

3M™ Mini D Ribbon (MDR) Cable Assembly

.050" High Speed Digital Data Transmission System - 20 to 26 Pos. 14520-EZDB-XXX-0EC



- Supports VESA™ DFP standard for 20 position MDR at host and DISM standard for 26 position at LCD monitor
- Signal protection with each differential twin-ax pair has a foil shield and drain wire
- Entire cable bundle is shielded with foil and braid for additional signal protection
- Rugged MDR ribbon type contact
- Quick release latches
- RoHS* compliant

Date Modified: May 22, 2006

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Physical

Connector Contact Plating

Wiping Area: 30 μ " [0.76 μ m] Min. Gold

Shell

Color: Beige

Material: Acrylonitrile Butadiene Styrene (ABS)

Cable

Color: Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

Electrical

Voltage Rating: 30 V

Current Rating: 1 A

Insulation Resistance: $> 1 \times 10^8 \Omega$ at 100 VDC

Withstanding Voltage: 350 Vrms for 1 minute

Individually Shielded Twisted Pairs

Characteristic Impedance: $100 \pm 10 \Omega$

Conductor Size: 28 AWG Stranded

Propagation Velocity: 1.25 ns/ft [4.1 ns/m]

Environmental

Temperature Rating: -20°C to +75°C

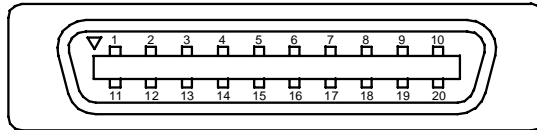
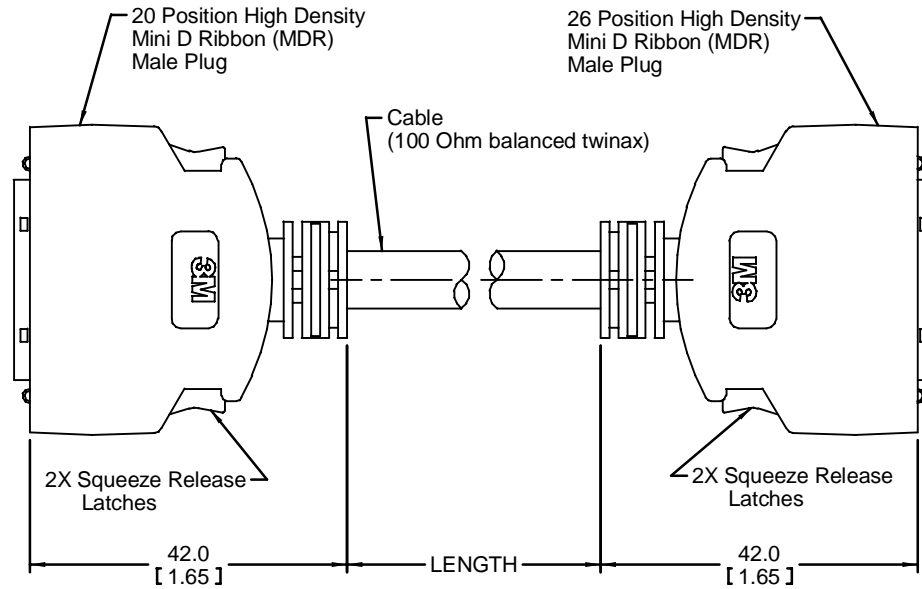
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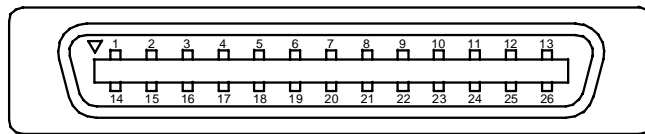
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MDR 20 Position Plug



MDR 26 Position Plug



mm
[Inch]

| Tolerance Unless Noted | | |
|------------------------|-----|------|
| | 0.0 | 0.00 |
| mm | ±.1 | ±.10 |

[] Dimensions for Reference only

Ordering Information

14520-EZDB-XXX-0EC

Length: _____
 100 = 1 meters
 200 = 2 meters
 300 = 3 meters
 500 = 5 meters
 A00 = 10 meters

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MDR-DFP 20 to 26 Position, Pinout P26-20 (Rev. 2.1)

DFP Transmitter, Tx (Host)

P26-7 Receiver, Rx (Monitor)

| Pin Number | Signal | | Pin Number | Signal |
|------------|-------------|--|------------|-------------|
| 1 | Tx 1+ | | 1 | DDC gnd |
| 2 | Tx 1- | | 2 | Rx Clk shld |
| 3 | Tx 1 shld | | 3 | DDC +5 Vdc |
| 4 | Tx Clk shld | | 4 | Rx 0- |
| 5 | Tx Clk + | | 5 | Rx 0+ |
| 6 | Tlk Clk - | | 6 | NC |
| 7 | DDC gnd | | 7 | NC |
| 8 | DDC +5 Vdc | | 8 | NC |
| 9 | NC | | 9 | DDC/SDA |
| 10 | NC | | 10 | Rx 1 shld |
| 11 | Tx 2+ | | 11 | NC |
| 12 | Tx 2- | | 12 | Rx 2- |
| 13 | Tx 2 shld | | 13 | Rx 2+ |
| 14 | Tx 0 shld | | 14 | Rx Clk- |
| 15 | Tx 0+ | | 15 | Rx Clk+ |
| 16 | Tx 0- | | 16 | NC |
| 17 | NC | | 17 | Rx 0 shld |
| 18 | sense | | 18 | DDC/SCL |
| 19 | DDC/SDA | | 19 | NC |
| 20 | DDC/SCL | | 20 | NC |
| | | | 21 | NC |
| | | | 22 | Rx 1- |
| | | | 23 | Rx 1+ |
| | | | 24 | sense |
| | | | 25 | Rx 2 shld |
| | | | 26 | NC |

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Minimum 10%
Post-Consumer Fiber

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