

How to melt and coil fusible fiber

Article Overview

Fusible fiber is melted using a fusion splicer and then carefully coiled with a protective sleeve to maintain integrity and prevent signal loss.

Preparing the Fiber

Before melting, the fiber must be stripped of its outer coatings to expose the bare core and cladding. Use a fiber stripper to remove the buffer layers, typically 3–5 cm in length, and clean the fiber with alcohol and a dust-free cloth to remove debris and contaminants, as any residue can compromise the splice quality . Insert a fiber protection sleeve onto the fiber before stripping, as it cannot be added after splicing .

Melting the Fiber

The actual fusion process involves aligning the fiber ends in a fusion splicer and applying a localized heat source, usually an electric arc, to melt the fiber tips . The steps are:

- Cleaving the fiber ends with a fiber cleaver to create smooth, perpendicular surfaces.
- Aligning the fibers in the splicer, ensuring the cores are precisely matched.
- Activating the splicer to generate a short electric arc that melts the fiber ends.
- Fusing the fibers by gently bringing the melted ends together to form a seamless joint .

Coiling the Fiber...



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