

SC-UPC Fiber Optic Connector



Article Overview

An SC/UPC connector is a square, push-pull fiber optic connector with a 2.5 mm ferrule and an Ultra Physical Contact (UPC) polished end-face, designed for low insertion loss and minimal back-reflection.

Overview of SC Connectors

SC stands for Subscriber Connector or Standard Connector, developed in the 1980s by NTT in Japan. It features a square body and a push-pull latch mechanism, making it easy to insert and remove while maintaining precise fiber alignment. The SC connector uses a 2.5 mm ferrule to hold the fiber core, ensuring stable optical performance and repeatable connections. SC connectors are widely used in telecom, CATV, PON networks, and enterprise fiber backbones due to their reliability and ease of handling.

UPC Polish

The UPC (Ultra Physical Contact) polish refers to the end-face geometry of the fiber ferrule, which is slightly convex and highly polished to ensure direct physical contact between fiber cores. This design reduces insertion loss and improves return loss, typically achieving around -50 dB, making it suitable for most digital transmission systems such as Ethernet and GPON. Unlike APC (Angled Physical Contact) connectors, UPC connectors have a flat or slightly curved end-face and are not angled, so they are optimized for digital rather than analog or RF applications.

Key Features...

Article Content

May 29, 2026

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

This post introduces the three connector polish types: PC vs UPC vs APC and gives a comparison of the fiber

Mar 10, 2026

Fast Connectors SC/APC or SC/UPC FTTH Fiber Optical

This fast connectors system with features of high installation quality, high success rate and high reliability. The SC/APC or SC/UPC

Oct 18, 2025

SC Fiber Optic Connectors

SC Fiber Optic Connectors SC fiber optic connectors, single mode,multimode,UPC,APC,PC,2mm,3mm,boot,0.9mm, custom made

Dec 22, 2025

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light

Apr 07, 2026

SC/UPC OM2/OM3/OM4/OM5 Multimode 0.9/2.0/3.0mm Pre-polished

The SC/UPC fast connector are factory pre-polished, field-installable connectors that completely eliminate the need

Aug 05, 2025

FuseLite® Connectors SC Single-mode (OS2) UPC

The FuseLite® Splice-On Connector enables fast, reliable fusion splicing connectivity for local area networks and offers flexibility for

Oct 30, 2025

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

Dec 21, 2025

High-Speed Singlemode Sc Upc Fiber Optic Connector for FTTH

High-Speed Singlemode Sc Upc Fiber Optic Connector for FTTH, Find Details and Price about Fiber Optic Fast Connector Fast

Mar 07, 2026

FTTH Fast Connectors

Fast fiber optic connectors (field assembly fiber optic connectors) is specially designed for FTTH use, we offer the FTTH fast fiber

Feb 02, 2026

SC/UPC Fiber Optical Connector

SC Fiber Optic Connector is a push pull type, gives an audible click when mates into its adaptor and can be tuned in 4 positions to

Mar 12, 2026

GL FIBER Supply SC LC FC ST/APC UPC SX/DX Fiber Optic Connectors.

GL FIBER Supply SC LC FC ST/APC UPC SX/DX Fiber Optic Connectors. GL FIBER" Fiber Optic Connector is a reusable passive

Oct 07, 2025

SC UPC Fast Connector Field Assembly Connector

SC UPC 50mm Field Assembly Fiber Optic Connector Installed in order to ensure the quality and efficiency of

Jun 29, 2026

PC vs UPC vs APC Fiber Connectors – What is the Difference?

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

Feb 15, 2026

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 03, 2026

SC/UPC Fiber Optic Cable Assemblies – Mouser

SC/UPC Fiber Optic Cable Assemblies are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for

Aug 27, 2025

What Is The Difference Between SC APC And SC UPC?

In conclusion, understanding the difference between SC APC and SC UPC connectors is essential for choosing the

Apr 19, 2026

APC, UPC, PC Fiber Connector Types Comparison and Selection

The LC, SC, and FC indicate the different structures of fiber connector types, whereas the UPC and APC indicate

Contact Us

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