

MDC Fiber Patch Cables Datasheet

ULTRA HIGH-DENSITY FIBER CABLING IN DATA CENTERS

Designed for the Media Dependent Interface or Optical Interface of the new 200/400G SFP-DD and QSFP-DD / OSFP Transceivers



Uniboot MDC Cables

The MDC is a Very Small Form Factor (VSFF) duplex optical connector with proven 1.25mm ferrule technology used in industry standard LC connectors, while tripling times the fiber density over LC duplex connectors.

Developed as the Media Dependent Interface (MDI) or Optical Interface of the new SFP-DD and QSFP-DD / OSFP transceivers, the MDC products are mainly used in high-density applications and perfect for Base-8 cabling with 400Gbps transmission speed.

Standards Compliance

- ISO9001, RoHS, REACH, CE, WEEE Compliant
- GR-326
- IEC 61300-3-34
- TIA 568

Features

- Very Small Form Factor (VSFF) Optical Connector,
 Three Times Fiber Cabling Density over Duplex LC.
- Slim Uniboot Design Reduces the Cable Congestion.
- Simple and Toolless Polarity Reversal without Exposing and Twisting Fibers.
- DirectConec™ Allows for Easier Insertion and Extraction.
- Support Four Individual MDC Cables in A QSFP Footprint and Two Cables in An SFP Footprint.
- Aimed at Supersized Data Centers, Cloud
 Computing and Other High-density Applications.

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Technical Specification

Physical Characteristics	Description
Fiber Count	Duplex
Fiber Mode	OS2 9/125μm
Glass Fiber	Corning Fiber
Fiber Grade	G.657.A1 (Compatible with G.652.D)
Connector Type	MDC to MDC / MDC to LC
Polish Type	UPC to UPC
Cable Jacket	PVC (OFNR)
Cable Diameter	2.0mm
Minimum Bend Radius (Fiber Core)	10mm
Minimum Bend Radius (Fiber Cables)	10/5D (Dynamic/Static)
Operating Temperature	-10°C to + 70°C
Storage Temperature	-20°C to + 70°C

Optical Characteristics	Description
Wavelength	1310/1550nm
Attenuation at 1310nm	≤0.4 dB/km
Attenuation at 1550nm	≤0.3dB/km
Insertion Loss	≤0.3dB
Return Loss	≥50dB
Polarity	A(Tx) to B(Rx)

400G Ethernet Distance

10km with OSFP-DD

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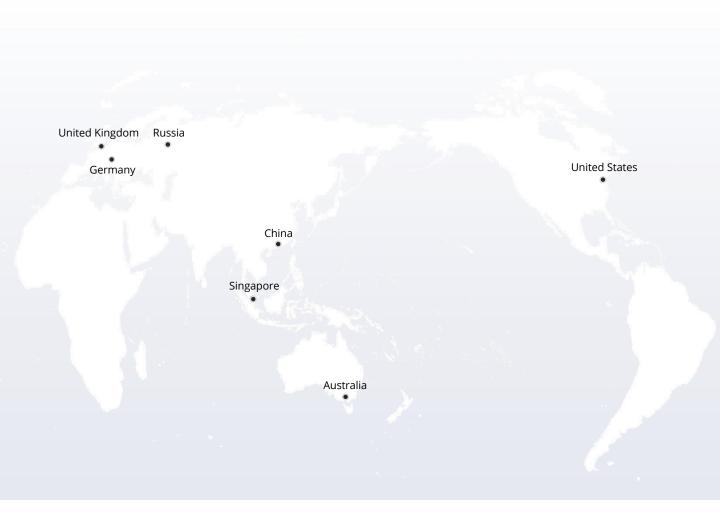


MDC Fiber Cables Product List

Series	ID	Description
MDC-MDC	#130963	1m (3ft) MDC UPC to MDC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-MDC	#139410	2m (7ft) MDC UPC to MDC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-MDC	#130964	3m (10ft) MDC UPC to MDC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-MDC	#130967	Customized Length MDC UPC to MDC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-LC	#130968	1m (3ft) MDC UPC to LC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-LC	#139411	2m (7ft) MDC UPC to LC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-LC	#130969	3m (10ft) MDC UPC to LC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection
MDC-LC	#130972	Customized Length MDC UPC to LC UPC Uniboot Duplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch Cable, for 200/400G Network Connection

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