**FS**

# 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.

**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 |

## 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 |

FS

United Kingdom
Russia
Germany
United States
China
Singapore
Australia

🔒 https://www.fs.com ☆

The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.