

Fiber Optic Cable Connector MDC



AI Overview

The MDC (Miniature Duplex Connector) is a high-density, very small form factor fiber optic connector designed to triple the density of LC connectors while maintaining reliable performance.

Overview

The MDC connector is a duplex (two-fiber) optical connector that uses 1.25mm ferrules, the same as LC connectors, but in a smaller footprint, making it ideal for high-density applications in data centers, telecom, and hyperscale networks . It is part of the Very Small Form Factor (VSFF) family, designed to maximize fiber density without compromising optical performance or reliability .

Key Features

- **High Density:** MDC connectors allow three times the fiber density of LC connectors, supporting up to 216 duplex connectors (432 fibers) per 1RU panel .
- **Transceiver Compatibility:** Supports multiple MDC cables in modern transceivers, including four cables in QSFP-DD or OSFP modules and two cables in SFP-DD modules .
- **Push-Pull Boot:** The DirectConec™ push-pull boot enables easy insertion and removal in dense panels without affecting neighboring connectors .
- **Polarity Management:** Polarity can be changed in the field or factory without tools, preventing fiber damage and simplifying reconfiguration .
- **Adapter Options:** Three-port MDC adapters fit standard LC panel openings, allowing seamless integration and high-density deployment .

Article Content

MDC Connector Solutions | Telecommunication Systems Business Unit

Fujikura's MDC connector delivers three times the density of LC. With DirectConec™ technology and easy polarity conversion, it

ELiMENT® MDC Connecto

ELiMENT® MDC Connector US Conec's ELiMENT® MDC connector is a Very Small Form Factor (VSFF) duplex optical connector

What is Mini Duplex Connector (MDC)

MDC Mini Duplex Connector is the latest connector US Conec showcase in OFC2019, it is the latest form factor and a joint effort

MDC Connectors

The MDC is a two fiber very small form factor connector manufactured with proven 1.25mm ferrule technology used in industry

MDC® Connectors

Discover Cablcon's MDC connectors, leading the way in fiber optic connector technology. Request a quote.

MDC and CS Connectors: High-Density Fiber for 400G/800G Networks

Introduction: Why new fiber connectors are needed? As networks move from 100G to 400G and 800G, one challenge

MDC® Cable Assemblies

MDC® Cable Assemblies Working in close collaboration with our customer, Optec, certified by USConec® as an approved

MDC Connector

: The MDC connector can be used in fiber optic patch panels and distribution frames, where efficient fiber

Exploring the Applications of Mini Duplex Connector in Cable Assemblies

Discover the key features, specifications, and benefits of Mini Duplex Connector (MDC) in cable assemblies. Learn

Fiber Connector Types: A Complete Guide (2024)

The fiber connector is called a fiber optic or optical fiber connector. It is a precise coupling device that joins fiber optic

Data Center Connectivity Supplier | MDC/SN

Data Center Connectivity Best Datacom's Fiber Optic Systems are designed for Enterprise Data Centers, Cloud, Managed Facilities,

MDC/MMC Solutions | Telecommunication Systems Business Unit

Next-generation ultra-compact optical connectors for high-density cabling in data centers and similar environments. They achieve

MDC Connector

Designed to accommodate cables with up to 2.0mm outer diameter (OD), the MDC connector supports various cable

What is MDC Connector: A Beginner's Guide

What is an MDC connector? MDC connector, Mini Duplex Connector, a two-fiber Very Small Form Factor (VSFF)

The Evolution of Fiber Optic Connectors: From the First Generation to ...

Fiber-optic communication has transformed the way the world moves data. But behind every high-performance optical

MDC / SN Cable Assemblies

Testing of MDC and SN cable assemblies should be performed with power meters to check for expected loss budgets. There should

MDC Connector | FO Connector

The MDC plug connector allows users to increase the port density per 19" height unit (HU) in data centre optical fibre cabling

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://kilitech.co.za>

Email: info@kilitech.co.za

Phone: +44 20 7183 2649

Address: 1st Floor, The Shard, 32 London Bridge Street, London, SE1 9SG,
United Kingdom

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