Cold Connector Fiber Optic Red Head

Article Overview

A cold connector, often red-headed, is a mechanical fiber optic connector that enables quick, tool-less fiber termination without fusion splicing.

Overview

A cold connector (also called a fiber optic quick connector or mechanical splice connector) allows two optical fibers to be joined mechanically rather than by fusion splicing, completing the connection in just a few minutes . The "red head" typically refers to the color-coded housing used for easy identification and standard compliance . These connectors are widely used in FTTH deployments, LANs, and optical cable repairs.

Key Features

o Fast Installation: No fusion splicing or hand polishing required; the connection is completed mechanically in under 2 minutes .
o High Precision: Metal V-groove design ensures accurate fiber alignment and low optical loss .
o Compatibility: Works with 250 um and 900 um fibers, and can accommodate various cordage sizes including 2 mm and 3 mm .
o Durability: Long life cycle with simple maintenance; suitable for repeated connections and disconnections .
o Color Coding: Red heads help identify connector type or fiber mode (single-mode or multimode) during installation .

Applications

o FTTH (Fiber to the Home): Quick deployment of subscriber connections.
o Optical Cable Repair: Rapid restoration of broken or damaged fibers.
o Enterprise and Data Centers: Tool-less terminations for high-density fiber networks.

Installation Process
o Prepare the fiber: Strip and clean the fiber to expose the core.
o Insert into connector: Place the fiber into the cold connector's V-groove.
o Secure the connection: Close the mechanical clamp or wedge; the fiber is aligned and held in place.
o Test: Use a visual fault locator or VFI to confirm proper physical contact and low insertion loss .

Advantages

o Eliminates the need for expensive fusion splicing equipment.
o Reduces installation time and labor costs.

o Provides reliable, low-loss connections suitable for both single-mode and multimode fibers. Cold connectors with red heads are an ideal solution for rapid, field-installable fiber terminations, offering precision, convenience, and compatibility across multiple fiber types and network applications .

10 pcs,US $0.98/pc ; Tax excluded, add at checkout if applicable

A fiber fast connector, also known as a mechanical splice or cold connector, is a field

The issue of optical connector performance is a source of great confusion to many of our customers - you are not alone! Therefore,

About this item 7S Fiber Cleaver:High precision stripping tool Fiber optic cable cutter Automatic tool

What is Fiber Cold Splice? The fiber quick splicing connector is also called field assembly connector, means only use simple splicing

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

Fiber Optic Mechanical Splice L925bp Drop Cable Splice Fast Fiber Cold Connector, Find Details and Price about Fiber Optic and

KELUSHI 10pcs Fiber Optic Mechanical Splice FTTH Fast Connector Adapter for FTTH Fiber Cold Connection Quick look

Proven mechanical splice technology ensuring precision fiber alignment, a factory pre-cleaved fiber stub

Mouser offers inventory, pricing, & datasheets for Red Fiber Optic Connectors.

Upgrade your network performance with our professional-grade Fiber Optic Connectors. Featuring high

It is a precise coupling device that joins fiber optic cables quickly, enabling faster

These connectors accept fiber core diameters ranging from 3 µm to 1000 µm. Shop DigiKey"s large in-stock selection of Fiber Optic

When inserting the optical fiber into the optical fiber quick connector/cold splice, it should be inserted slowly to prevent

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ADVANTAGES: This fast cold connector has high return loss and low insertion loss, which make the connector more and wear

COLD CONNECTION PERFORMANCE: Performs reliably in various cold environments, withstanding extreme temperatures for

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