

Fiber Optic Splice-Free Connector



Article Overview

Splice-free fiber optic connectors, like FASTConnect®, enable quick, low-loss terminations without fusion splicing, offering reusable, field-installable solutions for single-mode and multimode fibers.

Overview

Splice-free connectors are designed to terminate fiber optic cables without the need for fusion splicing or hand polishing. They use mechanical alignment technology combined with a factory pre-cleaved fiber stub and index-matching gel to ensure precise fiber alignment and low insertion loss immediately upon installation. These connectors are ideal for environments where rapid deployment, flexibility, and minimal specialized equipment are required, such as enterprise networks, FTTx, and LAN applications.

Key Features

- **Low Loss Termination:** Provides immediate low insertion loss comparable to traditional splicing, typically slightly higher than fusion splicing but sufficient for most network applications.
- **Field Installable:** Can be installed on-site without fusion splicers, using simple tools and minimal training.
- **Compatibility:** Supports single-mode and multimode fibers, including 250 μm and 900 μm fibers, as well as 900 μm , 2 mm, and 3 mm cordage.
- **Connector Types:** Available in LC, SC, and ST formats, color-coded for easy identification

Article Content

Feb 03, 2026

Complete Guide to Fiber Optic Connectors and Splicing

This article provides an overview of fiber optic connectors, splicing techniques, and maintenance practices. It explains

May 01, 2026

The FOA Reference For Fiber Optics

Fiber optic joints or terminations are made two ways: 1) splices which create a permanent joint between

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Mechanical-Splice Connectors

Mechanical Splice-On Connectors Brilliant in design and universal in implementation, FiberExpress (FX) Brilliance Universal

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The FOA Reference For Fiber Optics

Fusion Splicing Fusion splicing is the process of fusing or welding two fibers together usually by an electric arc. Fusion splicing is the

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Fiber Optic Connectors

Cut your installation time in half with our LC pre-polished fiber optic connector. Ideal for fast repairs, data center connections, and

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Connectors, Interconnects | Fiber Optic Connectors

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UniCam® Fiber Optic Connectors | Mechanical Splice Technology

Corning invented "no-epoxy/no-polish" (NENP) fiber optic connector mechanical splice technology. The UniCam connector remains

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Fiber Optic Splicing: A Complete Guide | Jonard Tools

In the ever-evolving world of high-speed connectivity, fiber optic technology serves as the backbone of

Jan 05, 2026

Fiber Optic Connectors | Corning

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

Dec 19, 2025

Fiber Optic Cable Splicing Methods: A Practical Guide

While this guide provides a solid overview of fiber optic cable splicing, the successful execution of these methods

Apr 21, 2026

Optical Fibre Splices, Couplers and Connectors | PPTX

The document provides an overview of optical splices, connectors, and couplers, detailing their functions in fiber-optic

Oct 06, 2025

Fusion splicing

Fusion splicing is the act of joining two optical fibers end-to-end. The goal is to fuse the two fibers together

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Fiber Optic Fusion Splice-on Connector | Fast Connector | Field ...

LongXing Fast connectors make fiber terminations fast, easy and reliable. These fiber optic connectors offer terminations without any

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Amazon : Fiber Optic Connectors

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

Dec 10, 2025

Fibre Optic Termination Techniques – Wray Castle

Many pre-polished connector systems internally use a miniature mechanical splice with gel, applying the same

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FOA Lesson Plan: #7, Terminations and Splices

In this lesson, a long and very important one, you will learn about fiber splicing and termination. Fiber optic joints or terminations are

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Splice.me | Create fiber splice diagrams in seconds

Fastest and most user-friendly fiber optic Network Management Software. Create fiber splice diagrams in few clicks and save weeks

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Fiber Connectors

Increase ROI on fiber projects by selecting field-terminated fiber connectors that don't require intensive training or tooling expenses.

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Fiber Optic Enclosures & Outdoor Splice Closures | Multilink

Get Fiber Optic Closures from Multilink. We have custom developed and standard terminals for fast and effective hookup and

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OPTICAL SPLICES, CONNECTORS, AND COUPLERS

A fiber optic splice is a permanent fiber joint whose purpose is to establish an optical connection between two individual optical

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Fusion Splice-On Connectors

Fusion Splice-On Connectors Belden's FiberExpress (FX) Fusion Splice-On Connectors enable splice-on technology. They combine

Dec 17, 2025

FASTConnect Mechanical Fiber Connectors | AFL Global

FASTConnect® field-installable connectors are factory pre-polished connectors that completely eliminate

Mar 04, 2026

Fiber Joints – connectors, alignment tolerances, coupling loss, single ...

Fiber joints are permanent or removable connections between multimode or single-mode fiber ends. Coupling losses depend

Oct 30, 2025

Everything you need to know about fiber optic termination

Different connectors and splice termination procedures are used for singlemode and multimode connectors, so make sure you know

Mar 09, 2026

The FOA Reference For Fiber Optics -Mechanical Splices

Mechanical Splices Splices, from left, fusion splice, Elastomeric, Ultrasplice, Camlock, FiberLok, AT& T Rotary Splice Mechanical

Contact Us

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