

Dual-core optical cable tie



Summary of Content

A dual-core optical cable tie is a fiber optic cable assembly designed to manage and connect two optical cores within a single cable, often used for high-speed data or telecom applications.

What is a Dual-Core Fiber?

A dual-core fiber contains two separate optical cores within a single fiber cladding, allowing light to propagate independently through each core. This design enables higher data capacity and redundancy in optical networks compared to single-core fibers. Dual-core fibers can be fabricated using all-glass preforms or photonic crystal fiber technology, and each core can act as a separate waveguide, though mode coupling may occur if the cores are very close together .

Dual-Core Optical Cable Tie

A dual-core optical cable tie typically refers to a pre-terminated or connectorized cable assembly that bundles and organizes dual-core fibers for easy deployment. These tie cables are commonly used in data centers, backbone networks, and telecom exchanges to connect equipment efficiently while minimizing optical loss . Key features include:

- Connector types: Customizable to match network equipment (e.g., LC, SC, MTP/MPO)
- Cable specifications: Can include gas-blocking, armored protection, or specific breakout lengths
- Mounting options: Adjustable brackets for secure installation in racks or cabinets

Article Content

Optical Duplex Patchcords with various types of

Optical Duplex patch cords with various types of connectors (ST, LC, SC) available in single-mode or multi

Tectran 936-135 Cable Tie 13 in. Length X 0.5 in. Width, Black, Dual

Dual head centered on strap provides parallel separation between two bundles, preventing chaffing and abrasion. Optional mounting

Multi-core Fibers – dual core, twisted, space division multiplexing ...

Multi-core fibers enable space division multiplexing (SDM) by providing multiple parallel spatial channels (the cores) within a single

Optical Duplex Patchcords with various types of connectors (ST, LC, SC)

Optical Duplex patch cords with various types of connectors (ST, LC, SC) available in single-mode or multi-mode fibre version

Dual Loop Cable Ties

Advanced Cable Ties" dual loop cable ties are designed to mount and wrap two separate bundles of hoses, wires,

Cable Ties

Shop Now. International distributor for fiber optic components, equipment and accessories while providing invaluable technical

opticalCON DUO

Ideal for audio and broadcast networks. The opticalCON DUO cable connector accommodates a standard optical LC-Duplex

Connectorised Multicore Optical Fibre Tie Cables

Our tie cables can be fully tailored to your requirements including (but not limited to); connector type, cable specification, breakout

MTP-MTP Pre-Terminated Multicore Cable Assemblies

Molex Pre-Terminated Multicore Fiber Optic Cable Assemblies offer premium factory-controlled optical performance on a variety of

SPEEDWRAP® FIBERTie™ Straight Strips

These hook and loop fasteners offer a reusable and adjustable cable management solution. The self-gripping fastener's unique

Amazon : Double Loop Cable Ties

Contains at least 50% recycled material. Global Recycled Standard (GRS) certified products contain recycled content that has been

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