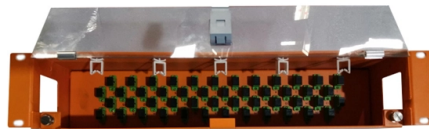


Fiber optic coupler flange FC-APC



AI Overview

An FC-APC fiber optic coupler flange is a precision adapter that aligns and connects angled physical contact (APC) fiber connectors, ensuring low insertion loss and minimal back reflection.

Overview An FC-APC flange serves as a mechanical interface for connecting FC/APC fiber optic connectors to optical components or other fibers. The "APC" (Angled Physical Contact) design features an 8° angled ceramic ferrule, which reduces back reflections by directing reflected light away from the source, achieving typical return losses of up to 60 dB when properly polished (). These flanges are commonly used in single-mode fiber couplers, optical sensors, power meters, and communication networks ().

Design and Materials Fiber optic flanges for FC-APC connectors are typically made from high-quality 304 stainless steel, which is precision-machined, demagnetized, and surface-treated to resist corrosion and reduce ambient light interference (). They often include ceramic alignment sleeves to ensure precise fiber alignment, which is critical for maintaining low insertion loss, typically around 0.25 dB per connection ().

Key Features

- Alignment Keys:** FC/APC connectors have narrow or wide keys (2.0 mm or 2.2 mm) that must match the flange keyway to minimize insertion loss ().
- Low Insertion Loss:** Average additional loss is less than 0.2 dB for high-quality couplers ().
- High Return Loss:** Angled polish reduces back reflection, critical for high-precision optical systems ().
- Durability:** Designed for repeated mating cycles, often exceeding 1000 plug/unplug operations ().
- Mounting Options:** Available in threaded, SM05, SM1, or optical wall series, allowing integration with various optical setups ().

Applications FC-APC flanges are widely used in:

- Fiber optic distribution frames and networks
- Optical power meters and sensors
- Laboratory optical setups requiring free-space coupling
- High-vibration environments where secure threaded connections are needed ()

Practical Considerations Always mate FC-APC connectors with other FC-APC connectors to avoid increased insertion loss (). U...

Article Content

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Discover fiber optic couplers for dependable light signal transmission and networking. Review types and order the right coupler now.

SC UPC to SC APC SC Male to SC Female SM Fiber Optical Adapter Optic ...

More Fiber Optic Coupler/Connector More Fiber Optic Adapter/Converter Fiber style: SM 9/125. 1PCS Fiber Optical Adapter. Couple Female-Female SC to SC. Converter SC/Female to

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Fiber Optic Connector Types – The Ultimate Guide

TL;DR: This guide covers every major fiber optic connector types you'll encounter in the field: LC, SC, ST, FC, and MPO/MTP. You'll learn how to visually identify these fiber optic connector

FC/APC Fiber Connectors: Single Mode

These FC/APC connectors have an 8° pre-angled ceramic ferrule, which when properly polished, results in a typical return loss of 60 dB. Each connector

FC/APC to FC/APC Simplex OS2 Single Mode Square Solid Type

* Die Produktverpackung wird auf recycelbare, umweltfreundliche Kunststoffbeutel umgestellt. Die Produktleistung bleibt unverändert. Be the first to ask a question.

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F-CPL-B14350 Optical Fiber Coupler

All the couplers feature a fully ruggedized black plastic housing with 1 m long, 3 mm PVC covered pigtails. All standard models come non-terminated, FC/UPC, or FC/APC.

FC to LC Type Single Mode Housing Fiber Optic Adapter FC-LC Flange ...

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MECCANIXITY Fiber Optical Coupler FC to FC/APC Round Flange

High call-back-loss, plug and unplug times greater than 1000 times. The isolation effect is good, effectively suppressing the noise of the ground loop and isolating other types of interference

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Fiber Coupler, FC APC

In order to achieve low back reflection values some fiber assemblies utilize a

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SC APC Adapter - Simplex Optical Fiber Connector and Flange Coupler for FTTH Fiber Optic Networks US \$37.10 - 99.44 / Piece 4.9 ddmyaug Free Shipping Fiber Type: Single Mode Connector Type:

StarTech DUPLEXLCAPCNOF fibre optic adapter

StarTech LC to LC Coupler 10 Pack, OS2 Single Mode SC Footprint LC Fiber Optic Coupler without Flange, LC/APC Duplex Adapter, LC/APC, Green, Single-mode, OS2, CE, 4 g

Hj-fiber Customized SC Flange Fiber Optic Coupler

This 2024 model SC port adapter custom flange fiber optic coupler ensures stable network connections in carrier grade equipment using a high-precision SC interface.

FC-APC Fiber Optic Connectors – Mouser

Mouser offers inventory, pricing, & datasheets for FC-APC Fiber Optic Connectors.

Fiber Flanges/Adapters-JCOPTIX MALL

It can achieve mutual conversion between FC/PC, FC/APC, SMA joints and standard C-Mount series threaded joints, and can be used for coupling single-mode and multi-mode fiber couplers and other

FC Connectors and Adapters

The FC connector is available in tunable non-tunable PC versions for flexibility in specific performance requirements. The FC/APC connector system features a tight-fit keyway that possible mis-mating

StarTech LC to LC Coupler 10 Pack, OS2 Single Mode SC ...

StarTech LC to LC Coupler 10 Pack, OS2 Single Mode SC Footprint LC Fiber Optic Coupler Without Flange, LC/APC Duplex Adapter

DE-HCA-S-200M-IN_R14-ER01

The HCA-S-200M-IN photoreceiver consists of an InGaAs photodiode and a subsequent low-noise fixed gain transimpedance amplifier. It is designed for fast conversion of small optical signals into

Fiber Optic Connector Adapters / Fiber Optic Connectors / Connectors ...

Overall, fiber optic connector adapters serve as crucial linkages between connectorized fiber optic cables. They facilitate interconnection, extend cable length, and offer environmental protection,

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