Price of Two-Core Fiber Optic Cold Connector Connection Method

Article Overview

Two-core fiber optic cold connectors typically cost between $1 and $5 per connector, and they use a mechanical alignment method with adhesive or index-matching gel for quick, tool-free installation.

Connection Method

A cold connector (mechanical joint) allows two optical fibers to be joined without heat or fusion splicing. The general steps for connecting a two-core fiber are as follows:

• Prepare the fibers: Strip about 3 cm of the fiber coating from both ends and clean with alcohol to remove debris and oils .

• Install the cold connector: Snap the connector housing in place, ensuring the internal alignment mechanism is ready .

• Insert fibers: Place each stripped fiber into the connector slots, aligning the cores precisely. The connector often uses snap rings or a precision alignment sleeve to hold fibers in position .

• Secure the connection: Apply fiber matching gel or adhesive inside the connector to reduce signal loss and lock the fibers in place .

• Test the connection: Verify signal transmission and ensure minimal insertion loss, typically around 0.2–0.5 dB for mechanical connectors . This method is fast, does not require power or fusion equipment, and is suitable for field installations, emergency repairs, or low-budget projects . However, the connection loss is slightly higher than fusion splicing, which usually has 0.01–0.05 dB loss.

Article Content

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It is used to connect optical fiber or optical fiber butt pigtail, which is equivalent to making a joint (fiber butt pigtail refers

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