

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

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

14X26-SZLB-XXX-0LC



- Supports new Industrial CameraLink™ in Automated Imaging Association for camera to frame grabber communications
- 11 shielded twin-ax pairs and four drain wires
- Entire cable bundle is shielded with foil and braid for additional signal protection
- Rugged MDR ribbon type contact
- Rugged thumbscrew retention
- EMI shielded junction shell in either plastic or overmolded construction.
- RoHS\* compliant

Date Modified: April 12, 2007

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## Physical

### Connector Contact Plating

Wiping Area: 30μ" [ 0.76μm ] Min. Gold  
Shell Color: Beige  
Shell Material: Overmold Option: Polyvinyl Chloride (PVC);  
Shell Kit Option: Polyester Elastomer  
Cable Color: Beige  
Cable Jacket Material: Polyvinyl Chloride (PVC)  
Cable Flammability: AWM VW-1

## Electrical

**Voltage Rating:** 30 V

**Current Rating:** 1 A

**Insulation Resistance:**  $> 1 \times 10^8 \Omega$  at @100 V<sub>DC</sub>

**Withstanding Voltage:** 350 V<sub>RMS</sub> for 1 minute

### Individually Shielded Twisted Pairs

Characteristic Impedance: 100 ± 10Ω

Conductor Size: 28 AWG Stranded

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

Skew (within pair): 50 ps/meter maximum

Skew (channel skew per chipset): 50 ps/meter maximum

## Environmental

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

\*"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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UL File No.: E86982

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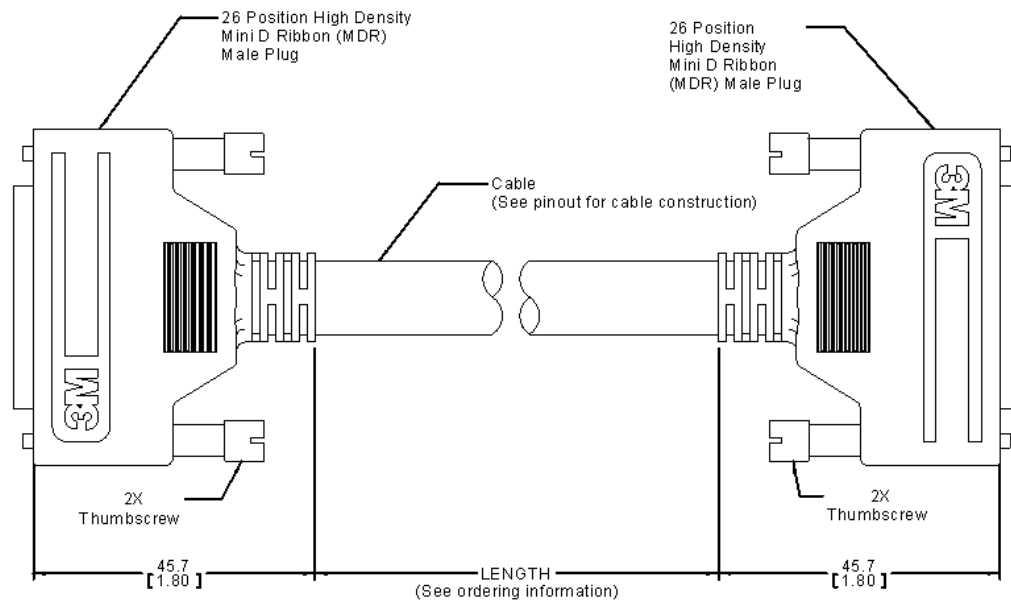
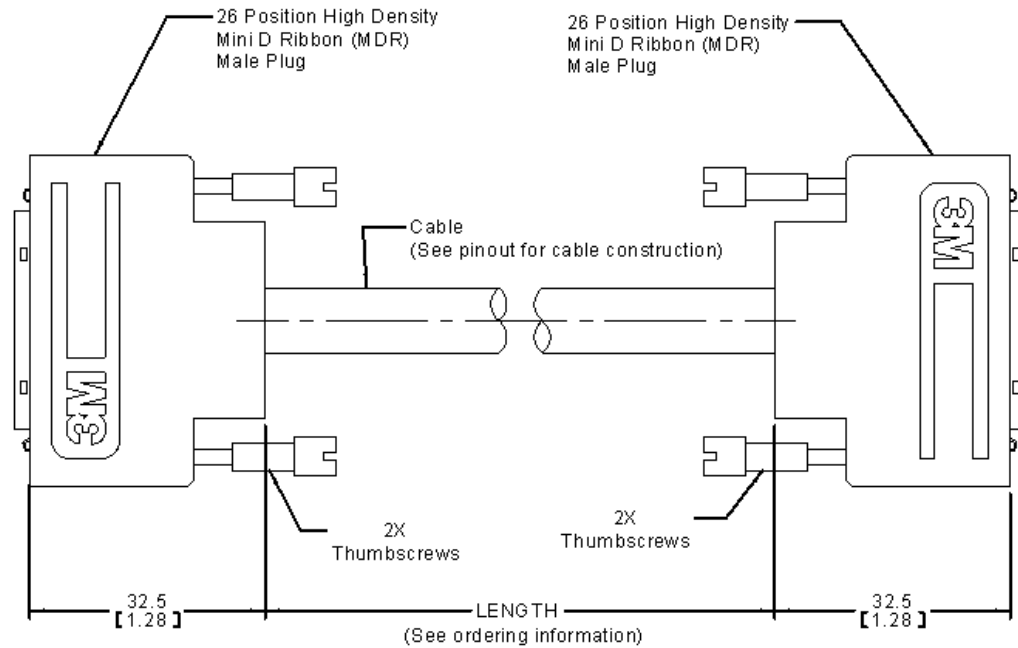
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## Discrete #4-40 Thumbscrew



mm  
[inch]

Tolerance Unless Noted		
	0.0	0.00
mm	±.1	±.01

[ ] 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

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

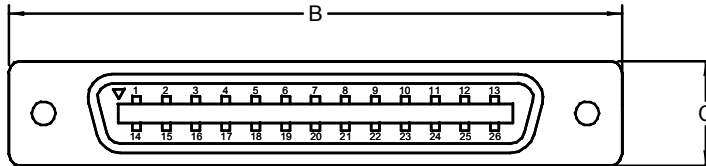
14X26-SZLB-XXX-0LC

mm

[inch]

Tolerance Unless Noted		
	0.0	0.00
mm	±.1	±.01

[ ] Dimensions for Reference Only



Generic End Detail  
MDR 26 Position Plug  
(Both Ends)



Shell Option (see ordering information)	B	C
Thumbscrew overmold shell	40.2 [ 1.58 ]	14.0 [ .55 ]
Thumbscrew shell kit	39.4 [ 1.55 ]	12.8 [ .51 ]

1. Use 3M™ Jacksocket 3341-31 for mounting receptacle to panel for T version cables.
2. Use 3M™ Jacksocket 3341-32 for mounting receptacle to panel for B version cables.

## Ordering Information

**14X26-SZLB-XXX-0LC**

Shell Retention Options:

B = Discrete #4-40 Thumbscrew shell kit  
T = Overmold #4-40 Thumbscrew shell

Length:

050 = 0.5 meters    450 = 4.5 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  
400 = 4 meters

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

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Cable Assembly and Camera Link Pinouts						
Medium and Full Configurations				Base Configuration		
Two Channel Link Chips				One Channel Link Chip + Camera Control + Serial Communication		
Camera Connector	Right Angle Frame Grabber	Channel Link Signal	Cable Name (Reference only)	Camera Connector	Right Angle Frame Grabber	Channel Link Signal
1	1	inner shield	inner shield	1	1	inner shield
14	14	inner shield	inner shield	14	14	inner shield
2	25	Y0-	Pair 1-	2	25	X0-
15	12	Y0+	Pair 1+	15	12	X0+
3	24	Y1-	Pair 2-	3	24	X1-
16	11	Y1+	Pair 2+	16	11	X1+
4	23	Y2-	Pair 3-	4	23	X2-
17	10	Y2+	Pair 3+	17	10	X2+
5	22	Yclk-	Pair 4-	5	22	Xclk-
18	9	Yclk+	Pair 4+	18	9	Xclk+
6	21	Y3-	Pair 5-	6	21	X3-
19	8	Y3+	Pair 5+	19	8	X3+
7	20	100 ohm	Pair 6+	7	20	SerTC+
20	7	terminated	Pair 6-	20	7	SerTC-
8	19	Z0-	Pair 7-	8	19	SerTFG-
21	6	Z0+	Pair 7+	21	6	SerTFG+
9	18	Z1-	Pair 8-	9	18	CC1-
22	5	Z1+	Pair 8+	22	5	CC1+
10	17	Z2-	Pair 9+	10	17	CC2+
23	4	Z2+	Pair 9-	23	4	CC2-
11	16	Zclk-	Pair 10-	11	16	CC3-
24	3	Zclk+	Pair 10+	24	3	CC3+
12	15	Z3-	Pair 11+	12	15	CC4+
25	2	Z3+	Pair 11-	25	2	CC4-
13	13	inner shield	inner shield	13	13	inner shield
26	26	inner shield	inner shield	26	26	inner shield

**Notes:**

1. All pairs are individually shielded with aluminum foil.
2. Pair shields are wrapped aluminum out and are in contact with four internal drains (logic ground).
3. Outer braid and foil (chassis ground) are isolated from inner drains (logic ground).
4. Cable assembly compatible with both Camera Link configurations.

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## 3M Electronics

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Minimum 10%  
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