

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 phthalate 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 10-5 cc/sec at 1 ATM pressure differential)
ELECTRICAL DATA	
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
MECHANICAL FEATURES	
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

How to Order

MDMH – 51 S S

Hermetic Micro D Receptacle Series

Contact layout
9, 15, 21, 25, 31, 37, 51, 100

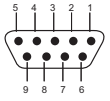
Socket Contacts (only)

Termination type

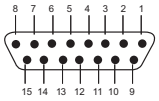
Dimensions shown in inch (mm)
Specifications and dimensions subject to change

Contact Arrangements

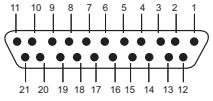
Face vew of socket insert - use reverse order for wiring side.



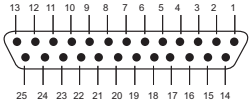
9 Contacts



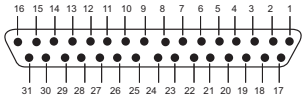
15 Contacts



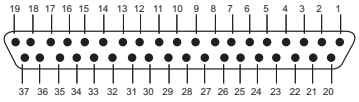
21 Contacts



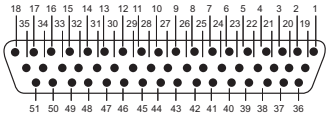
25 Contacts



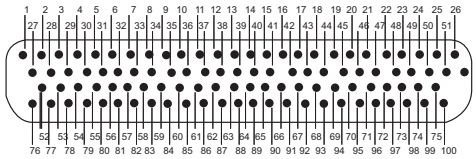
31 Contacts



37 Contacts



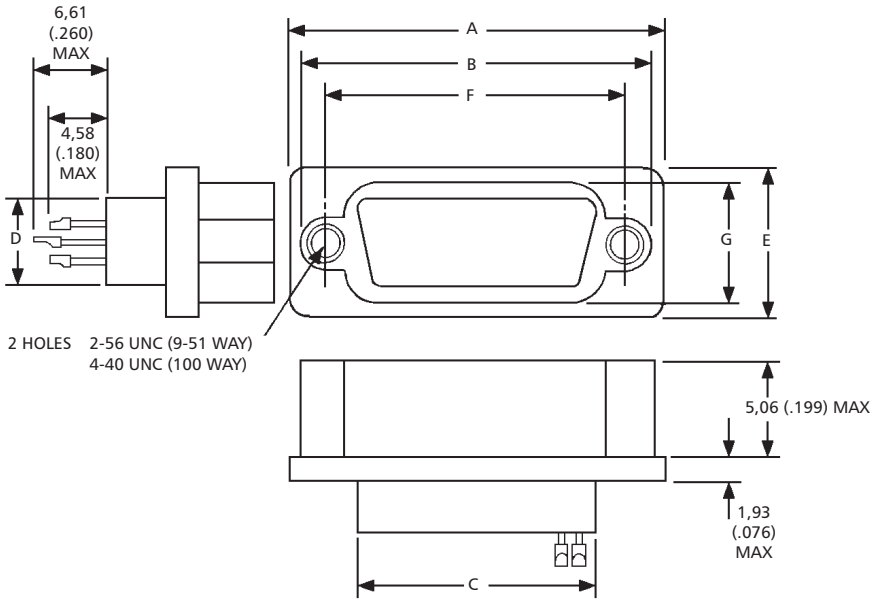
51 Contacts



100 Contacts

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)