

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

.050" High Speed Digital Data Transmission System, 26 Position

14526-EZLB-XXX-0SC



- Solution for high speed datacom and telecom applications
- Eight shielded differential pairs plus two conductors for high bandwidth applications
- Each differential pair has a foil shield and drain
- Entire cable is shielded with a foil and braid for additional signal protection
- Rugged MDR ribbon type contacts
- Quick release latches
- RoHS\* compliant

Date Modified: May 29, 2006

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## Physical

### Connector Contact Plating

Wiping Area: 30  $\mu$ " [ .76  $\mu$ m ] Min Gold

Shell Color: Beige

Shell Material: Acrylonitrile Butadiene Styrene (ABS)

Cable Color: Beige

Cable Jacket Material: Polyvinyl Chloride (PVC)

Cable 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

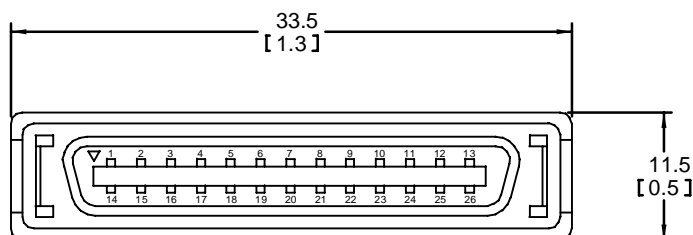
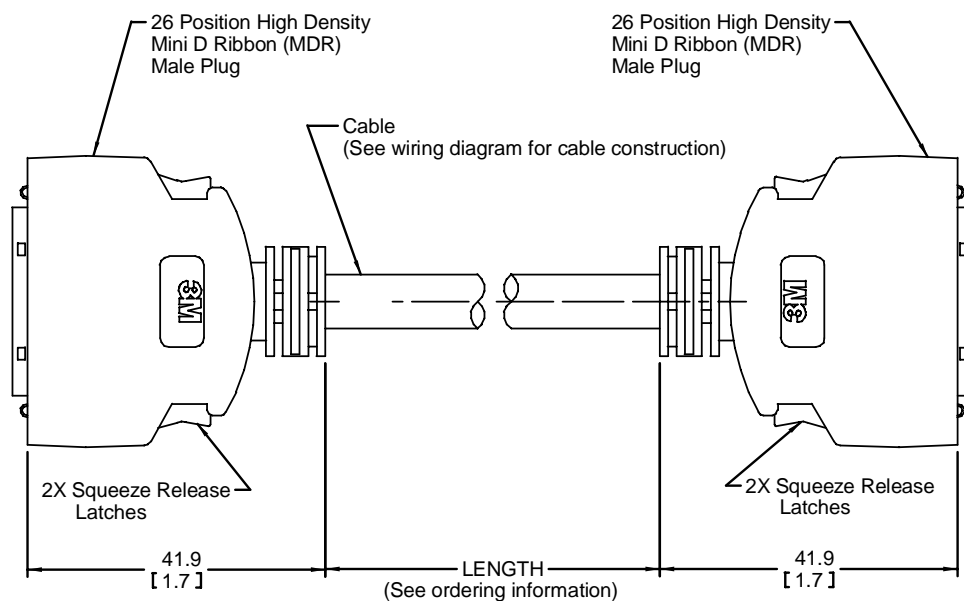
**Temperature Rating:** -20°C to +75°C

\*RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment  
"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 26 Position Plug**  
( Both Ends )

mm  
[Inch]

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

[ ] Dimensions for  
Reference only

Assembly Length Tolerance

Cable Length:  
0.5 to 1.5 meters -0 + .05 meters  
2 to 10 meters -0 +3% of length



## Ordering Information

**14526-EZLB-XXX-0SC**

Length:

050 = .5 meters	400 = 4 meters
100 = 1 meters	500 = 5 meters
150 = 1.5 meters	600 = 6 meters
200 = 2 meters	700 = 7 meters
250 = 2.5 meters	800 = 8 meters
300 = 3 meters	900 = 9 meters
350 = 3.5 meters	A00 = 10 meters

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**Interconnect Solutions**

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## MDR 26 Position, Pinout F26-26 rev 1

Transmitter (Tx)

3M MDR SMT

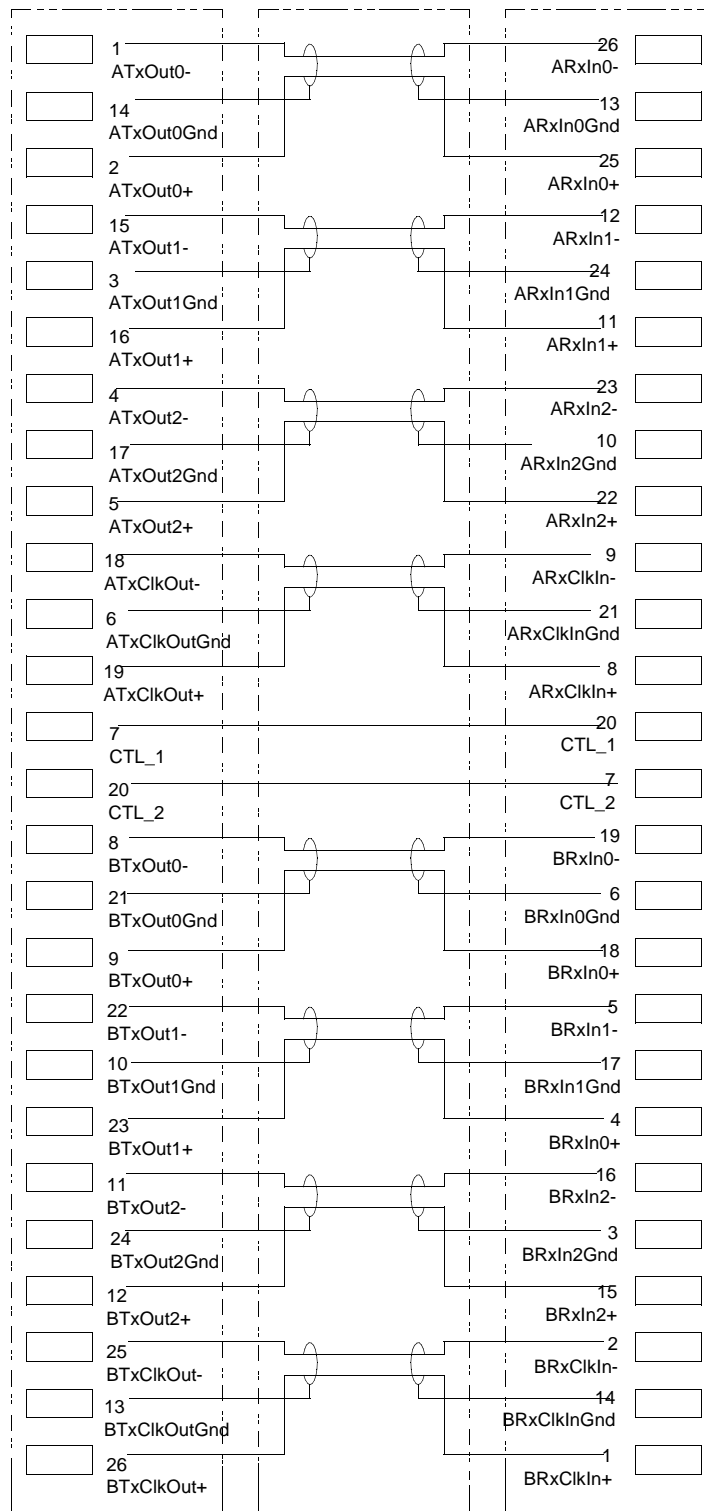
Receptacle

Receiver (Rx)

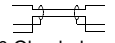
3M MDR SMT

Receptacle

Cable



### Symbols Key:

  
100 Ohm balanced  
individually shielded  
twisted pair w/drain

- 28 AWG insulated conductor

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6801 River Place Blvd.  
Austin, TX 78726-9000  
800/225-5373  
[www.3M.com/electronics](http://www.3M.com/electronics)

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Minimum 10%  
Post-Consumer Fiber

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Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct     +86 (21) 6401-6692  
  
Email        amall@ameya360.com  
  
QQ           800077892  
  
Skype        ameyasales1 ameyasales2

➤ Customer Service :

Email        service@ameya360.com

➤ Partnership :

Tel           +86 (21) 64016692-8333  
  
Email        mkt@ameya360.com