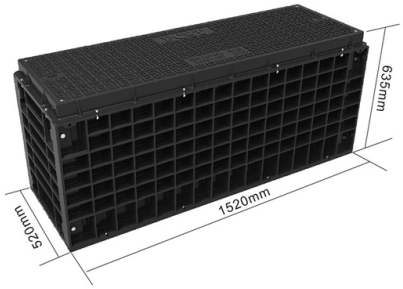
How to connect a cold-joint splice to a dual-core connector



Overview

That is usually done for permanent connections, but it may be possible to dismantle a splice without spoiling the fiber ends. Another technique is fusion splicing, where the fibers are fused together, e.g.

Key Takeaways

To connect a cold-joint splice to a dual-core connector, carefully prepare the fibers, insert them into the mechanical splicing mechanism, and secure them using the locking elements to ensure a reliable connection.

Step-by-

Step Procedure1.

Prepare the Cable and Tools

Gather the dual-core connector, cold-joint splice, fiber strippers, fiber cleaver, cleaning tools, and protective boots. Ensure the workspace is clean to prevent contamination, as dust can significantly affect performance. 2.

Strip and Clean the Fibers

Strip the outer sheath of the dual-core cable to expose the individual fibers. Clean the bare fibers with alcohol wipes to remove any debris or coating residue. Use a fiber cleaver to cut the fibers to the appropriate length, typically around 1.

4–3 cm depending on the connector specifications. 3. Insert Fibers into the Cold-Joint ConnectorSlide the connector boot onto the cable before inserting the fibers.

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Open the V-shaped groove in the mechanical splicing mechanism using the wedge-shaped clamp. Carefully insert each fiber into the groove, ensuring proper alignment with the pre-polished ferrule. Avoid forcing the fiber to prevent breakage or misalignment.

4.

Lock the Fibers in Place

Press the gland or clamping element to secure the fibers in the V-groove. Remove the wedge clip to finalize the mechanical lock. Ensure both fibers are firmly held and that the splice is stable.

5.

Final Assembly

Slide the connector boot over the cold-joint splice to provide strain relief and protection. Inspect the connection visually and, if possible, test for optical loss or continuity to confirm proper alignment.

Precautions and Best Practices

Keep the connector and fibers away from dust and contaminants until installation is complete. Use an automatic fiber cleaver for precise cuts to minimize splice loss. Insert fibers slowly and carefully to avoid damaging the fiber ends, which can degrade transmission performance.

Test the connection after assembly to ensure low-loss and reliable operation. By following these steps, a cold-joint splice can be effectively connected to a dual-core connector, providing a secure, low-loss optical or electrical connection suitable for field installations.

Article Content

Optical Fiber Cold Splicing and Fusion Splicing

There are generally two forms of cold splicing: the first is the on-site quick connector of the end; the second is the cold splicing of the optical fiber

Optical fiber termination methods hot welding, cold joint,

Not only are the connection methods and costs different, but the size of the connection loss will also vary, so please choose the appropriate

Fiber optic quick connector cold joint

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The principle of the preset optical fiber quick connector/cold joint is described in detail below: the preset optical fiber is glued in the ferrule, and the

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