

SC type fiber optic cold connector



AI Overview

SC cold connectors are field-installable fiber optic connectors that terminate cables without fusion splicing, available in SC/APC and SC/UPC variants for high-performance optical networks.

Overview An SC cold connector, also known as a fiber fast connector or mechanical splice, is a field-installable device that allows optical fibers to be terminated quickly without a fusion splicer. It aligns the bare fiber with a short fiber stub inside the connector using mechanical clamping or index-matching gel, enabling optical signal transmission with minimal loss. These connectors are widely used in FTTH deployments, distribution boxes, and emergency repairs due to their fast installation and lower tool requirements compared to fusion splicing.

SC Connector Types

- SC/APC (Angled Physical Contact):** Features an 8° angled endface polish, providing return loss ≥ 60 dB, which minimizes back reflection. This type is standard for GPON, EPON, and CATV networks, where low reflection is critical. The green housing color indicates APC type.
- SC/UPC (Ultra Physical Contact):** Flat polish with return loss ≥ 50 dB, suitable for data centers, enterprise networks, and digital communication systems where reflections are less critical. The blue housing distinguishes it from APC connectors.

Important: APC and UPC connectors are not interchangeable; connecting an APC to a UPC adapter can cause 3–4 dB excess insertion loss and damage the ferrule endfaces.

Technical Specifications

- Ferrule Material:** High-precision ceramic (2.5 mm diameter) for accurate fiber alignment.
- Insertion Loss:** Typically ≤ 0.5 dB, with high-quality connectors around 0.3 dB.
- Durability:** Designed for multiple mating cycles without performance degradation.
- Configuration:** Available in simplex (single fiber) and duplex (dual fiber) variants.

Applications

- FTTH (Fiber to the Home):** SC/APC cold connectors are preferred for PON systems to reduce back reflection.
- Data Centers and Enterprise Networks:** SC/UPC connectors are used where reflections are less critical.
- Emergency Repairs a...**

Article Content

SC UPC Field Installable Fiber Optic Fast Connector For 2.0/3.0mm

SC UPC Single-Mode Fast Connector featured in pre-polished ferrule and pre-embedded for on-site assembly. It offers convenience in field installation with strong stability. For field assembly installer,

FTTH Cold Shut Type Sc/APC Upc Fiber Optic

FTTH Cold Shut Type Sc/APC Upc Fiber Optic Fast/Quick/Field Connector, Find Details and Price about Sc Connector Fast Connector from FTTH Cold Shut

Duogalia-FTTH SC/APC Fiber Quick Connector, Optic Fiber

About this item The package includes 10 pieces SC APC fiber cable quick connector. Easy to install, including fiber guide mechanism, more convenient to wear fiber. Used ceramic core, low insertion

10 PCS SC-UPC Optic Fiber Quick Connector Fast

OTDR Visual Fault Locator,Fiber Optic Power Meter,Fiber Cleaver,Fiber Cleaner,Fiber Stripper Pliers Splitter,Connector Adapter Cable

FTTH Fiber Optic Connectors, Flip-type SC APC Optical

With its sleek design and easy-to-use functionality, the fibre fast connector is an essential tool for professionals, gamers, and anyone seeking a clutter-free

SC Fast Connectors

SC Fast Connectors are pre-assembled, field-installable connectors used in fiber optic networks for quick and efficient termination of optical fibers without the

100Pcs Embedded Optic Fiber Connector, Optic Fiber

About this item UNIQUE DESIGN: Pressure part of the optic fiber connector adopts the unique structural design, no glue, no grinding and no consumable when

A Comprehensive Guide to Fiber Connector Types: LC,

The SC fiber connector, short for square fiber optical connector, features a square push-pull structure with a ferrule diameter of 2.5mm. A spring

FTTH Cold Pressing Sc APC /Upc Fast Connector Best

The SC cold pressing fast connector from Fibconet is a high-quality product specifically designed to facilitate quick and easy fiber terminations.

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

Understanding SFP connector type therefore means knowing when LC is the default choice, how SC fits into existing installations, and how MPO/MTP supports structured, high-density fiber architectures.

Fiber Optic Connector Types: SC, LC, ST, FC, MTP/MPO | Weunion

This in-depth guide explores the technical nuances, applications, and best practices for major fiber connector types—SC, LC, ST, FC, and MTP/MPO—empowering engineers and network

Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important. Read on to learn what fiber optic

Manufacturer 53mm Rapido SC UPC Fast Connector DC 5V Powered

Manufacturer 53mm Rapido SC UPC Fast Connector DC 5V Powered 1x RJ45 FTTH Single Mode Field Assembly Fiber Optic Quick Connector

Understanding Fiber Connector Types ST SC LC FC

For high-performance RF applications like CATV, L-Band, and GPS fiber links, APC connectors (SC/APC) are the best option due to their superior reflection control.

Fiber Fast Connector Buying Guide: SC/APC Cold

Fiber fast connectors (also called mechanical splices or cold connectors) are essential components in FTTH deployments. This

SC Type Fiber Optic Connectors

Features JIS, IEC standards compliant and fully intermateable with NTT's SC products. JIS C 5973 (F04 type fiber optic connectors) IEC 61754-4 Plugs with strain relief boot Long strain relief boot assures

SC-UPC Fast Fiber Connector, Type 10

SC-UPC Fast Fiber Connector, Type 10 also called SC/UPC Fiber Optic Fast connector is a pre-polished field assembly connector that completely eliminates

Optical fiber connector

LC (top) and ST (bottom) optical fiber connectors, both with protective caps in place An optical fiber connector is a device used to link optical fibers, facilitating the

Fiber Fast Connector Buying Guide: SC/APC Cold

SC/UPC cold connectors use ultra-physical contact polish with return loss $\geq 50\text{dB}$. They are suitable for data centers, enterprise networks, and digital

AFC-SCU-B SC/UPC Fiber Optic Fast Connector -AOA

Overview SC Fiber Optic Fast Connector also called SC Fast Fiber Connector or SC Quick Connector, designed for FTTH is a new generation of fiber connector used

SC/UPC Fiber Optic Fast Connector New Look Quick

Product Description This kind of Field Assembly Optical Connector is designed for fast and simple field termination of single fiber, without polishing or epoxy. The

10 Pcs FTTH SC APC Optical Fiber Cable Quick

Description SC APC Fiber optic fast connector. application:CATV,Telecommunication networks. Metro network,Local Area

Fiber Connector Types: A Comprehensive Guide 2025

The SC connector is one of the earliest and most enduring types in the fiber optic world. Known for its square shape and push-pull coupling, SC is

SC Type Fiber Optic Connectors

FC-FC MU-MU Please refer to each connector's page for SC, FC or MU type Connector's detail. Please select connector and cord specification from Table, and contact HIROSE.

Amazon : SC APC Optical Fiber Fast Cold Quickly

Buy SC APC Optical Fiber Fast Cold Quickly Connector Optic Cable Adapter Singlemode 10pcs: Optical - Amazon FREE DELIVERY possible on eligible

Fiber Connector Types: A Complete Guide (2024)

Initially used in Gigabit Ethernet networks, the SC connector was adopted by the TIA-568-A specification in 1991. It has slowly gained popularity as

Optical Fiber Termination Types Chart: SC, LC, FC, ST Comparison

Compare optical fiber termination types, including SC, LC, FC, and ST. View our chart and learn how to choose the right connector for your network.

Fast Connector Cold Connector SC/UPC ESC250D

Mechanical connectors make fiber terminations quick, easy and reliable. These fiber optic connectors offer terminations without any hassles and require no epoxy, no

FTTH Fiber Optic Connectors, Flip-type SC APC Optical

Buy BAUDCOM FTTH Fiber Optic Connectors, Flip-type SC APC Optical Connector, Telecom Level Fast Cold Connector for CATV Network,10pcs:

Fast Connector SC APC UPC Embedded Fiber Optic

10 pcs,US \$0.68/pc ; Tax excluded, add at checkout if applicable

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