



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

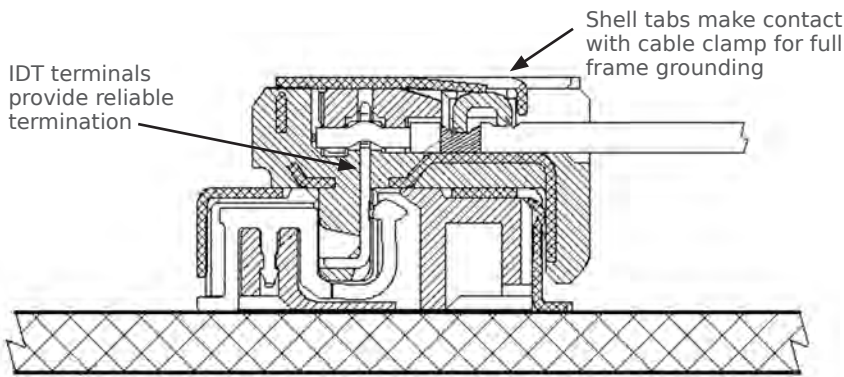
The 0.4mm Micro IDT Coaxial uses IDT technology to mass terminate the coaxial cable. The system includes both top and side entry style SMT PCB receptacles to meet various design needs. The connectors are fully shielded for EMI/RFI and noise protection and secure grounding. Along with top-and-side mount PCB connectors, the system also includes standard and custom-length IDT cable jumpers to fit various application needs.

Features and Benefits

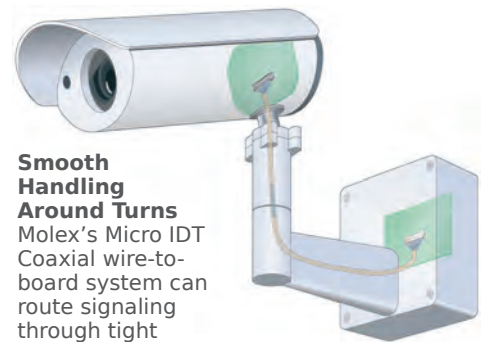
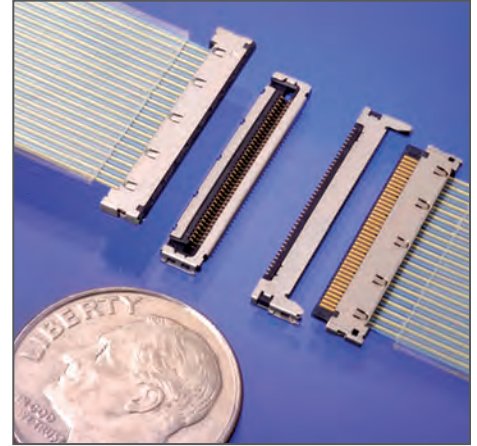
IDT Termination and Unique Grounding Features Provide Superior Shielding and Signal Integrity

"Double Clamp" Grounding Method Provides

- Secure electrical connection by clamping outer conductor
- Secure wire positioning and strain relief by clamping cable jacket



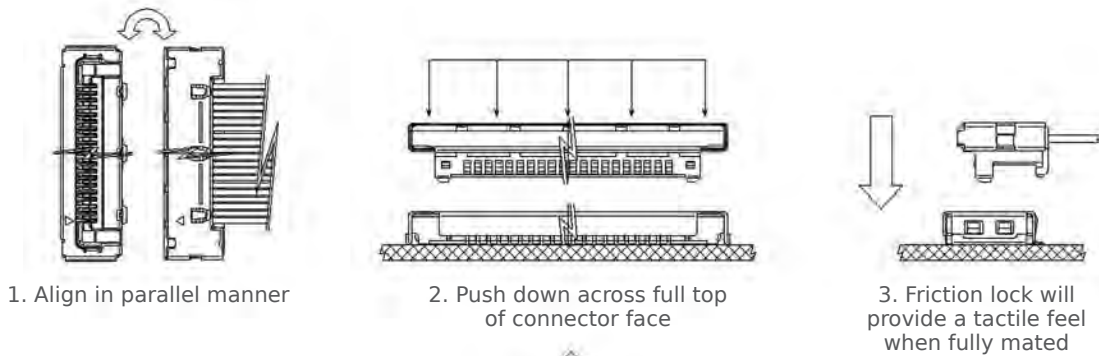
0.40mm Pitch Micro IDT Coaxial Wire-to-Board Connector System



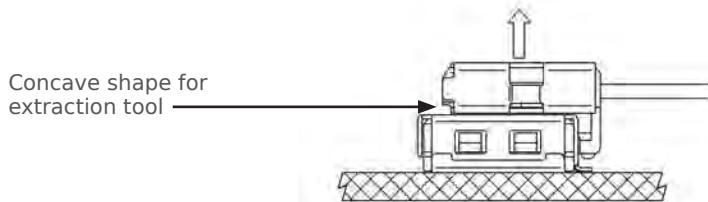
Smooth Handling Around Turns
Molex's Micro IDT Coaxial wire-to-board system can route signaling through tight twists and turns better than FPC.

Mating/Unmating

Mating



Unmating



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

Applications

Mobile Phones

Digital Cameras/Camcorders

Test Connectors for High Speed Applications

- Servers
- High-end Hard Drives

Notebook Computers

PDAs

Mini DVD Players

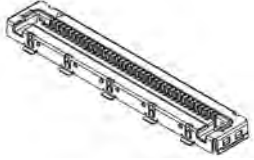
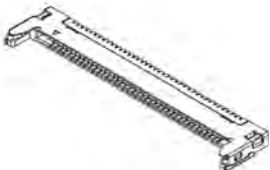
MP3 Players

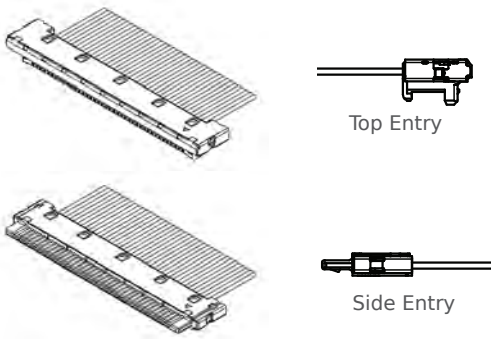
Any application with a rotating LCD

- automotive infotainment devices
- portable patient monitoring devices (medical)
- high resolution goggles
- military and aerospace radios and portable devices
- network cameras (surveillance, video conferencing)

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Selection Matrix

PCB Receptacles	Description	Order No.	Circuits
	PCB Receptacle, SMT, Top Entry	501083-3010	30
		501083-4010	40
		501083-5010	50
	PCB Receptacle, SMT, Side Entry	501044-3010	30
		501044-4010	40
		501044-5010	50

Standard-Length IDT Cable Jumpers	Configuration		Circuits	Wire Length	Order No.
	Side entry	Side entry	30	100.00mm	501800-3030
	Side entry	Top entry			501800-3031
	Top entry	Top entry			501800-3032
	Side entry	Side entry	40		501800-4030
	Side entry	Top entry			501800-4031
	Top entry	Top entry			501800-4032
	Side entry	Side entry	50		501800-5030
	Side entry	Top entry			501800-5031
Top entry	Top entry	501800-5032			

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.