

Cold splicing installation of Type 86 fiber optic panel



AI Overview

Cold splicing in a Type 86 fiber optic panel involves mechanically joining fibers using a cold connector, ensuring proper alignment, minimal signal loss, and secure mechanical fixation.

Step-by-Step Cold Splicing Procedure

- Prepare the Cold Connector Install the cold connector into the Type 86 panel, ensuring the snap rings on both sides are properly positioned and the middle slot is ready to receive the fibers .
- Strip and Clean the Fiber Ends Strip approximately 3 cm of the fiber coating from each end. Clean the exposed fiber with alcohol to remove any debris or contaminants .
- Cut the Fiber to Length Using a precision fiber cleaver, cut each stripped fiber to about 1.4 cm. Ensure the cut is clean and perpendicular to the fiber axis to minimize insertion loss .
- Insert Fibers into the Cold Connector Insert one fiber end into the cold connector, then repeat for the other fiber. Make sure the bare fibers are properly seated in the snap ring in the middle of the connector .
- Secure the Snap Rings Push the snap rings on both sides tightly to lock the fibers in place. This ensures mechanical stability and proper optical alignment .
- Test the Connection After installation, test the splice for optical continuity and insertion loss. Properly installed cold splices typically have slightly higher loss than fusion splices (around 0.3 dB), but are suitable for temporary or quick installations

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Standard for Installing and Testing Fiber Optics

Fiber optic cables installed without connectors may be terminated by field termination by installing connectors onto the fibers using

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Optical Fiber Cable Optical Fiber Cable In

3.8 Splicing Optical Fibers r connectorization. After jacket materials, strength members and buffer tubes have been cut to the

Contact Us

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