



# 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



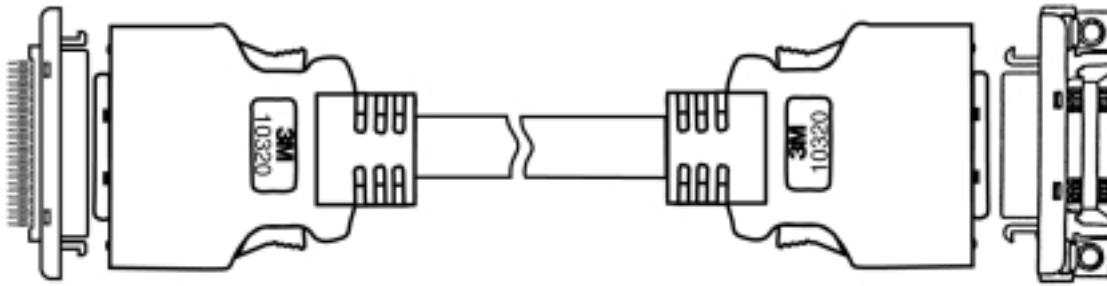
bundle shield. Low skew MDR surface mount receptacles are available in select pin count sizes. A compliant-pin receptacle for backplane applications will also be available in early 2000. Please refer to the back page for a portfolio of available MDR assemblies.

## Typical LVDS Applications

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



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MDR Pos.	Assembly Product No.	Description	Pinout Number	Lengths	Spec Drawing
26	14526-EZ8B-XXX-07C	6 shielded pairs (w/drain) + 1 TW/PR + 6 individual wires	F26-7	1, 2, 3, 5, 10 meters	TS-0757
26	14526-EZLB-XXX-05C	8 shielded pairs (w/drain) + 2 individual wires	F26-26	1/2, 1, 2, 3, 5 meters	TS-0967
26	14526-EZHB-200-0QC	10 shielded pairs + 4 individual wires	D26-1	2 meters	TS-0891
50	14150-EZBB-XXX-0LC	20 shielded pairs + 6 drains	C50-1	1/2, 1 1/2, 3 meters	TS-0959
100	141A0-SZ5B-XXX-0DC	24 shielded quads (96 cond) + 4 drains	F100-1	3, 5 meters	TS-0966

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

MDR Boardmount Receptacles		
	Low skew, surface mount, right angle	Spec Drawing TS-0755 and TS-0874
	Through hole, right angle	Spec Drawing TS-0621 and TS-0531
	Through hole, vertical	Spec Drawing TS-0427

3M will release an MDR compliant-pin receptacle for backplane applications (sizes 26, 40, 50, 68 pos.) in December, 1999. Other sizes will be released in Quarter 1, 2000.

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

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