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

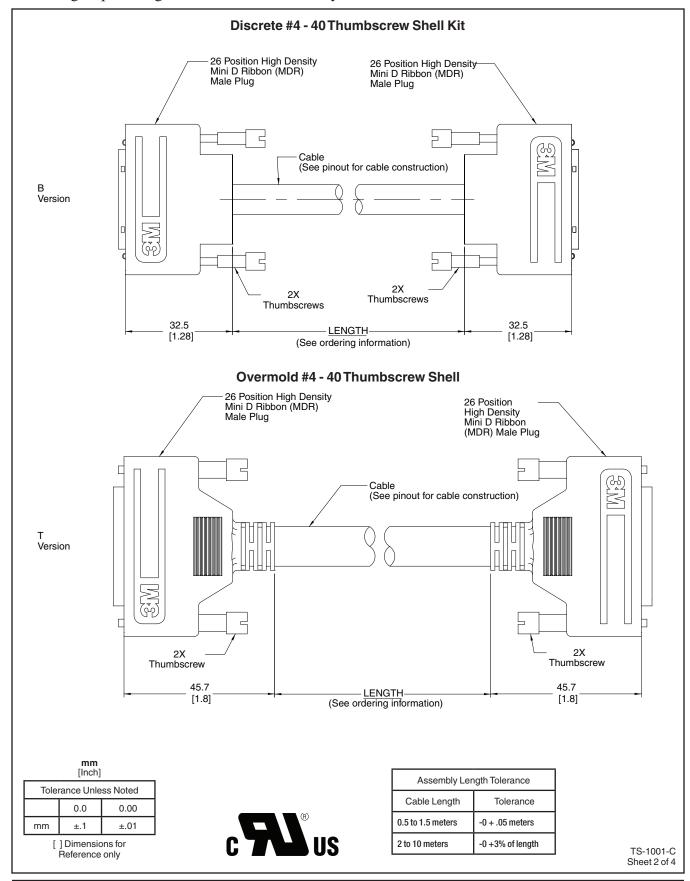
UL File No.: E86982

CameraLink is a trademark of the Automated Imaging Association.

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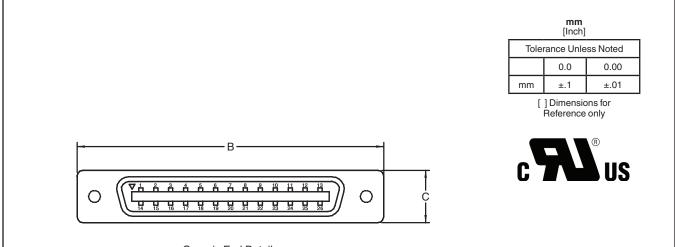
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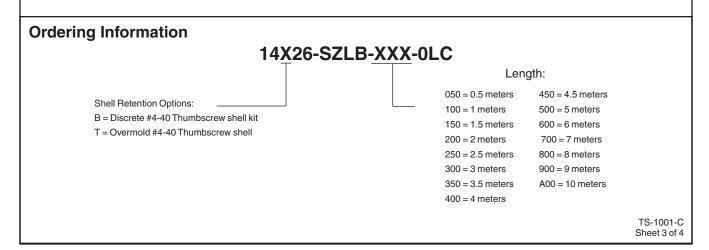
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Generic End Detail MDR 26 Position Plug (Both Ends)

| | 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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