High Speed MDR Digital Data Transmission System

Interconnect System Features

- Individually shielded twisted pair plus overall cable shield
- Robust, high density MDR connectors
- Mega speed @ minimum cost
- Numerous options for high bandwidth designs

For reliable high speed data transmission, 3M offers THE INTERCONNECT SOLUTION that addresses both performance and reliability requirements. 3M's High Speed MDR is a robust connector interface combined with a shielded-pair cable to meet today's high bandwidth requirements.

Low Voltage Differential Signaling (LVDS) is a high speed (>155.5 Mbps), low power general purpose interface standard that solves the physical layer bottleneck problems while servicing a wide range of applications. LVDS technology solves the increasing data rate problem while decreasing power dissipation and can be widely used in Telecom, Routers, Switches, Intelligent Hubs, LCD displays, Copiers, and numerous other applications.

3M has designed a core product portfolio of High Speed MDR cable assemblies to meet specific design requirements. The interconnect platform combines individually shielded twisted pair with an overall cable bundle shield. Low skew MDR surface mount receptacles are available in select pin count sizes. A compliant-pin receptacle for backplane applications will also be available in early 2000. Please refer to the back page for a portfolio of available MDR assemblies.

Typical LVDS Applications

- Telecom, Routers, Intelligent Hubs
- ATM Switch Backplanes
- Gigabit Ethernet applications
- LCD Displays, Copiers
- Wireless Basestations, LAN Backplanes
### MDR Boardmount Receptacles

<table>
<thead>
<tr>
<th>MDR Pos.</th>
<th>Assembly Product No.</th>
<th>Description</th>
<th>Pinout Number</th>
<th>Lengths</th>
<th>Spec Drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>14526-EZ8B-XXX-07C</td>
<td>6 shielded pairs (w/drain) + 1 TW/PR + 6 individual wires</td>
<td>F26-7</td>
<td>1, 2, 3, 5, 10 meters</td>
<td>TS-0757</td>
</tr>
<tr>
<td>26</td>
<td>14526-EZLB-XXX-0SC</td>
<td>8 shielded pairs (w/drain) + 2 individual wires</td>
<td>F26-26</td>
<td>1/2, 1, 2, 3, 5 meters</td>
<td>TS-0967</td>
</tr>
<tr>
<td>26</td>
<td>14526-EZHB-200-0QC</td>
<td>10 shielded pairs + 4 individual wires</td>
<td>D26-1</td>
<td>2 meters</td>
<td>TS-0891</td>
</tr>
<tr>
<td>50</td>
<td>14150-EZBB-XXX-0LC</td>
<td>20 shielded pairs + 6 drains</td>
<td>C50-1</td>
<td>1/2, 1 1/2, 3 meters</td>
<td>TS-0959</td>
</tr>
<tr>
<td>100</td>
<td>141A0-SZ5B-XXX-0DC</td>
<td>24 shielded quads (96 cond) + 4 drains</td>
<td>F100-1</td>
<td>3, 5 meters</td>
<td>TS-0966</td>
</tr>
</tbody>
</table>

3M has the capability to design other high performance cables to meet specific application requirements, call your local 3M Sales representative.

For MDR Interconnect Solutions ordering information, technical information and product information, you can reach us at:

**Phone:** 1-800-225-5373  
**Fax:** 1-800-325-5329  
**Web:** [http://www.3M.com/interconnects/](http://www.3M.com/interconnects/)

Channel Link is a registered trademark of the National Semiconductor Corporation.

---

### Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture for a period of one (1) year from the date of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M’s option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.