

How to coil 4-core fiber optic cable into a fusion splice box



AI Overview

Properly coiling 4-core fiber optic cable in a fusion splice box requires maintaining the minimum bend radius, organizing fibers neatly, and securing them with splice trays or holders to prevent signal loss and damage.

Step-by-Step Guide

- 1. Prepare the Fibers for Splicing** Strip the outer jacket of the 4-core cable carefully, exposing each fiber core without applying tension. Remove the acrylate coating using a precision fiber stripper, then clean each fiber with 99% isopropyl alcohol and lint-free wipes to avoid contamination. Cleave each fiber with a precision cleaver to ensure a flat, mirror-like end-face for low-loss fusion splicing.
- 2. Perform Fusion Splicing** Insert each prepared fiber into the fusion splicer's V-groove, aligning the cores precisely. Run the splicing cycle and apply a heat-shrink splice protection sleeve to reinforce the joint. Repeat for all four cores, ensuring each splice is verified for minimal loss.
- 3. Plan the Coil Layout** Before coiling, check the minimum bend radius for your fiber type (typically >30 mm for single-mode fibers). Arrange the fibers in the splice tray so that each core follows a smooth, circular path without crossing or overlapping excessively. Avoid sharp bends or kinks, which can increase attenuation or damage the fiber.
- 4. Coil the Fibers** Gently coil each fiber into the designated tray slots or loops. For a 4-core cable, you can coil each fiber individually or in pairs, depending on the tray design. Maintain consistent loop diameters and ensure that the fibers do not touch the tray edges or each other under tension. Use the tray's built-in guides or clips to secure the loops.
- 5. Secure and Protect** Once coiled, place the heat-shrink sleeves and any excess fiber into the tray's protective compartments. Close the splice tray cover carefully, ensuring no fibers are pinched. If the splice box has multiple layers, stack trays neatly and label each fiber for future maintenance.
- 6. Final Check** Verif...

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