



## 3M™ Shielded Cable Junction Shell – Round

## – Flat

Plastic			Metal		Metal	Dedicated Connectors
						
10314-3210-000			10314-A200-00	10314- A500-00		10114-6000 EC
10320-3210-000			10320-A200-00		10320-1230-00	10120-6000 EC
10326-3210-000			10326-A200-00	10326- A500-00	10326-1230-00	10126-6000 EC
10336-3210-000		10326-32J0-00x	10336-A200-00	10336- A500-00	10336-1230-00	10136-6000 EC
10340-3210-000			10340-A200-00	10340- A500-00	10340-1230-00	10140-6000 EC
10350-3210-000	10350-3280-000-x	10350-32J0-00x	10350-A200-00	10350- A500-00	10350-1230-00	10150-6000 EC
10368-3210-000	10368-3280-000-x	10368-32J0-00x	10368-A200-00	10368- A500-00	10368-12R1-00	10168-6000 EC
	10380-3280-000-x			10380- A500-00	10380-12R1-00	10180-6000 EC
			103A0-A200-00		103A0-12R1-00	101A0-6000 EC
Beige (Standard) Options: Medium Gray, Black	Cable Exit Inside Diameter of Bushing x:  0 = 10.0 mm 1 = 11.0 mm	Beige (Standard) x: 0 = Beige (Standard) 3 = Medium Gray (Special) 6 = Black (Special)				Comments
UL 94V-0	UL 94V-0	UL 94V-0				UL Flammability
Yes	Yes	Yes	Yes	Yes	Yes	*RoHS Compliant
3600 3647 KU-C-..	3600 3647 KU-C-..	3600 3647 KU-C-..	3600 3647 KU-C-..	3600 3647 KU-C-..	3749 90102, 90201 90111, 90211	Dedicated Cables for Series (101xx-60x0 EC)
TS-0571	TS-0534	TS-0535	TS-0341	TS-0394	TS-0655 (-1230-00) TS-0396 (-1230-00) TS-0666 (-12R1)	Tech Sheet No.

## 3M™ Unshielded Round Cable Junction Shell

Plastic				
				Dedicated Connectors
10314-52A0-008	10314-52F0-008	10314-42A0-008	10314-42F0-008	10114-3000 PC (PE)
10320-52A0-008	10320-52F0-008	10320-42A0-008	10320-42F0-008	10120-3000 PC (PE)
10326-52A0-008	10326-52F0-008	10326-42A0-008	10326-42F0-008	10126-3000 PC (PE)
10336-52A0-008	10336-52F0-008	10336-42A0-008	10336-42F0-008	10136-3000 PC (PE)
				10140-3000 PC (PE)
10350-52A0-008	10350-52F0-008	10350-42A0-008	10350-42F0-008	10150-3000 PC (PE)
Plastic Shell, Unshielded Groundplate attached M2.6 Jack Screw	Plastic Shell, Unshielded Groundplate attached Latch	Plastic Shell, Unshielded M2.6 Jack Screw	Plastic Shell, Unshielded Latch	Comments
UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL Flammability
Yes	Yes	Yes	Yes	*RoHS Compliant
Solderable discrete wire round cable				Dedicated Cables for Series 101xx-3000 (101xx-60x0 EC)
Contact your local 3M sales office	TS-0670	Contact your local 3M sales office	Contact your local 3M sales office	Tech Sheet No.



# 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™ LVDS/TMDS High Speed Cable Assemblies Transmission Systems



- 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).

### 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™ Shrunk Delta Ribbon (SDR) High Speed Cable Assemblies for Mini Camera Link® Standard Machine Vision Applications

- Supports AIA Industrial Mini Camera Link Standard for new Mini C/L camera to frame grabber applications
- 11 shielded twisted pairs with four drain wires
- Entire cable bundle is shielded with foil and braid for additional signal protection
- Rugged ribbon contact type
- Rugged thumbscrew retention
- Available right angle overmolded SDR backshells eliminate bend radius
- EMI shielded cable assembly
- Available in configurations to mate between Mini Camera Link and Camera Link products