

What to do if the fiber splicing machine fails to connect the pigtail



Overview

Inaccurate fibre alignment can lead to high splice loss and unreliable connections. If an error code appears, consult the user manual's troubleshooting section. Fibre fusion splicers are critical instruments in modern optical fibre installation and maintenance. When properly maintained and operated, they produce low-loss, high-strength splices. To counteract these errors, technicians can go through the following troubleshooting checklists: Perform an Arc Test: Before splicing, it's important to perform. While the Sangken Splicing machines are designed for high-precision work, even the best equipment requires proper troubleshooting when splices fall outside of spec. Here. However, if the splices and slack are placed into the splice tray without properly following the tray's cable guides, it could result in exceeding the bend radius of the fiber. To locate this type of stress, you may need to test at two wavelengths – 850 and 1300nm for multimode and 1310 and 1550.



Article Content

Aug 31, 2025

Fusion Splicing Issues Explained – Causes and Prevention

Learn how to identify fusion splicing issues, understand their causes, prevent splice errors through proper preparation and arc calibration.

May 07, 2026

How To Do Fiber Splicing?

How To Do Fiber Splicing? A Comprehensive Guide Fiber splicing involves joining two optical fibers end-to-end using heat to create a permanent connection with minimal light loss, and

Sep 01, 2025

Why Fiber Splicing Fails — And How to Fix It. A

In this edition of our LinkedIn Newsletter, we break down the four biggest reasons fiber splicing fails and how you can fix them instantly.

Dec 18, 2025

101 Series: Know When to Splice & Where Not to

Fiber splicing is a method of connecting two fibers, whereby two fibers are precisely cleaved and then aligned and fused using a fusion splicing machine. The fusion

Nov 20, 2025

Fiber Optic Fusion Splicing Guide: From Safety to Troubleshooting

Learn Fiber Optic Fusion Splicing: step-by-step guide to safe, precise fiber prep, fusion, and testing for low-loss, high-quality

Feb 10, 2026

Common Problems That Arise When Using a Fusion Splicer:

Learn how to identify and troubleshoot common problems that may arise when using a fusion splicer. Discover tips on safety, quick fixes, and more.

Feb 08, 2026

14 Common Problems and Solutions When Using Fiber

14 Common Problems and Solutions When Using Fiber Fusion Splicers Have some problems when using fiber fusion splicer? Here are the solutions, wish it helpful

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The Complete Step-by-Step Guide to Fiber Optic Splicing

In this guide, we cover the basics of fiber optic splicing, how to perform splicing using two different methods, and finally some best practices to perform good

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Technical guide: Most common problems in fiber optic fusion splicers

"Discover the most common problems with fiber optic fusion splicers and how to solve them. Technical guide with symptoms, diagnosis, and preventive maintenance to guarantee high-quality splices."

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Fiber Optic Cable Splicing: A Comprehensive Guide

To support integrators, here's an easy to follow guide for fiber optic cable splicing discussing mechanical splicing and fusion splicing.

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Complete Guide to Fiber Optic Connectors and Splicing

Fiber optic splicing, reliable fiber optic connectors, and proper installation and maintenance practices form the foundation of a resilient fiber network. By selecting the correct fiber

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Fiber Optic Splicing: A Beginner's Guide

Fiber optic splicing joins two fiber optic cables end to end seamlessly to create a continuous path for light signal, including mechanical and fusion

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Guide to Fiber Optic Cable Splicing

Understanding the ins and outs of fiber optic cable splicing can improve the management of these cables and ensure reliable performance over time. At

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14 Common Problems and Solutions When Using Fiber

The fusion splicers cannot be welded normally, indicating that the fusion fails and a red alarm appears. The cause of the fault can be analyzed from the following

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Electrodes Replaced, But Splicer Still Failing? Discover the Real ...

In this expert guide, we'll dive into the real reasons your fiber splicer may still fail and provide practical fusion splicer troubleshooting tips that work across all models—whether you're

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Troubleshooting Fusion Splicer Problems: Why Aren't Your Fibres

Are you struggling with fusion splicing? Learn common reasons why fibres may not fuse properly in your fusion splicer and how to fix them with our expert troubleshooting tips.

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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 modern communication networks. From massive data

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Fiber Fusion Splicer Troubleshooting with OptiFiber Pro

With a good quality cleave and a fusion splice machine, it's easy to achieve a proper splice. However, if the splices and slack are placed into the

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Common Splicing Machine Failures and Solutions

- Possible Causes: Blade wear, foreign object obstruction, insufficient air pressure. - Solutions: Replace blade, clean debris, check air circuit. 2. Tape Misalignment/Positioning Error. -

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Fiber-Optic Cable Splicing

Fiber-Optic Cable Splicing The article discusses the methods, tools, and challenges involved in fiber-optic cable splicing, including fusion splicing, cleaving, and

Aug 19, 2025

Fusion Splicer Troubleshooting: Maximize Quality

When fusion splicing in the field, a number of issues can arise, causing equipment errors and faulty splices, leading to high splice loss. To

Sep 27, 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 requires extensive training, hands-on experience, and a significant

Dec 22, 2025

Fiber Splicer Common Troubleshooting Guide: Ensure ...

To help you stay efficient and avoid unnecessary downtime, we've compiled a list of common splicing problems and solutions to ensure every splice is successful.

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How to solve these six problems encountered in the process of optical ...

After the optical fiber is spliced, when fixing it in the splice box, handle it gently to ensure that the optical fiber is above the minimum bending radius.

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How to Avoid Common Fiber Optic Splicing Errors

Learn how to splice fiber optic cables with precision and quality. Avoid splicing errors that can affect network performance and safety.

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Common Fusion Splicer Problems and How to Fix Them

Struggling with fibre fusion splicer problems? Learn how to fix high splice loss, misalignment, electrode issues, and cleaving errors with step-by

Apr 12, 2026

Fiber Optic Cable Splicing Explained

Splicing in optical fiber is the joining two fiber optic cables together. There are 2 methods of cable splicing, mechanical or fusion.

May 09, 2026

Common Fusion Splicing Problems and How to Fix Them

Troubleshoot and fix common Fusion Splicing Problems like high loss and arc errors. Learn how to ensure perfect fiber installs.

Mar 15, 2026

Fiber Optic Splicing Types, Methods, and Applications

Fiber optic splicing is essential for building and maintaining reliable, high-speed communication networks. By understanding its types, methods, and real-world

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