

Fiber optic connector round head



AI Overview

A round-headed fiber optic connector is a type of connector where the fiber tip is polished into a slightly convex or domed shape to ensure optimal physical contact and low signal loss.

Overview

A round-headed fiber optic connector, often referred to as a physical contact (PC) connector, features a fiber endface that is slightly rounded or convex. This design allows the fiber cores to make direct contact when mated, minimizing the air gap between fibers and reducing insertion loss and back reflection (return loss) during optical signal transmission. The ferrule, typically made of ceramic, holds the fiber in precise alignment, and the spring-loaded mechanism ensures consistent contact pressure when connectors are joined.

Types and Polishing Variants

Round-headed connectors are commonly found in FC/PC, FC/SPC, and FC/UPC types:

- FC/PC (Physical Contact): Standard round polish, providing reliable contact for single-mode fibers.
- FC/SPC (Super Physical Contact): Enhanced polish for higher return loss and lower insertion loss, improving signal quality.
- FC/UPC (Ultra Physical Contact): Ultra-polished convex tip for minimal back reflection, ideal for high-precision single-mode applications. The convex shape ensures that when two connectors are mated, the fiber cores touch at a single point...

Article Content

Mar 29, 2026

Identifying Fiber Optic Connectors

Camplex manufactures fiber optic solutions that improve and extend the performance of broadcast operations. Because the Camplex

Aug 10, 2025

Fiber Connector Types: A Complete Guide (2024)

A fiber connector is a precise coupling device to join fiber cables quickly. This guide introduces LC, SC, FC, ST, MPO,

Apr 30, 2026

Optical Connectors & Fiber Optics Connectors | Radiall

Radiall's full range of optical interconnect solutions includes standard interfaces, optical termini, optical connectors and custom

Feb 10, 2026

MPO Connector Series » SENKO Advanced Components, Inc.

SENKO's MPO-PLUS® connector has the lowest insertion loss on the market thanks to its precision ferrules and superior guide-pin

Feb 19, 2026

SC Round Shape Bare Fiber Adapter

This round SC bare fiber adapter is used as a medium to connect bare fiber to your fiber optic equipment. These SC round adapters

Mar 03, 2026

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,

Jan 05, 2026

Fiber Optic Connectors | Connectors, Interconnects | DigiKey

These connectors accept fiber core diameters ranging from 3 μm to 1000 μm . Shop DigiKey's large in-stock selection of Fiber Optic

Feb 15, 2026

Amazon : Fiber Optic Connectors

Online shopping for Connectors - Fiber Optic Products from a great selection at Industrial & Scientific Store.

Aug 22, 2025

Circular Fiber Optic Connectors - Mouser

Mouser offers inventory, pricing, & datasheets for Circular Fiber Optic Connectors.

Oct 02, 2025

Types of Optical Fiber Connectors Often Used

The round head joint adopts the fastening method of the turnbuckle, and the external reinforcement method adopts

Dec 01, 2025

Fiber Optic Connectors - Mouser

Fiber Optic Connectors are in stock with same-day shipping at Mouser from industry leading manufacturers. Mouser is an authorized

Jul 10, 2026

Fiber Optic Connectors | Corning

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

Nov 03, 2025

Fiber Connectors

Key performance characteristics for selecting a connector are discussed, including the insertion loss

Dec 23, 2025

Fiber Connectors

Fiber connectors are connectors used as terminations of optical fiber cables. They are widely used in optical fiber communications

Oct 31, 2025

Fiber Optic Connector Types Explained | FiberCablesDirect

Make sure you're choosing the correct fiber optic connector for peak performance. Learn more about fiber connector types in our guide.

May 06, 2026

Types of Optical Fiber Connectors Often Used

SC type fiber optic connector The large square head joint is the SC type joint, and its outer casing is rectangular, and

Aug 17, 2025

Fiber Connectors

Fiber Optic Connectors are used to connect two runs of fiber optic cable and consist of an adapter assembly along with two plugs.

Jul 07, 2026

Fibre Connector Types for Fibre Optic Cables: A Complete Guide

Fibre Connector Types for Fibre Optic Cables: A Complete Guide A Fibre Connector offers a mechanical means to terminate optical

Oct 02, 2025

Fiber Optic Connector Guide | Fiber Optic Connector Types

Fiber optic connectors are engineered to provide perfect alignment of the microscopic glass fibers used in fiber cables to transmit

Aug 29, 2025

Fiber Optic Connector Types: A Beginners Guide

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

Mar 20, 2026

Fiber Optic Connectors & Ceramic Ferrules | SC, LC, FC, ST, MPO

High-precision Fiber Optic Connectors and Zirconia Ceramic Ferrules for superior network termination. Shop widely used types (SC,

Sep 17, 2025

Fibre Optic Connectors | CORE Cabling

Fibre Connectors Ever find yourself confused with what type of fibre connector you are looking for, or what they look like? Fibre

Dec 27, 2025

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

Aug 24, 2025

Circular Fibre Connectors

Lane Electronics brings together a range of high-performance fibre optic connectors from leading manufacturers EATON Souriau,

Feb 10, 2026

Fiber Optic Connectors Information

Fiber optic connectors are used to align and join two or more fibers together to provide a means for attaching to, or decoupling from,

Nov 23, 2025

Know Your Fiber Connectors

Fiber optic connectors include plugs that feature a protruding ferrule that holds the fiber in place and an associated

Nov 19, 2025

Fiber Optic Connectors | Circular Connectors

Amphenol Fiber Systems International (AFSI) produces the ARINC 801 cylindrical fiber optic connector for

Jun 09, 2026

Circular Fiber Optic Connectors – Mouser

Circular Fiber Optic Connectors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Circular Fiber

Nov 22, 2025

Fiber Connector Types: A Comprehensive Guide 2025

As global demand for high-speed internet, cloud computing, and data center capacity

Dec 29, 2025

101 Series: Know Your Fiber Connectors

Fiber optic connectors include plugs that feature a protruding ferrule that holds the fiber in

Jan 05, 2026

Optical Connectors & Fiber Optics Connectors | Radiall

Suitable for harsh environments and designed for demanding applications where reliability and high

May 10, 2026

Fiber Optic Connectors | MEETOPTICS Academy

The function of fiber optic connectors is to align and connect two or more fibers together to provide a

Feb 11, 2026

Fiber Connector Types: A Comprehensive Guide 2025

Discover the common fiber connector types. Learn the differences, uses, and best practices

Apr 14, 2026

A Complete Guide to the Fiber Optic ST Connector

Explore the fiber optic ST connector with our complete guide. Learn how it works, its key applications, installation

Contact Us

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

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

