High Speed MDR Cable Assemblies

3M™ Mini Delta Ribbon (MDR) High Speed Transmission System

The 3M MDR High Speed Transmission System is a digital interconnect system designed to meet the needs of today’s high performance data transmission applications.

Low Voltage Differential Signaling (LVDS) technology meets the requirements for a general purpose, high bandwidth interface for serial and parallel data at speeds up to 655 Mbps. The LVDS Standard is based on the use of 100 Ohm differential impedance transmission medium from driver to receiver. Signal skew is the largest factor inhibiting speed within a system and can occur at all points along the transmission path: driver to receiver circuits, circuit board traces, cables and connectors. Both types of skew within pair skew and channel skew can prohibit optimum performance in high speed transmission systems. 3M MDR Connectors provide an excellent solution for the demanding requirements of LVDS applications.

3M™ MDR High Speed Cable Assemblies for Camera Link® Standard Machine Vision Applications

- Supports the Automated Imaging Association’s Camera Link Standard for industrial camera to frame grabber communications
- 11 shielded twisted 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
- RoHS* compliant

3M™ LVDS/TMDS High Speed Cable Assemblies

- Several shielded differential pairs (according to application)
- Supports VESA/DFP standard for 20-position MDR at host device
- LCD monitor assembly for Panel Link™/TMDS interface
- Solution for Digital Displays, Datacom and Telecom applications
- Supports LVDS FP Link, Flat Link™, Channel Link™, Panel Link™/TMDS electrical interfaces
- Each differential twin-ax pair has foil shield and drain wire
- Entire cable bundle is shielded with foil and braid for additional signal protection
- Rugged MDR ribbon type contact
- Quick release latches or thumbscrews
- RoHS* compliant

*RoHS Statement:
“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty (see back cover).