

M225 Series Industrial High Performance Connectors

2mm Pitch Connectors for High Vibration and Automated Crimping

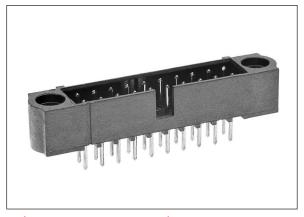
The M225 series of connectors is aimed at the industrial market, and is a 2.00mm pitch, high performance industrial connector range from Harwin. Designed to resist industrial levels of vibration and shock, in a practical package suitable for automated assembly at high volume.

This cable-to-board, double row design mates a throughboard PCB male connector to a choice of crimp contacts, accommodating 22 to 28AWG wires on the female connector. The female crimp contacts are available in both loose (for prototyping) and reeled (for high-volume automation) packaging, and a hand crimp tool can be ordered for low-volume work.

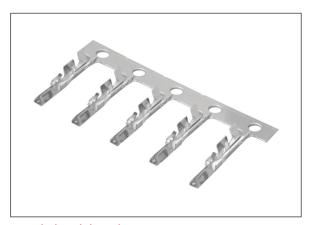
To meet the higher requirements of vibration, shock and acceleration for industrial products, the contact style utilises three contact surfaces touching the mating male contact. Added security is optionally provided with a unique and simple connector locking mechanism fitted to the female housing, which is engaged by pressing home a pin on either end of the connector.

Features and Benefits	
3A per signal contact (all electrically loaded; 3.3A per individual contact) at 2mm pitch	Capable of signal and low power within a compact design, saving PCB real estate
Innovative 3-finger stamped single-piece contact design	Supplied in bandolier/carrier strip format for easy use on automated crimping systems
Polarized housings with shrouded contacts	Prevents accidental damage and incorrect mating orientations for ease of assembly
Expanding rubber locking fixing	Fast and secure connection between mated connectors, resistance to vibration
From a manufacturer of avionics-grade connectors	High quality manufacturing with modern production standards, EN9100 approval

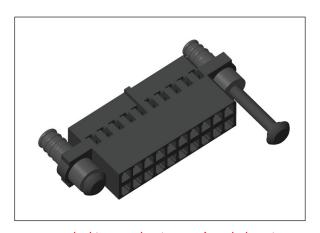
Key Applications	
Industrial	Factory and mobile machinery, Control panels and sub-systems, Drives, Robotics and other automation
Instrumentation	Test equipment, Portable hand-held devices
Site Control	Remote control devices, ground and machinery monitoring



Male PCB Connector - vertical, 20 contacts



Female bandoliered crimp contact



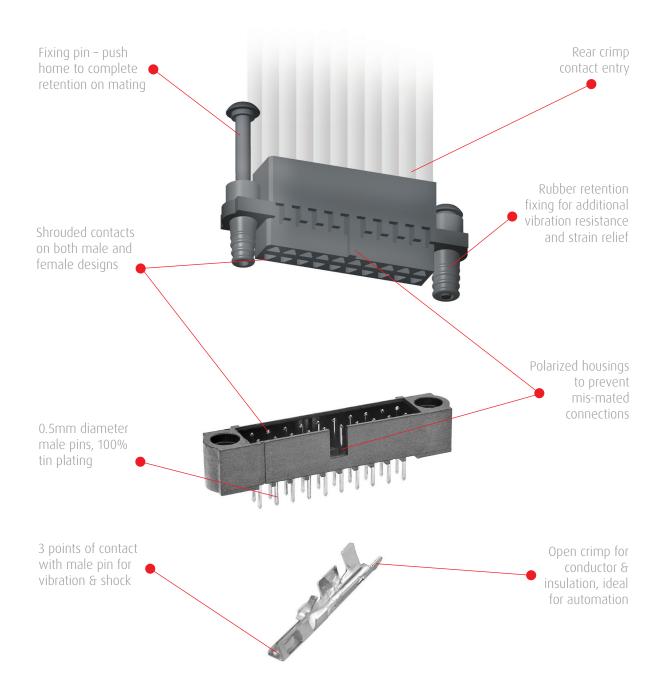
Connector locking mechanism on female housing



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Product Features



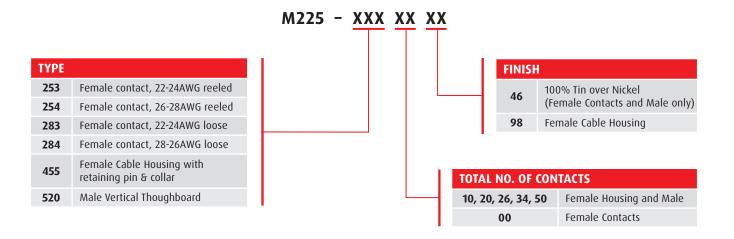
New Product Announcement



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How to Order



Tooling

Z80-255 - Hand Crimp Tool

Z80-258 - Crimp Removal Tool

Specifications							
Electrical		Mechanical & Environmental		Physical			
Current Rating	3A per contact	Number of Mating Cycles	50	Housing, Fixing Pin	Glass-filled High Temperature Plastic UL94V-0		
Working Voltage	800V AC/DC	Temperature Range	-55°C to +125°C	Contacts	Copper alloy, 100% Tin plating		
Maximum Voltage	1200V AC/DC	Insertion Force	2.8N max	Fixing Collar	Fluroelastomer Polymer (FPM)		
Contact Resistance	25mΩ max	Withdrawal Force	0.2N min				
Insulation Resistance	100MΩ min	Vibration	10G, 6 hours total				