



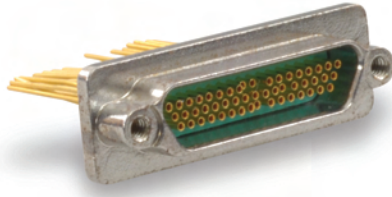
# ITT

Interconnect Solutions  
Cannon, VEAM, BIW

Assuring **100% reliability**  
in over **5,000** missile launches  
to our armed forces and global allies



*Engineered for life*



MDMH connectors are ideal for applications requiring a better seal than can be achieved with epoxy resins.

The connector utilizes size 24 AWG contacts that are compression glass sealed through a steel shell and into a diallyl pthalate front end insulator. An interfacial seal provides environmental protection when mated. We recommend MDMH receptacles be soldered to the chassis or container for a completely leak-proof joint.

MDMH receptacles mate with standard MDM plugs.

## Features

- Hermetically sealed connector designed for those applications where a vacuum, inert gas or a constant controlled pressure are required to eliminate adverse effects created by atmospheric changes.
- Steel shells to provide greater strength, prevent chipping, cracking or breaking, offer electro-magnetic (EMI) and RFI shielding.
- Silicone elastomer compression interfacial seal to provide a moisture and humidity seal between each contact and between contacts and shell.

## Specifications

### Standard materials & finishes

Shell	Mild steel, tin-lead plated
Insulator	Glass filled diallyl pthalate per MIL-M-14. Type SDGF
Contacts	Copper alloy, gold plated sockets on mild steel gold plated pins. Solder pots - mild steel gold plated
Hermetic seal	Compression glass
Leak rate	1 micron cubic ft/hr max (1.04 x 10 <sup>-5</sup> cc/sec at 1 ATM pressure differential)
<b>ELECTRICAL DATA</b>	
No. of contacts	9 to 100
Dielectric withstanding voltage	150 VAC
Insulation resistance	5000 Mohm minimum
Wire size	#26 through #30 AWG
Contact termination	Solder pot
<b>MECHANICAL FEATURES</b>	
Size or length	8 sizes
Service class	Hermetically sealed
Coupling	Friction/jacks
Polarization	Keystone shaped shells
Contact spacing	.050 (1,27) centers
Shell style	Receptacle, solder mount



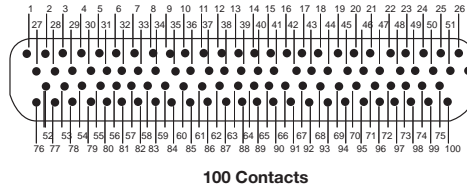
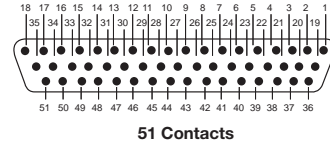
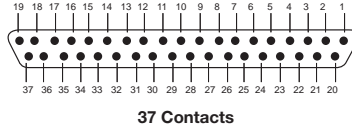
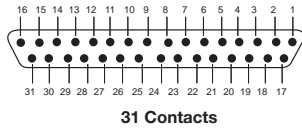
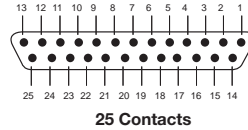
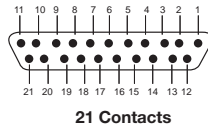
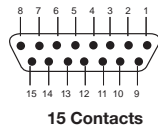
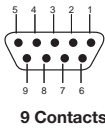
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## How to Order



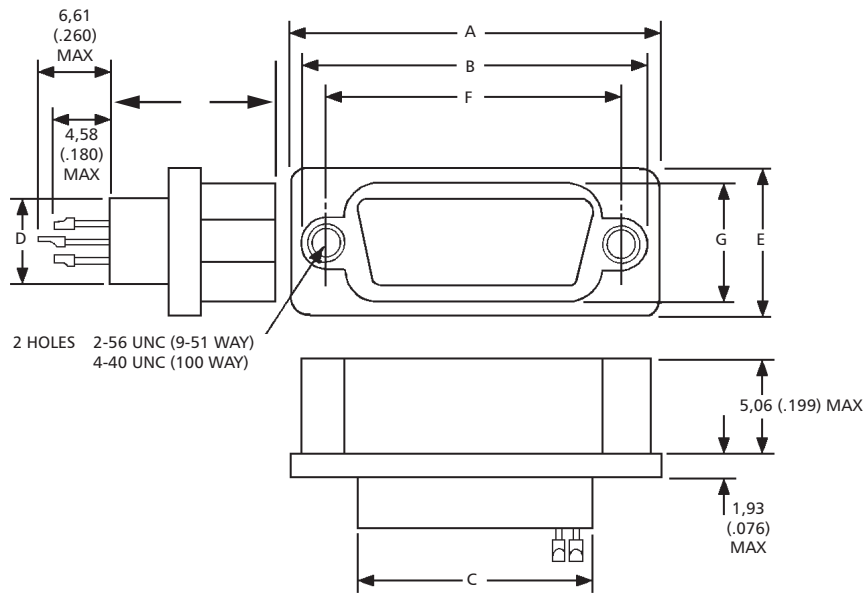
## Contact Arrangements

Face view of socket insert - use reverse order for wiring side.



Contact identification numbers are for reference only and do not appear on insulator or connector body.

## Shell Dimensions



Part Number by shell size	A max	B max	C max	D max	E max	F ±.005 (0,13)	G max
MDMH-9S	.885 (22,48)	.738 (18,74)	.400 (10,16)	.270 (6,86)	.430 (10,92)	.565 (14,35)	.261 (6,63)
MDMH-15S	1.035 (26,29)	.888 (22,55)	.550 (13,97)	.270 (6,86)	.430 (10,92)	.715 (18,16)	.261 (6,63)
MDMH-21S	1.185 (30,10)	1.038 (26,36)	.770 (17,78)	.270 (6,86)	.430 (10,92)	.865 (21,97)	.261 (6,63)
MDMH-25S	1.285 (32,64)	1.137 (28,87)	.800 (20,32)	.270 (6,86)	.430 (10,92)	.965 (24,51)	.261 (6,63)
MDMH-31S	1.435 (36,45)	1.288 (32,72)	.950 (24,13)	.270 (6,86)	.430 (10,92)	1.115 (28,32)	.261 (6,63)
MDMH-37S	1.585 (40,26)	1.438 (36,53)	1.100 (27,94)	.270 (6,86)	.430 (10,92)	1.265 (32,13)	.261 (6,63)
MDMH-51S	1.535 (38,99)	1.388 (35,26)	1.050 (26,67)	.310 (8,00)	.473 (12,01)	1.215 (30,86)	.315 (8,00)
MDMH-100S	2.275 (57,78)	2.078 (52,78)	1.455 (36,97)	.365 (9,27)	.522 (13,26)	1.800 (45,72)	.410 (10,41)