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

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

14X26-SZLB-XXX-0LC



- Supports Industrial CameraLink<sup>™</sup> 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

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### **Physical**

<b>Connector Contact Plating</b>	
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:	
Current Rating:	1 A
<b>Insulation Resistance:</b>	$>1\times10^8\Omega$ at @100 $V_{DC}$
Withstanding Voltage:	$350  V_{rms}$ for 1 minute
<b>Individually Shielded Twisted Pairs</b>	
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

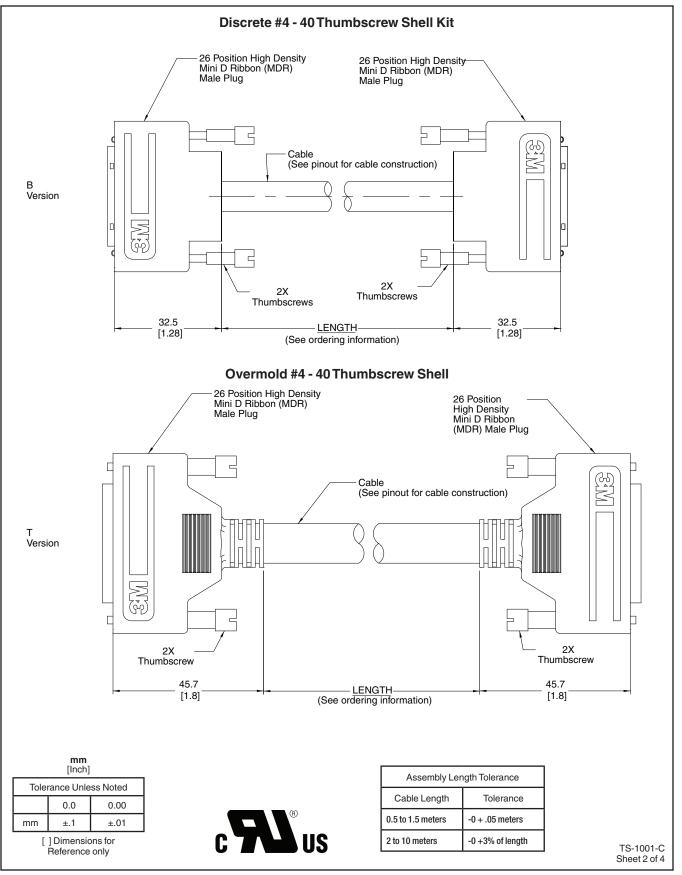
**Temperature Rating:** -20°C to +75°C

UL File No.: E86982

 $\label{eq:cameraLink} CameraLink \mbox{ is a trademark of the Automated Imaging Association}.$ 

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#### ЗМ

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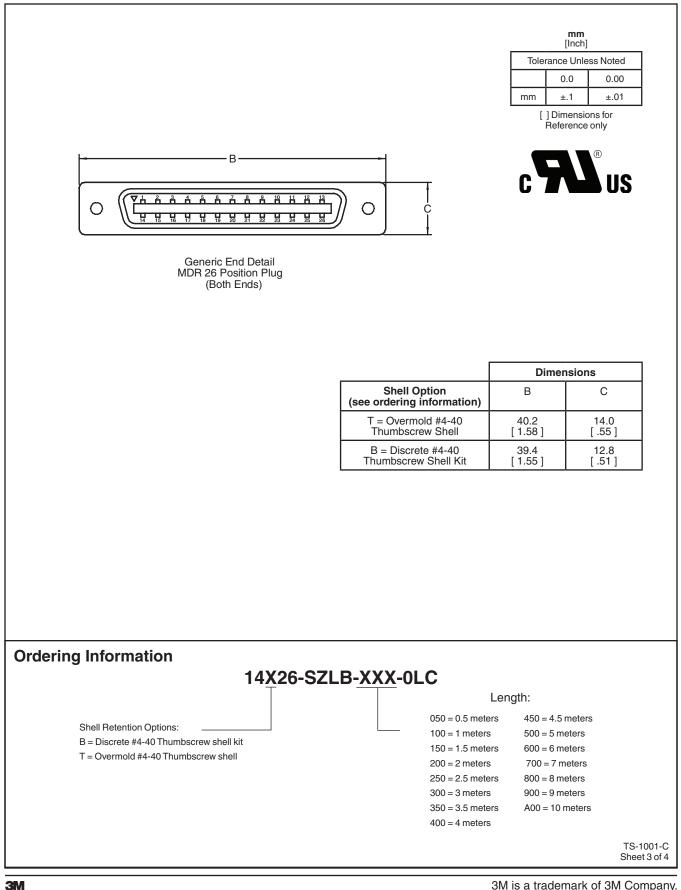
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Cable Assembly and Camera Link Pinouts									
Medium and Full Configurations Two Channel Link Chips			Base Configuration One Channel Link Chip + Camera Control + Serial Communication						
						Camera Connector	Frame Grabber Connector	Channel Link Signal	Cable Name (Reference only)
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	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.

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