

How to install Huijue fiber optic fusion splice box

Article Overview

Installing a Huijue fiber optic fusion splice box involves careful preparation of fibers, proper placement in the splice tray, and secure splicing to ensure low-loss, durable connections.

Step 1: Prepare Your Workspace and Safety

Before starting, ensure your workspace is clean, well-lit, and free of static electricity. Wear safety goggles and cut-resistant gloves to protect against fiber shards and the high-temperature fusion arc. Use an anti-static mat or wrist strap to prevent damage to the splicer electronics. Verify that your fusion splicer is fully charged or connected to stable AC power, and that electrodes and tools are clean and functional .

Step 2: Prepare the Fiber Optic Cables

- o Strip the outer jacket of the fiber cable using a cable splitter, exposing 3-5 cm of the buffer tube.
- o Remove the coating (typically 250um for single-mode fibers) using a precision fiber stripper, applying uniform pressure to avoid microfractures .
- o Clean the fiber with an IPA-soaked lint-free wipe, sliding it toward the fiber end until it squeaks, indicating it is free of oils and debris .
- o Cleave the fiber using a precision cleaver to produce a flat, mirror-like end surface. Proper cleaving is critical to minimize splice loss .

Step 3: Install Fibers into the Splice Box

- o Open the Huijue splice box and locate the splice tray.
- o Place each prepared fiber into the V-groove or clamp of the tray, ensuring fibers are straight and not under tension. Maintain a minimum bending radius of 30 mm to prevent microbending losses .
- o If using splice protection sleeves, slide them onto the fiber before splicing.

Step 4: Perform Fusion Splicing

- o Align the fiber ends in the fusion splicer according to the manufacturer's instructions.
- o Activate the splicer to create an electric arc, fusing the fibers together. The splicer will automatically check for alignment and splice quality .
- o Once the splice is complete, carefully slide the protection sleeve over the fused joint and place it into the splice tray.

Step 5: Organize and Secure Fibers

- o Route the fibers neatly within the splice tray, using the fiber management clips or channels provided in the Huijue box.
- o Coil any excess fiber carefully to avoid sharp bends.



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o Close the splice tray cover and secure the box lid to protect the splices from dust, moisture, and mechanical stress.

Step 6: Final Checks

- o Inspect each splice visually or with a fiber inspection microscope to ensure proper alignment and minimal loss.
- o Test the fiber continuity and insertion loss using an OTDR or power meter to confirm network performance.
- o Label each fiber for easy identification and future maintenance. By following these steps, you ensure that your Huijue fiber optic fusion splice box is installed safely, with high-quality, low-loss splices that maintain long-term network reliability .

This lab is designed to introduce the student to the theory and practice of fusion splicing fiber optics. The student will learn what a

Step-by-step splice box fiber optic installation 1. cassette installation: Position the splice

Part of UTEL"s Knowledge Base series of videos about fiber optics, this guide provides a

Splicing fiber optic cable is the single critical skill to acquire when learning to install, maintain, and repair this new

In this video tutorial you can learn in less than 5 minutes how to fusion splice two optical

Installation instructions for splice-on FuseConnect SC connector on 900um tight

Quickly learn how to properly splice an optical fiber into a standard splicing tray. This

3.0 INSTALLING SPLICE TRAY AND FIBER 3.1 Install the splice holders, fusion or mechanical to base of FST24 splice tray. 3.2

Learn Fiber Optic Fusion Splicing: step-by-step guide to safe, precise fiber

In this tutorial, we will show you how to fusion splice two fiber optic strands together in

Fiber optic splice closure plays a crucial role in the installation and maintenance of fiber optic networks. In this article,

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No eating or drinking, smoking either. A note on fusion splicing: The electric arc used to splice fibers can cause explosions if

Wirewerks Optical Fiber Splice-On Connectors combine the performance and reliability

Learn how to perform mechanical fiber cable splicing inside fiber enclosures using fiber splice trays. This step-by-step

Guide for proper splicing of fiber optic fibers Splicing has become an integral part, especially in the field of electrical installations. Find

We have different types of joint closure fiber optic boxes. You can click and check the details of our splice enclosure types below. If

Web: <https://www.in-au.co.za>

