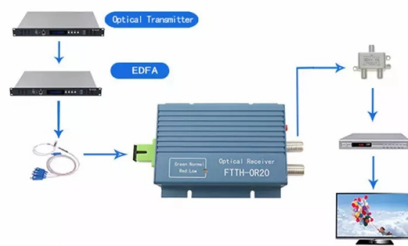


How to use a fiber optic fusion splicer quickly



Summary of Content

Using a fiber optic fusion splicer involves careful preparation, precise alignment, and controlled fusion to create low-loss, permanent fiber connections.

Step 1: Safety and Workspace Preparation

Before starting, ensure your workspace is clean and well-lit. Wear industrial safety goggles and cut-resistant gloves to protect against glass shards and the high-temperature fusion arc, which can exceed 5,000°C. Use a fiber waste container or vacuum device to safely dispose of fiber scraps. Minimize static electricity by using anti-static wrist straps or mats, as static can damage the splicer electronics .

Step 2: Fiber Preparation

- **Strip the Fiber:** Remove the outer jacket (typically 3–5 cm) and the acrylate coating using a precision fiber stripper. Apply uniform pressure to avoid microfractures .
- **Clean the Fiber:** Wipe the bare fiber with a lint-free wipe soaked in isopropyl alcohol (IPA) until it squeaks, indicating it is free of contaminants .
- **Cleave the Fiber:** Use a precision cleaver to create a flat, perpendicular end-face. A cleave angle under 1° is ideal; poor cleaving can cause high splice loss or failure .

Step 3: Splicer Setup and Fiber Alignment

- **Open the fusion splicer's lid and place each fiber into the V-groove clamps.** Ensure the fibers are properly seated and aligned according to the splicer's instructions .

Article Content

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

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For successful Fusion Splicer, you need a cleaver for accurate cuts, strippers to remove protective coatings, and a

Steps and precautions for using a fusion splicer

Insert the fiber into the splicer, align it, and start the fusion process, which takes about 15 seconds. Perform a

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