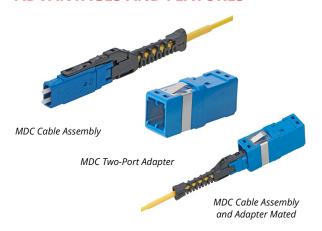


MDC Adapters and Cable Assemblies >

MDC connectors, cable assemblies, patch panels and cassettes deliver optimized fiber density for high-performance applications, combining proven 1.25mm ferrule technology with revolutionary US Conec DirectConec[™] push-pull boot technology to maximize space while ensuring reliable operation and simplifying installation and maintenance.

ADVANTAGES AND FEATURES



Fiber Types	Single-mode, multi-mode
Standards	GR-326, TIA-568, IEC Attenuation Grade B
Drop-in Replacement	Duplex LC adapters
Adapter Ports	2, 3, 4
Cable Outside Diameter	1.60 to 2.00mm
Operating Temperatures	-18 to +70°C

Helps meet demand for increased bandwidth with greater fiber count in less space

The compact design offers approximately 50% space savings compared with traditional LC connectors.

Simplifies mating and access to individual connectors

DirectConec push-pull boot technology makes mating/unmating easy.

Reduces changeover requirements for upgrading patch panels

Available LC-to-MDC adapters plug directly into existing LC patch panel cutouts without the need for panel modifications.

Improves reliability and supports problem-free changeovers

The MDC system employs ruggedized 2.00mm diameter cable and GR-326-rated connectors for dependable operation through multiple mate/ unmate cycles.

Offers multiple options for increased design flexibility

Options include electromagnetic interference (EMI)-shielded adapters, two- or four-port adapters and various cutout and line card configurations.

Enables simple polarity reversal

The MDC connector boot uses an easily reversible design.

MARKETS AND APPLICATIONS

Servers and Storage

Cable distribution and management systems 10G, 40G, 100G, 200G, 400G or 800G system migration installations Servers

Transceiver applications

Networking

Switches Routers Cloud computing systems





Servers

Switches



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SPECIFICATIONS

Reference Information

Packaging: Bag

Standards:

GR-326

TIA-568

IEC Attenuation Grade B

Fiber Count: Duplex (two-fiber single jacket)

Cable: Riser (OFNR)

Jacket Ratings:

Low-smoke zero halogen (LSZH)

Plenum (OFNP)

Fiber Types:

Single Mode: OS2

Multi-Mode: OM3, OM4

Contact Face: Angled physical contact (APC)

or ultra physical contact (UPC)

Connector Types: Duplex LC, MPO/MTP, MDC

Designed in: Millimeters

RoHS: Yes

Halogen Free: Yes

Physical

Connector Housings:

Single Mode: Green APC, blue UPC

Multi-Mode: Aqua UPC

Jacket Colors:

Single Mode (OS2): Yellow

Multi-Mode (OM3/OM4): Aqua

Cable Outside Diameter: 1.60 to 2.00mm

Split Sleeve Material: Zirconia ceramic

Operating Temperatures: -18 to +70°C

Storage Temperatures: -40 to +70°C

Optical

Connector Insertion Loss (IL): 0.35 dB Connector Return Loss (RL): 55 dB (max.)

Two-port, three-port and four-port adapters connect MDC connectors to MDC connectors or MDC Jr. connectors. The two-port and three-port adapters are designed to fit through the same panel cutout defined for duplex LC adapters, allowing an instant doubling or tripling of the current module/panel connector density by simply removing the LC duplex adapters and installing the MDC adapters.



MDC Two-Port Adapter Aligned Key – MDC/MDC



MDC Three-Port Adapter Aligned Key – MDC/MDC Jr.



MDC Two-Port Adapter and Connector