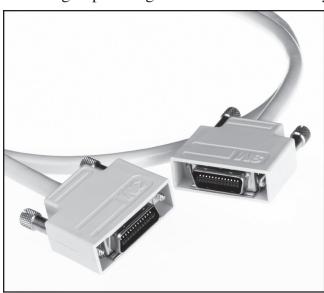
## 3M<sup>™</sup> Mini D Ribbon (MDR) Cable Assembly

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

14X26-SZLB-XXX-0LC



- Supports 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
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: May 18, 2011

TS-1001-C Sheet 1 of 4

### **Physical**

**Connector Contact Plating** 

Wiping Area: 30 µ" [ 0.76 µm ] 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 @  $100 \text{ V}_{DC}$ **Withstanding Voltage:**  $350 \text{ V}_{rms}$  for 1 minute

**Individually Shielded Twisted Pairs** 

Characteristic Impedance:  $100 \pm 10\Omega$ 

Conductor Size: 28 AWG Stranded Propogation 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

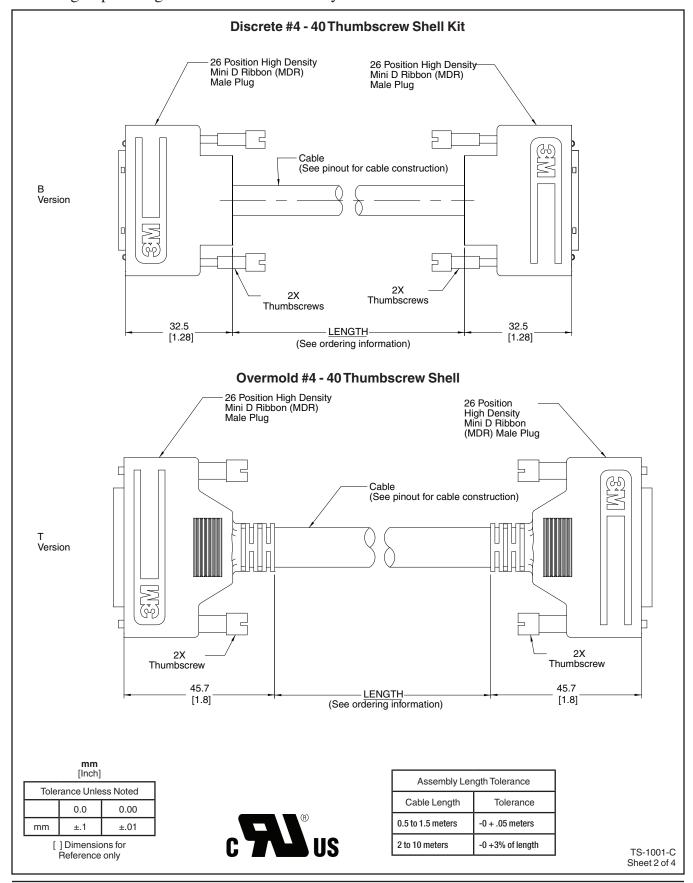
UL File No.: E86982

CameraLink is a trademark of the Automated Imaging Association.

## 3M<sup>™</sup> Mini D Ribbon (MDR) Cable Assembly

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

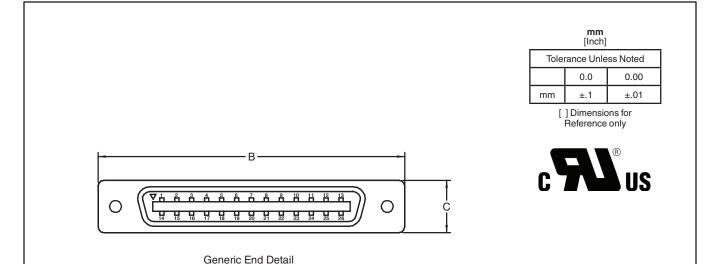
14X26-SZLB-XXX-0LC



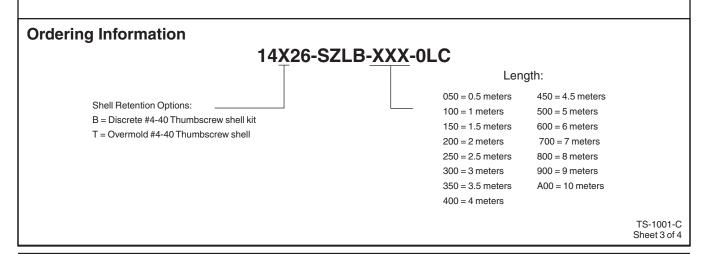
## $3M^{\scriptscriptstyle\mathsf{TM}}$ Mini D Ribbon (MDR) Cable Assembly

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

MDR 26 Position Plug (Both Ends) 14X26-SZLB-XXX-0LC



	Dimensions		
Shell Option (see ordering information)	В	С	
T = Overmold #4-40	40.2	14.0	
Thumbscrew Shell	[ 1.58 ]	[ .55 ]	
B = Discrete #4-40	39.4	12.8	
Thumbscrew Shell Kit	[ 1.55 ]	[ .51 ]	



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

14X26-SZLB-XXX-0LC

Cable Assembly and Camera Link Pinouts								
Medium and Full Configurations  Two Channel Link Chips			Base Configuration One Channel Link Chip + Camera Control + Serial Communication					
						Camera Connector	Frame Grabber Connector	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	Х0-		
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	Х3-		
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 Camera Link Base, Medium and Full configurations.

TS-1001-C Sheet 4 of 4

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