

# 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.

Date Modified: May 30, 2003

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## Physical

### Connector Contact Plating

Wiping Area: 30  $\mu$ " [ 0.76  $\mu$ m ] Min. Gold

### Shell Options

Color: Parchment/Beige

Material: Overmold Option: Polyvinyl Chloride (PVC)

Shell Kit Option: Polyester Elastomer

### Cable

Color: Parchment/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 ]

Skew (within pair): 50 ps/meter maximum

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

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## Environmental

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

CameraLink is a trademark of the Automated Imaging Association.

UL File No.: E86982

**3M**

Interconnect Solutions

<http://www.3M.com/interconnects/>

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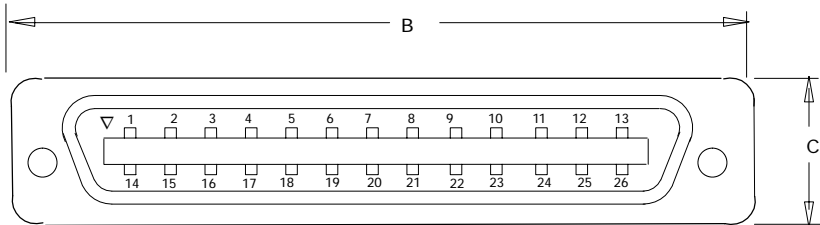
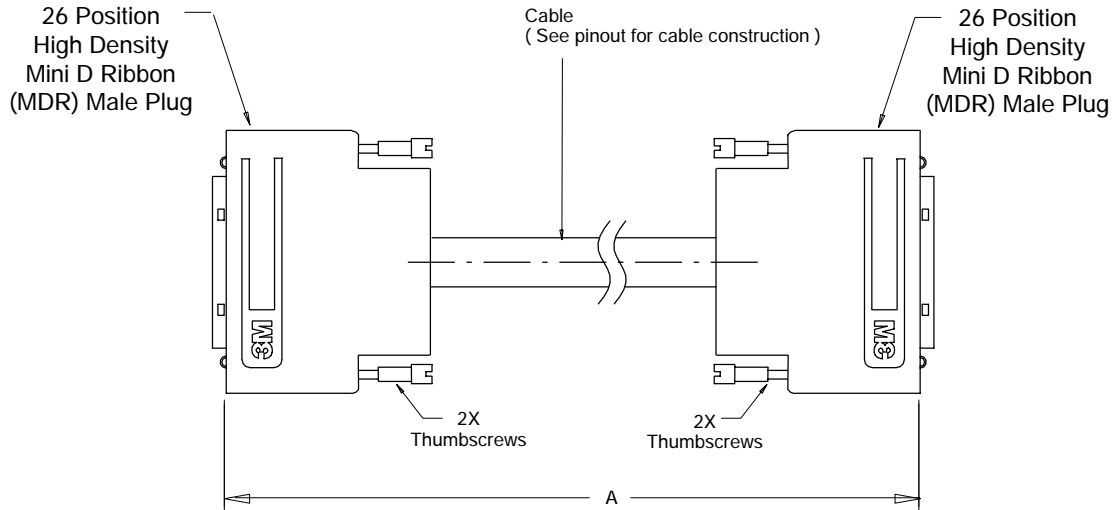
For technical, sales or ordering information call

800-225-5373

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Generic End Detail  
MDR 26 Position Plug  
( Both Ends )

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

Note: Use 3341-31 jacksheet for mounting receptacle to panel.

## Ordering Information

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

Shell Retention Options:  
B = Thumbscrew shell kit  
T = Thumbscrew overmold shell

Length see Dim A  
100 = 1 meter  
200 = 2 meters  
300 = 3 meters  
450 = 4.5 meters  
500 = 5 meters  
700 = 7 meters  
A00 = 10 meters

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

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Cable Assembly and Camera Link Pinouts*						
3M Cable v 51.2						
*Cable assembly compatible with both Camera Link configurations						
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).

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