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ITT Interconnect Solutions
Cannon, VEAM, BIW
Connector System

Global Design & Manufacturing

Customer Support



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Cannon

Micro D-Subminiature MDM Series

Maintaining reliability and saving space for
the high performance connector market

Features & Benefits



ENGINEERED FOR LIFE

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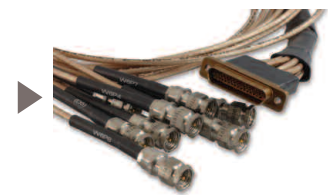
ENGINEERED FOR LIFE

Micro D-Subminiature MDM Series – Assuring 100% reliability in over 5,000 missile launches

Micro D-Subminiature MDM Series has produced many product extensions since its introduction to the miniature technology marketplace over 60 years ago, offering unique mechanical engagement and locking mechanism to meet the demand of harsh environment applications.

The MDM D-Subminiature MDM Series is designed to meet applications requiring reliable, extremely small and lightweight form factors. This high density rectangular form factor meets the increasing demand for environmentally safe, rugged and moisture-sealed microminature connectors.

As a founder in the connector industry, ITT's Micro line is applicable for the defense, military and commercial aviation, industrial, and medical environments. With a global engineering team that has centuries of combined experience, ITT is a leader in designing custom connectors and sophisticated custom cable assemblies.



Turnkey Cabling

Turnkey cable assemblies for all of ITT's Micro and high density Nano connectors allow customers a breadth of assemblies in 0.075, 0.050 and 0.025 contact spacing.



Twist Pin Technology

Originally developed by ITT, the twist pin contact offers a superior electrical and mechanical system that outperforms traditional machined or stamped electrical contact systems.



Space Grade Cable Assemblies

All of ITT's Space rated micro interconnect assemblies utilize ITT QPL M83518 connectors to meet the most stringent performance requirements.

Why customers benefit from choosing ITT's MDM Micro

- Aluminum shell with multiple plating options
- Uses high performance twist pin contact technology
- Available in high temperature (200°C) and non-magnetic versions

Technical overview

- ⊗ Mixed power, coax and signal layouts
- ⊘ Wire range AWG 30 – 24 (AWG 16 Power)
- ⚡ Current rating 3A / max. voltage 600 VAC (40A Power)
- 🌡️ -40°C to +125°C (200°C available upon request)



Jackscrew Series

Micro jackscrews provide reliable interconnects for board-to-board, board-to-cable and in-line cable-to-cable applications.



Printed Circuit Board

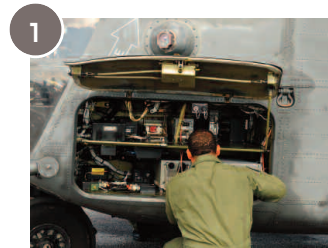
Available in 8 shell sizes the PCB connectors are also available with jackpost mounting for use with locking hardware.



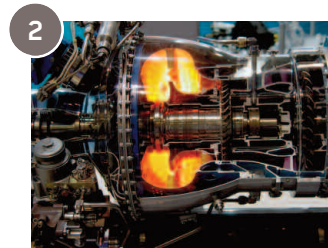
Custom Cable Assemblies

ITT offers multiple contact systems where signal speed, coax and power contacts can be incorporated into a complete cable assembly solution.

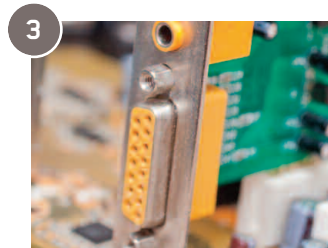
Delivering a durable, reliable and innovative product for harsh environment applications



The metal shell provides **greater strength, prevents chips, cracks or breaks** resulting in a longer life-span and mechanical defects.



MDM's **extremely small and lightweight** form factor can accommodate from 9 to 100 contacts for reliable power in small spaces.



Flex circuitry and high reliability in high density are met with **board-to-board, board-to-cable and cable-to-cable** assemblies.



The Micro **contact system** allows use in areas not normally designated such as **high temp oil field electric logging** operations.

Product Portfolio

	Micro
Contact Resistance	8 milliohms max.
Contact Material	Gold plated copper alloy
Shell Material	Aluminum
Plating Options	Electroless Nickel, Cadmium/Yellow Chromate over Nickel, Gold over Nickel, Iridite/Alodine, Black Anodize
Available Layouts	9, 15, 21, 25, 31, 37, 51, 100, 7C2*, 10C10*, 16C5*, 24C4*
Configuration	Polarized D
RoHS	Available
Factory Terminated	Yes*

*Solderpot versions available for end user termination.

*C-Coax, P-Power, C is interchangeable with P depending on contact.