optic Connectors and Adapters

As a leading supplier of advanced fiber optic components, Molex has an extensive product offering that includes a full range of

Understanding Fiber Optic Cables and Connectors

Read Whitepaper: Discover the fiber optic cable and connector types, specifications, benefits, typical

Types of Fiber Optic Cable Connectors and Their Uses

Choosing the correct connector type ensures ideal performance of the fiber optics cables and devices. Learn more about the types of

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

The PC (Physical Contact) connector was one of the earliest fiber polish types. It features a slightly curved

Fiber Optic Connector Types – The Ultimate Guide

You'll learn how to visually identify these fiber optic connector types by size and latch style, compare their performance

Amazon : Fiber Optic Connector

20 pcs SC-APC Fiber Optic Quick Assembly Connector Fiber Optic Fast Connectors Singlemode 9/125 Mechanical Connectors

The FOA Reference For Fiber Optics

The next confusing nomenclature for fiber optic connectors came from the polishing of the end of the

How Many Fiber Connector Types Do You Know?

Fiber optic connectors that come in various configurations and types are important components of fiber optic cables.

LC/PC and LC/APC Fiber Connectors: Single Mode

These LC ®* /PC (Lucent Connector / Physical Contact) and LC/APC (Lucent Connector / Angled Physical

Fiber Optic Connectors | Corning

Corning's fiber optic connector technology includes proven field-installable fiber connectors which make fiber terminations fast, easy,

Fiber Optic Connectors: Detailed Guide to Types and Uses

Fiber optic connectors might be small, but they play a big role in ensuring fast and reliable data transfers. They link fiber optic cables,

Fiber Optic Connector Types: A Beginners Guide

The fiber connector types, sometimes referred to as terminations, link fiber optic cables together through terminals,

Fiber Optic Connectors Explained: Design, Types & Applications

Fibers in lasers are found in the medical, industrial equipment, military, and transportation industries. There are many

Fiber Optic Connectors – Mouser

Fiber optic connectors are specialized components used to terminate optical fibers and enable precise, low-loss connections for

Fiber Optic Connectors | TE Connectivity

Fiber Optic Connector Types Fiber Optic Solutions for Long-Term Reliability and Flexibility TE's fiber optic connectors accommodate

Contact Us

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