

3M™ Mini D Ribbon (MDR) Cable Assembly

.050" High Speed Digital Data Transmission System, 100 Pos. 141A0-SZ5B-XXX-0DC



- 24 shielded quad pairs (96 cond.) plus 4 drains
- Solution for high speed datacom and telecom applications
- Each differential pair is shielded with foil and braid for additional signal protection
- Rugged MDR ribbon type contact
- Quick release latches
- RoHS* compliant

Date Modified: October 11, 2005

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Physical

Connector Contact Plating

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

Shell

Plating: Nickel

Material: Aluminum

Cable

Color: Parchment/Beige

Jacket Material: Polyvinyl Chloride (PVC)

Flammability: AWM VW-1

Electrical

Voltage Rating: 30 V

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

Withstanding Voltage: 350 Vrms for 1 minute

Current Rating: 1 A

Individually Shielded Balanced Quads

Characteristic Impedance: $100 \pm 10 \Omega$

Conductor Size: 30 AWG

Propagation Velocity: 1.45 ns/ft [4.8 ns/m]

Environmental

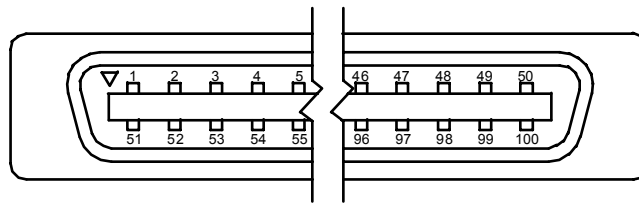
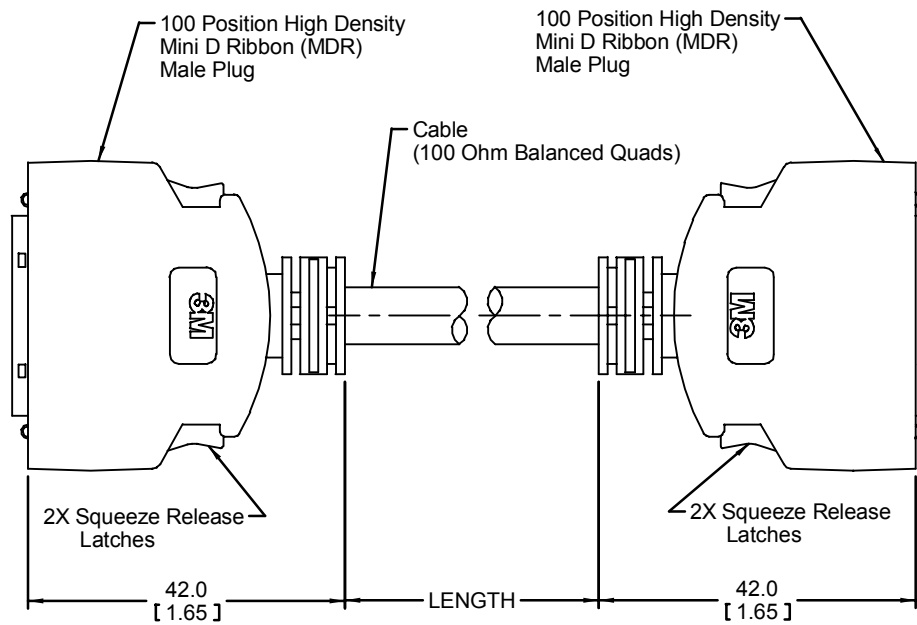
Temperature Rating: -20°C to +75°C

"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.

UL File No.: E86982

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MDR 100 Position Plug
Both Ends

mm
[Inch]

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

[] Dimensions for Reference only



Ordering Information

141A0-SZ5B-XXX-0DC

Length: _____
300 = 3 meters
500 = 5 meters

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| MDR 100 Position Pinout F100-1 | | | | | |
|--------------------------------|-------------|-------|------|-------------|-------|
| Quad | Signal | Pin # | Quad | Signal | Pin # |
| | LVDS GRND 1 | 1 | 2 | 25M | 26 |
| 11 | 1M | 51 | 2 | 26M | 76 |
| 11 | 2M | 2 | 2 | 25P | 27 |
| 11 | 1P | 52 | 2 | 26P | 77 |
| 11 | 2P | 3 | 7 | 27M | 28 |
| 12 | 3M | 53 | 7 | 28M | 78 |
| 12 | 4M | 4 | 7 | 27P | 29 |
| 12 | 3P | 54 | 7 | 28P | 79 |
| 12 | 4P | 5 | 8 | 29M | 30 |
| 13 | 5M | 55 | 8 | 30M | 80 |
| 13 | 6M | 6 | 8 | 29P | 31 |
| 13 | 5P | 56 | 8 | 30P | 81 |
| 13 | 6P | 7 | | LVDS GRND 3 | 32 |
| 14 | 7M | 57 | 9 | 31M | 82 |
| 14 | 8M | 8 | 9 | 32M | 33 |
| 14 | 7P | 58 | 9 | 31P | 83 |
| 14 | 8P | 9 | 9 | 32P | 34 |
| 15 | 9M | 59 | 10 | 33M | 84 |
| 15 | 10M | 10 | 10 | 34M | 35 |
| 15 | 9P | 60 | 10 | 33P | 85 |
| 15 | 10P | 11 | 10 | 34P | 36 |
| 16 | 11M | 61 | 18 | 35M | 86 |
| 16 | 12M | 12 | 18 | 36M | 37 |
| 16 | 11P | 62 | 18 | 35P | 87 |
| 16 | 12P | 13 | 18 | 36P | 38 |
| 17 | 13M | 63 | 19 | 37M | 88 |
| 17 | 14M | 14 | 19 | 38M | 39 |
| 17 | 13P | 64 | 19 | 37P | 89 |
| 17 | 14P | 15 | 19 | 38P | 40 |
| | LVDS GRND 2 | 65 | 20 | 39M | 90 |
| 3 | 15M | 16 | 20 | 40M | 41 |
| 3 | 16M | 66 | 20 | 39P | 91 |
| 3 | 15P | 17 | 20 | 40P | 42 |
| 3 | 16P | 67 | 21 | 41M | 92 |
| 4 | 17M | 18 | 21 | 42M | 43 |
| 4 | 18M | 68 | 21 | 41P | 93 |
| 4 | 17P | 19 | 21 | 42P | 44 |
| 4 | 18P | 69 | 22 | 43M | 94 |
| 5 | 19M | 20 | 22 | 44M | 45 |
| 5 | 20M | 70 | 22 | 43P | 95 |
| 5 | 19P | 21 | 22 | 44P | 46 |
| 5 | 20P | 71 | 23 | 45M | 96 |
| 6 | 21M | 22 | 23 | 46M | 47 |
| 6 | 22M | 72 | 23 | 45P | 97 |
| 6 | 21P | 23 | 23 | 46P | 48 |
| 6 | 22P | 73 | 24 | 47M | 98 |
| 1 | 23M | 24 | 24 | 48M | 49 |
| 1 | 24M | 74 | 24 | 47P | 99 |
| 1 | 23P | 25 | 24 | 48P | 50 |
| 1 | 24P | 75 | | LVDS GRND 4 | 100 |

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*Minimum 10%
Post-Consumer Fiber*

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