

0.40mm (.016") Pitch Micro IDT Coaxial
and 0.50mm (.020") Pitch Micro Discrete
Wire-to-Board Connector Systems



INTRODUCTION

Molex's new 0.40mm Micro IDT Coaxial and 0.50mm Micro Discrete wire-to-board connector systems were originally designed for cell phones and other consumer equipment that have hinges for rotating LCDs. These micro wire-to-board systems include dozens of extremely thin wires bundled together in order to maneuver through twists and turns that are too severe for FPC to handle.

The 0.40mm Micro IDT Coaxial version uses IDT technology to mass terminate the coaxial cable. The Micro IDT Coaxial system includes both top and side SMT PCB receptacles to meet various design needs. The connectors are fully shielded for EMI/RFI and noise protection and secure grounding.

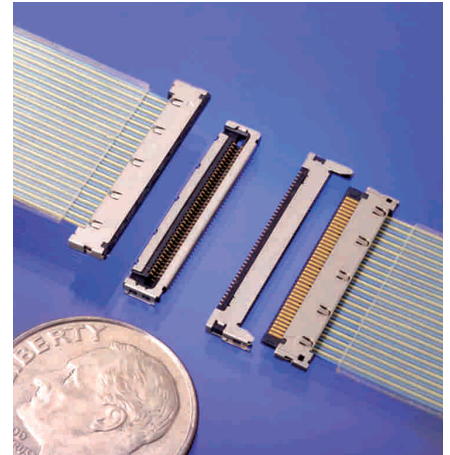
The 0.50mm Micro Discrete version has an unshielded SMT header and utilizes economical hand soldering for wire termination. This system is finding uses in applications such as digital camcorders that have rotating LCDs.



0.40mm Pitch Micro IDT Coaxial and 0.50mm Pitch Micro Discrete Wire-to-Board Connector Systems

Applications:

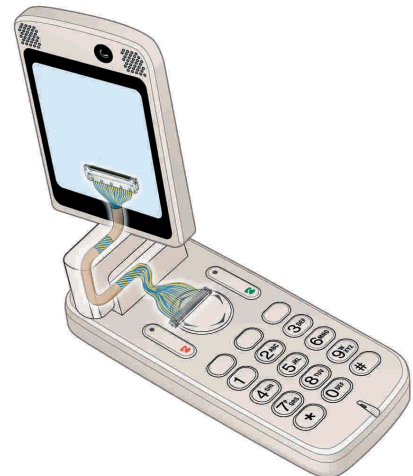
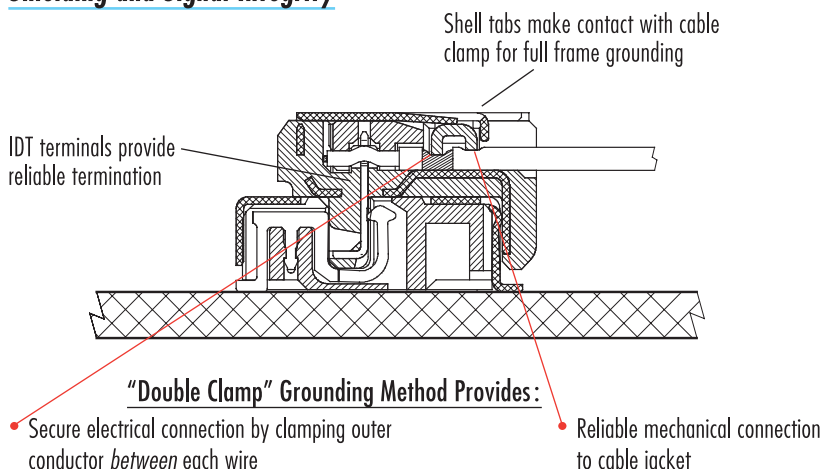
- Mobile Phones
- Digital Cameras / Camcorders
- Test Connectors for High Speed Applications
 - Servers, High-end Hard Drives
- Notebook Computers
- PDAs
- Mini DVD Players
- MP3 Players
- Any application with a rotating LCD



FEATURES AND BENEFITS

0.40mm (.016") Pitch Micro IDT Coaxial

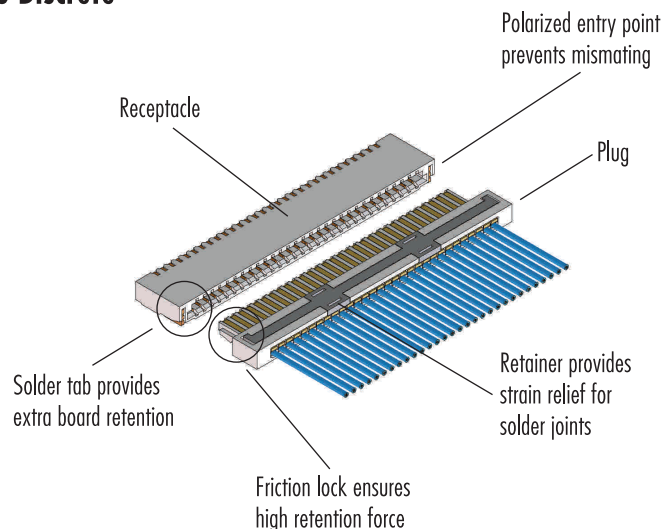
IDT Termination and Unique Grounding Features Provide Superior Shielding and Signal Integrity



Smooth Handling Around Turns

Molex's Micro IDT Coaxial wire-to-board system can route signaling through tight twists and turns better than FPC.

0.50mm (.020") Pitch Micro Discrete

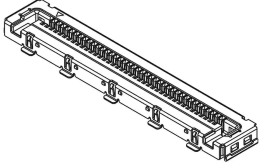
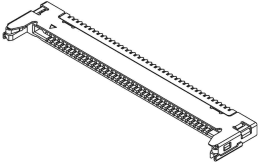
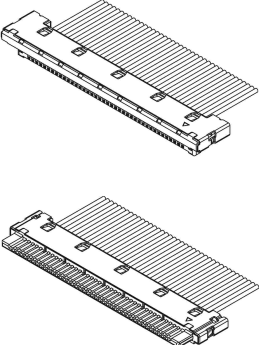


SELECTION MATRIX

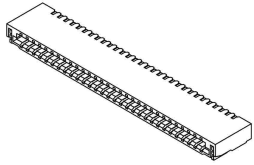
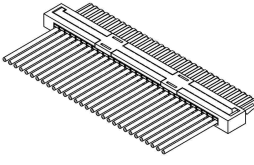


0.40mm Pitch Micro IDT Coaxial and 0.50mm Pitch Micro Discrete Wire-to-Board Connector Systems

0.40mm (.016") Pitch Micro IDT Coaxial

	Description	Order No.	Circuits
	PCB Receptacle, SMT, Top Entry	501083-**10	40
	PCB Receptacle, SMT, Side Entry	501044-**10	40
	Cable Assemblies Custom configurations include: Side Entry-to-Side Entry Top Entry-to-Side Entry Top Entry-to-Top Entry Contact Molex for Ordering Details	Note: Cable assemblies for our Micro IDT Coaxial product range will often require custom lengths and other specific requirements. Please contact your Molex representative for ordering details.	40

0.50mm (.020") Pitch Micro Discrete

	Description	Order No.	Circuits
	PCB Receptacle, SMT	500678-**70	20, 30
	Cable Assembly	59205-9401 (20 circuits) 59205-9402 (30 circuits)	20, 30

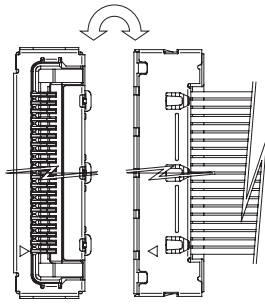
HOW TO MATE/UNMATE



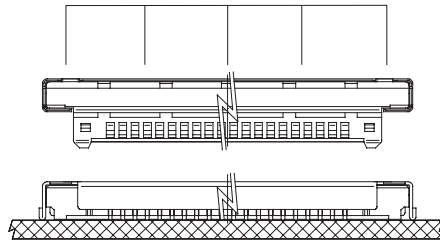
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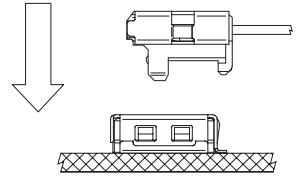
Mating



1) Align in parallel manner



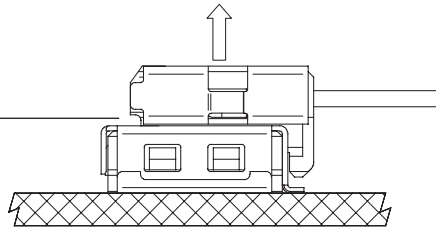
2) Push down across full top of connector face



3) Friction lock will provide a tactile feel when fully mated

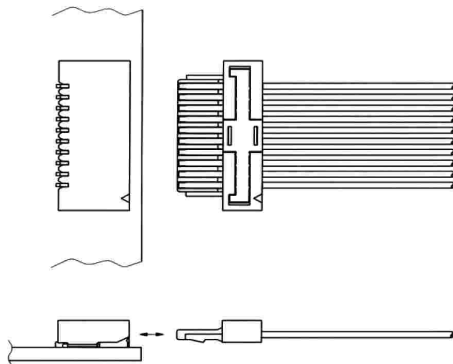
Unmating

Concave shape for extraction tool



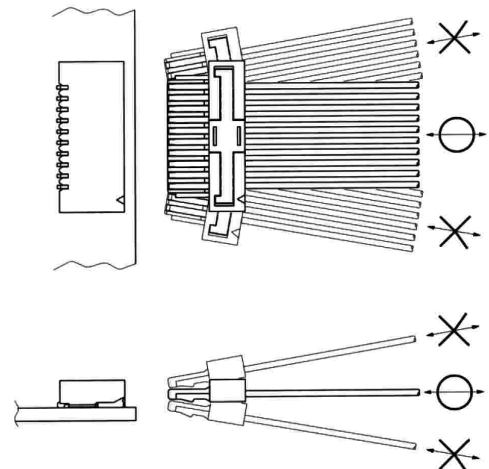
Use extraction tool to unmate in parallel manner. Do not pull on wires or twist the connector.

0.50mm (.020") Pitch Micro Discrete



Mating

Using thumb and forefinger, grip the connector housing in the center and insert connector in straight manner. Do not twist or turn when inserting.



Unmating

Grip the connector housing at the center with thumb and forefinger. Pull gently straight out. Do not pull on wires directly, or twist or turn connector when unmating.

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