

M Series

High Voltage Miniature / #20 Contacts / .040" Dia. / 7.5 Amps



M4PLSH10

Plug with lock spring and hood



M4SLRGN

Receptacle with lock ring, ground lug and nut



M10SLRN

Receptacle with lock ring and nut



M10PLSH19

Plug with lock spring and hood



N

Nylon Nut



M12SLS12

Receptacle with lock spring



M12P

Plug



M12H

Hood with lock shell

The extreme compactness and lightweight of M connectors make them ideal for such applications as strain gauges, telemetry and pressure pick-up installations in aircraft, portable equipment and instrumentation.

Specifications

Current Rating: 7.5 amps

No. of

Contacts: 4, 5, 7, 9, 10, 12

Pin Contacts: .040 dia. brass, gold plated

Socket

Contacts: Spring temper phosphor bronze, gold plated

Terminations: .048 dia. solder cup accepts up to #20 AWG stranded wire. M12 - .043 dia. solder cup accepts up to #20 AWG stranded wire.

Electrical Data: The dielectric withstanding voltage is one minute electrification at 1500 VAC. (2250 VAC for M12).

Dielectric: Brown mineral filled diallyl phthalate. Also available in gray glass filled diallyl phthalate, per MIL-M-14, SDG-F.

Polarization: Body design permits engagement in proper position only.

Mounting: For 1/16" panel mounting of either plug or receptacle use cadmium plated brass nut for M4-10, nylon nut for M12. Add "N" to code number.

Lock Ring (and lock spring): May be applied to plug or receptacle to stop connector rotation on panel. When engaged with lock spring, prevents accidental disconnection due to vibration, etc.

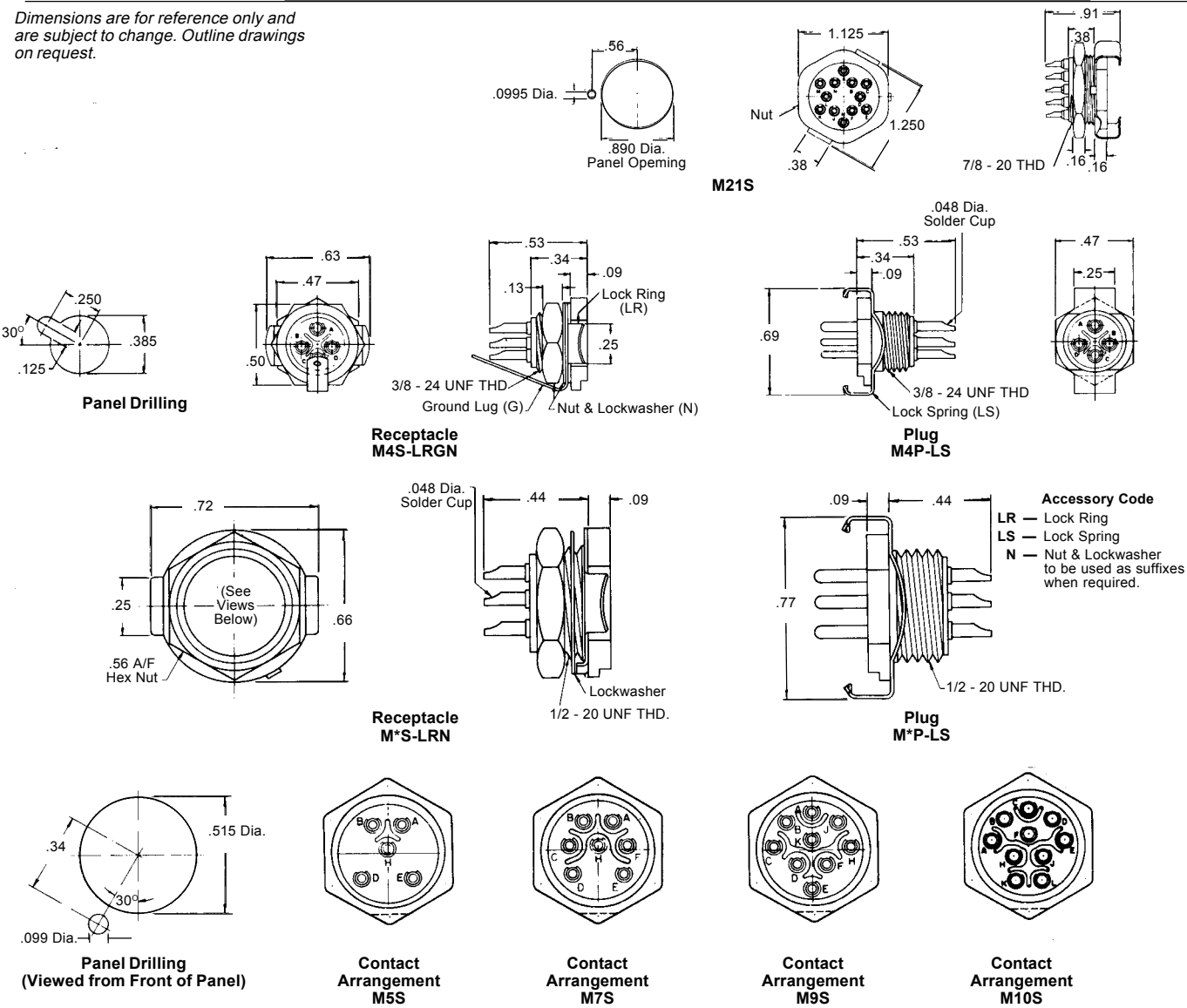
Ground Lug: Can be used to ground any of the 4 contacts on M4 connector. Add "G" to code number.

Hood: Anodized aluminum or brown mineral filled diallyl phthalate hoods may be applied to plug or receptacle of M4-M10. With or without cable clamps to provide additional strain relief for the cable.

M Series

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Contact locations are shown from terminal sides

NOTE: Contact arrangement of M*P are reversed

* Insert number, indicating number of contacts (5, 7, 9, 10)

Physical & Electrical Data

Catalog Number	Number of Contacts	Weight In Ounces						Solder Cup Hole Dia./in.	Current Rating
		Plug	Rec.	Nut	Lock Spring	Lock Ring	Lock Washer		
M4P M4S	4	.08	.06	.08	.02	.02	.01	.048	7.5 amps
M5P M5S	5	.10	.08	.06	.02	.03	.01	.048	7.5 amps
M7P M7S	7	.12	.10	.06	.02	.03	.01	.048	7.5 amps
M9P M9S	9	.13	.10	.06	.02	.03	.01	.048	7.5 amps
M10P M10S	10	.13	.10	.06	.02	.03	.01	.048	7.5 amps
M12P M12S	12	.3	.4	.05	.02	.03	.01	.043	7.5 amps

hoods are precision machined from bar stock to give greater strength than die cast units. Cable clamps are machined as an integral part of the connector. The set screw prevents accidental disassembly from vibration, etc. A polyethylene sleeve liner provides added insulation in the terminal area.

Dimensions are for reference only and are subject to change. Outline drawings on request.

H9, H10, H19

M12H

H9C, H10C, H19C, H19CS

H9S, H19S

HG9, HG18

HG9C

H14
For M4

H16
For M5, M7,
M9, M10

M Series

Physical Data

Hood Code Number	Used on of Connectors	DIMENSIONS						Weight In Ounces
		A	B	C	D	E	F-Thds	
H9	M5, 7, 9, 10	.14	.66	.66	.27	.88	1/2 - 20	.10
H10	M4	.16	.56	.69	.25	.75	3/8 - 24	.05
H19	M5, 7, 9, 10	.30	.66	.66	.42	.88	1/2 - 20	.08
H9C	M5, 7, 9, 10	.16	.66	.78	.55	.97	1/2 - 20	.11
H10C	M4	.19	.56	.69	.44	.88	3/8 - 24	.09
H19C	M5, 7, 9, 10	.30	.66	.78	.55	.97	1/2 - 20	.12
H19CS	M5, 7, 9, 10	.30	.66	.66	.55	.86	1/2 - 20	.11
H9S	M5, 7, 9, 10	.14	.66	.66	.55		1/2 - 20	.07
H19S	M5, 7, 9, 10	.30	.66	.66	.55		1/2 - 20	.06
HG9	M5, 7, 9, 10	.22	.66	.66	.59		1/2 - 20	.10
HG18	M5, 7, 9, 10	.28	.66	.66	.59		1/2 - 20	.11
HG9C	M5, 7, 9, 10	See Drawing						.14
H14	M4	See Drawing						.25
H16	M5, 7, 9, 10	See Drawing						.25
H12H	M12	See Drawing						1.10

Ordering Information

Omit steps not required

