

# 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  $\mu$ " [0.76 $\mu$ m] Min. Gold

### Shell

Color: Beige

Material: Acrylonitrile Butadiene Styrene (ABS)

### Cable

Color: Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

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## 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]

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## Environmental

**Temperature Rating:** -20°C to +75°C

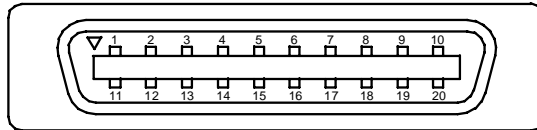
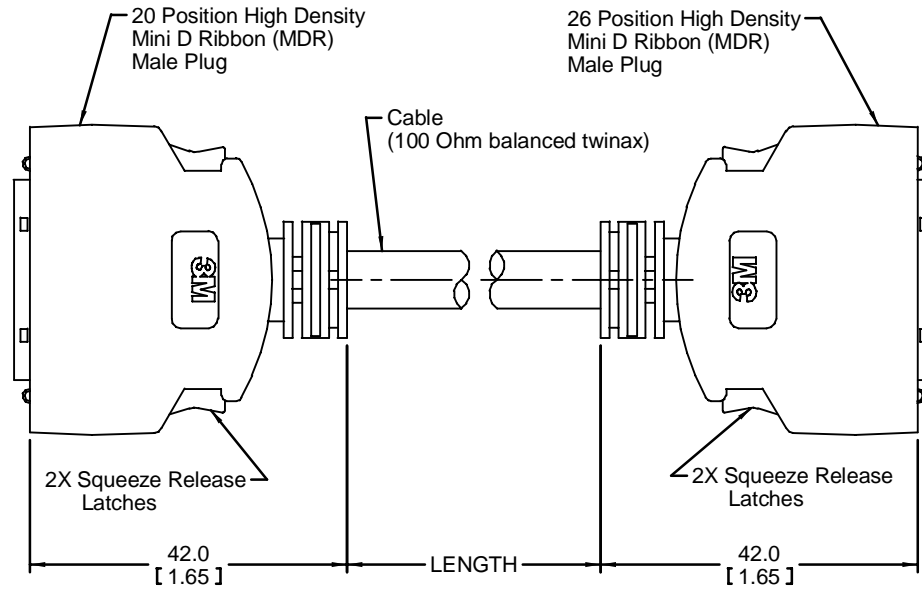
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

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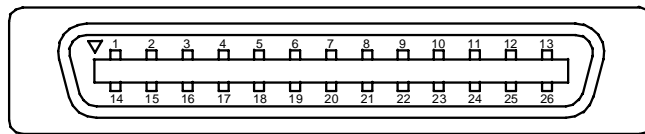
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MDR 20 Position Plug



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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# 3M™ Mini D Ribbon (MDR) Cable Assembly

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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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