3M[™] 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

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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 V_{DC} **Withstanding Voltage:** 350 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

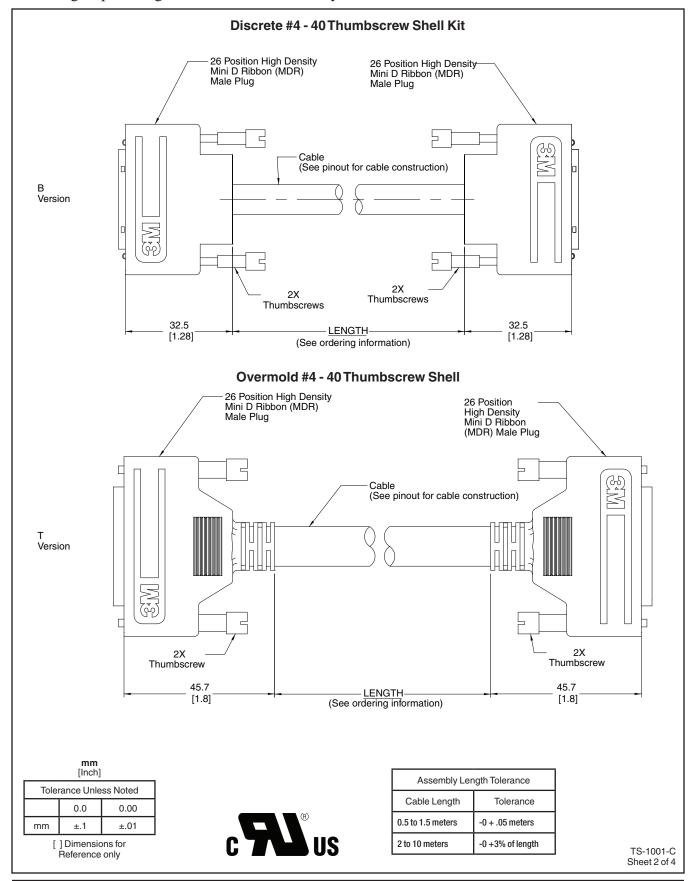
UL File No.: E86982

CameraLink is a trademark of the Automated Imaging Association.

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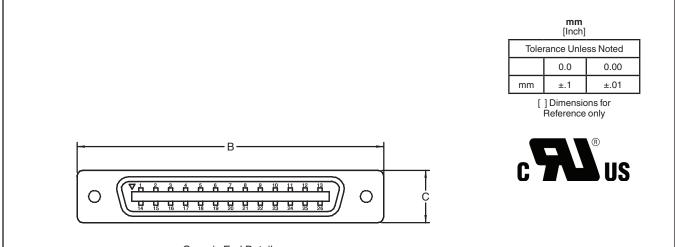
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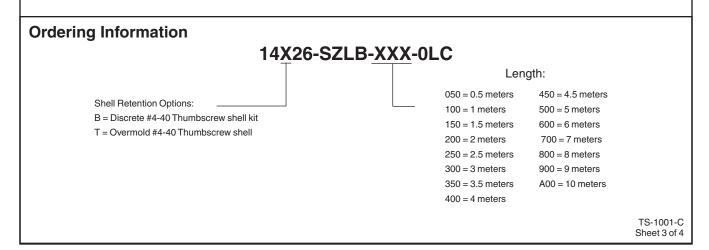
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Generic End Detail MDR 26 Position Plug (Both Ends)

	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]	



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

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the legal theory asserted.

6801 River Place Blvd. Austin, TX 78726-9000

www.3Mconnector.com

U.S.A. 1-800-225-5373

3M Electronics Solutions Division

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Website:

Welcome to visit www.ameya360.com

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