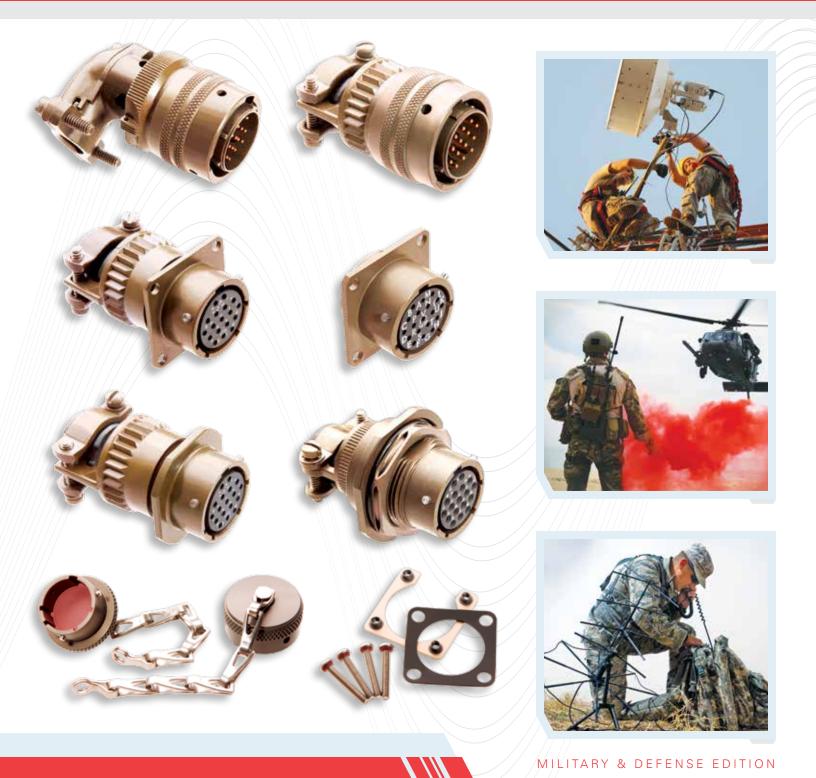


CONNECTING YOUR ENGINEERING PASSION



HM Series **MIL-DTL-26482** Series 1 MILITARY STYLE CONNECTORS

IP67 Rated Waterproof Connectors
 Covers, Gaskets, Mounting Plates
 Hermetic Receptacles, Tooling

About Us

ILNEC INTERCONNECT SYSTEMS is a leader in the design, manufacture, and supply of high-performance cylindrical interconnect systems. From research stations in the Antarctic to spacecraft on

the plains of Mars, our high-reliability connector systems conquer the most demanding environments. Milnec is a supplier to leading companies in 24 countries in the following industries:

- Military & Defense
- Aerospace & Space
- Railway & MassTransit
- Industrial & Heavy Equipment
- Alternative Energy, Nuclear, Oil & Gas

Logistics Solutions for Global Applications Global logistics and support means we deliver products on time every time to any destination. To support your immediate requirements, we have extensive inventories, making most systems readily available for today's compressed design and production schedules. On average, custom connector solutions made to your exact configuration ship within seven days from the time of order placement.

- Worldwide shipping (restricted to NATO countries only)
- Web access to inventory, prices, & delivery information
- A large stock of popular parts for greater availability
- Competitive pricing and short lead times
- Impeccable customer service & technical support

Milnec Interconnect Systems

3947 West Lincoln Highway #192 Downingtown, PA 19335

1-855-4MILNEC Toll Free (1-855-464-5632)

technical-support@milnec.com

U.S. Military Cage Code: 6STX5

NAICS Code: 423690

High Reliability-Simplified

Just because your interconnect problem is complicated does not mean acquiring the solution has to be. Milnec connector systems and our "all-in-one" kits provide engineers the most complete and professional connector solutions with ease and technical clarity.



- · Complete, high-reliability solutions
- Simple to understand technical data & configurations
- Online part builder tools, drawings, & documentation
- Field installable & serviceable

Performance With Environmental Responsibility

RoHS compliant products are available to support environmental responsibility and legislative conformity. Through simple modification codes, Milnec provides a wide variety of material options to easily provide customers with fully compliant and eco-friendly connector components.



- RoHS compliant materials & finishes
- Simple material modification codes
- Lead-free solder contacts

Highest Manufacturing Quality

We invest in the finest equipment and modern production processes to ensure that our connectors will exceed your quality and performance expectations. Our production processes include advanced computer numerical control machining, cosmetic and metal finishing, heat treatment, and stainless steel passivation.

- Traceability on 100% of the parts
- Quick production lead times
- Quantity support from R&D to production
- "Just-in-time" delivery, kitting, & special packaging
- Rapid tooling & prototyping for custom designs



Features & Benefits

HM Series • MIL-DTL-26482 Series 1 Type Connectors

MIL-DTL-26482 Series 1 Compliant Connectors

he HM Series of connectors is based on MIL-DTL-26482 Series 1 standards and is fully compatible with all military and commercial derivatives. These connectors feature bayonet coupling, high-density inserts with gold plated solder contacts, and an integrated environmental resistant backshell. In addition, the HM Series provides many modern options that are unavailable in the mil-spec, including thrubulkhead and hermetic receptacles, a large selection of insert arrangements, and a variety of protective accessories.





100% Mil-Spec Compatibility HM Series connectors are fully compatible with all MIL-DTL-26482 Series I standard connectors and commercial derivatives.

Complete IP67 Rated Waterproof Connector Kits

HM Series connectors can be easily configured as complete kits that include everything you need for a reliable, IP67 rated environmental interconnect solution. Simply select the desired kit option on the part builder and your connector will come with all the matching sealing accessories you need for complete protection, right out of the box!

- Integrated environmental backshells ٠
- Protective covers
- Sealing gaskets
- Mounting brackets with locking nuts
- Sealing screws



About Us	H-1
Features & Benefits	H-2
Component Overview	H-3
Series Specifications	H-4
Materials & Finishes	H-6
Part Builder	H-8
Insert Arrangements & Rotations	H-9
Insert Arrangement Drawings	H-10
Contact Specifications	H-11
(HM06) Straight Plug	H-12
(HM08) 90° Plug	H-13
(HM00) Wall Mount Receptacle	H-14
(HM02) Box Mount Receptacle	H-15
(HM07) Jam Nut Receptacle	H-16
(HM01) Cable Mount Receptacle	H-17
(HM22) Thru-Bulkhead Receptacle	H-18
(HM12) Box Mount Receptacle (Hermetic)	H-19
(HM13) Jam Nut Receptacle (Hermetic)	H-20
(HM19) Solder Mount Receptacle (Hermetic)	H-21
(HMCP) Protective Covers	H-22
(HMCD)Stowage Receptacle	H-23
(HMGE)Mounting Gasket	H-24
(HMMB)Mounting Bracket & Screws	
Soldering Station	H-26

More Options for Complete Design Flexibility

With today's advanced electronic designs, engineers demand more options. HM Series connectors provide you with the most complete offering of shell options, materials, finishes, and accessories unavailable in the military specification.

- More shell options, including thru-bulkheads
- Alternate material & RoHS compliant platings
- Specialized hermetic receptacles

NEC.CON

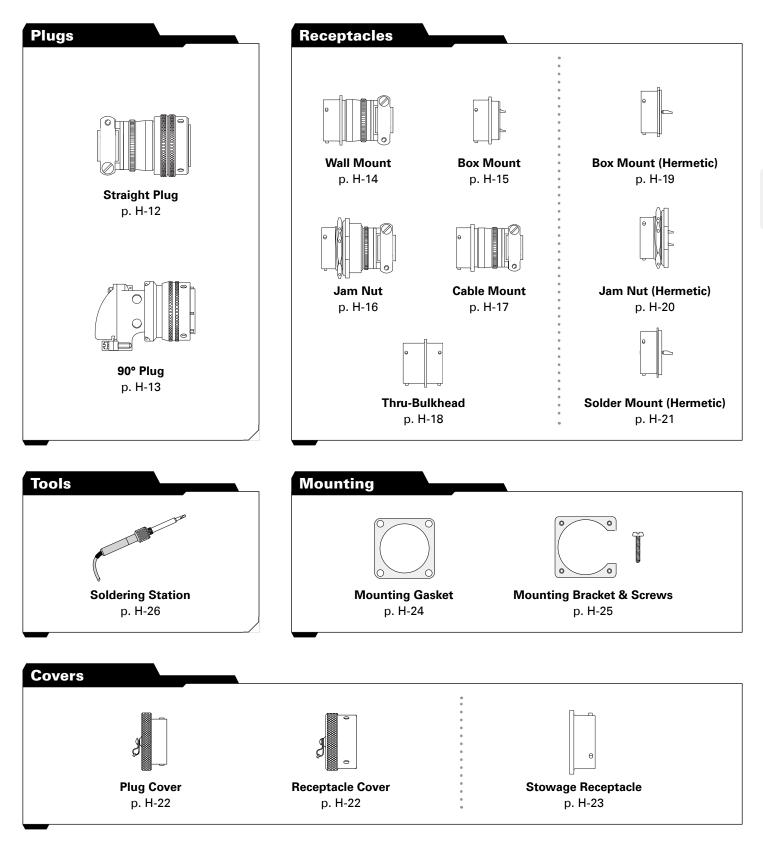
Complete set of sealing accessories

Wide Variety of Connector Shells Choose from a variety of shell styles for specialized applications, including 90° plugs and hermetic and thru-bulkhead receptacles.



Component Overview

HM Series • MIL-DTL-26482 Series 1 Type Connectors





Series Specifications

HM Series • MIL-DTL-26482 Series 1 Type Connectors

Performance Specifications

Built to meet or exceed MIL-DTL-26482 specifications and is guaranteed fully compatible and interchangeable with respect to physical and performance characteristics with all existing MIL-DTL-26482 Series I military and commercial derivatives

Environmental Characteristics

Temperature Range

-67° to +257°F (-55° to +125°C)

Service life varies with the maximum internal hot spot temperature resulting from any combination of electrical load or ambient temperature:

77°F (25°C): Continuous

221°F (105°C): 1,000 hours 257°F (125°C): 250 hours

Water Pressure

IP67 rating (environmental sealing)

Fully submersible to 3.3 ft (1m) for minimum of 30 min

Air Leakage Rate

Environmental

Air leakage not to exceed 1 inch³/hr (4.55 x10⁻³ cm³/sec) at 30 psi (2.11 kg/cm²) pressure differential

Hermetic

Helium leakage not to exceed 0.1 micron per ft³/hr (1.0 x10⁻⁶ cc³/sec) at 15 psi (1.1 kg/cm²)

Salt Spray Rating

See Materials & Finishes, p. H-6

Humidity

Mated connectors shall maintain an insulation resistance of 100 megohms or greater at 77°F (25°C) with 95% humidity for duration of 20 days

Chemical Resistance to Fluids

20 hour full immersion (unmated) in hydraulic fluid and lubricating oil without damage or material degradation

Physical Characteristics

Coupling

Three-point bayonet, stainless steel bayonet pins spaced at 120° on receptacle shells, corresponding ramps on plug coupling ring with locking detent 1/3 turn to couple and uncouple

Coupling Torque

Polarization

Single master key and keyway on top position of shell Four minor keys and keyways on shell

Insert Arrangements

30 standard, custom inserts available

Insert Rotations

Normal polarization (N), plus 4 alternate insert rotational polarizations (W, X, Y, Z)

Endurance Characteristics

Coupling Cycles

500 coupling cycles (minimum)

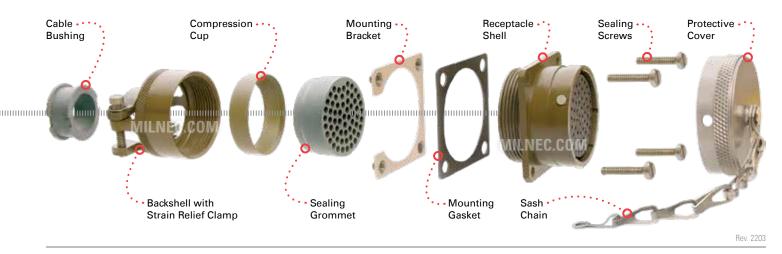
Shock

50g's, 11ms duration, three major axes,

10 microseconds maximum discontinuity

Vibration

Random vibration at 10 to 2,000Hz (15g's), 10 microseconds maximum discontinuity





Series Specifications

HM Series • MIL-DTL-26482 Series 1 Type Connectors

Material Characteristics

Shell

Environmental

Aluminum, solid, one piece, seamless construction **Hermetic**

Carbon steel or stainless steel (special order)

Shell Plating

Environmental

Standard (F) finish is electrically conductive cadmium plate finish with an olive drab chromate after-treat for additional corrosion resistance

(See p. H-6 for all available finishes)

Hermetic

Tin plate over nickel (H) finish, suitable for soldering

Shell Conductivity

Maximum shell-to-shell conductivity potential drop shall not exceed 200 millivolts across assembly

Jam Nut

Aluminum

Bayonet Pins

Passivated stainless steel

Insert

Resilient polychlorophrene (neoprene)

Non-removable and mechanically bonded to shell

Hermetic Insert

Vitreous (glass compression)

Non-removable and mechanically bonded to shell

Protective Cover Chain

Passivated stainless steel, sash chain able to withstand a 25 lb (11.3 kg) tensile force without damage

Sealing Grommet

Neoprene

O-Ring Seal

Neoprene or silicone

Mounting Gasket

Neoprene or silicone

Contact Characteristics

Contact Design
Solder style, permanently bonded to insert
Solder cups are not pre-tinned
Contact Sizes
#16, #20
Contacts
Copper alloy
Contact Plating
Environmental
Gold plate, 50 µinches (1.27 µm) minimum
Hermetic
Tin plate, 50 μinches (1.27 μm) minimum
Gold plated contacts (special order)
Max Number of Contacts
2 to 61 standard, custom inserts available
Max Contact Resistance
9 milliohm maximum resistance
Max Voltage Drop
<55 millivolt maximum voltage drop (initial)
Contact Retention
Pin and socket contacts are designed to resist severe

Pin and socket contacts are designed to resist severe vibration and repeated connection and disconnection

Electrical Characteristics

Current Rating

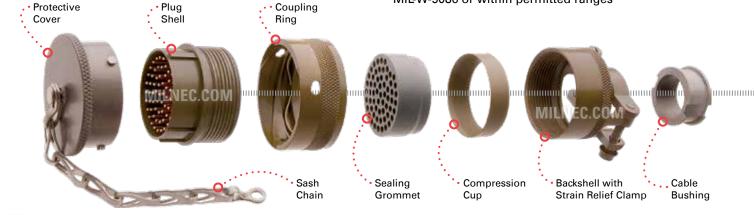
13 amps (test current) at 68°F (20°C) Max Operating Voltage 1,000 VAC (RMS) at sea level Insulation Resistance >5,000 megohms at 77°F (25°C)

Wire Size

16 to 24 (AWG)

Wire Sealing Range

Designed for individual wire sealing Sealing is only guaranteed if wires meet MIL-W-5086 or within permitted ranges





HM Series • MIL-DTL-26482 Series 1 Type Connectors

HM Series Finishes

connector's finish does more than simply provide good looks. The finish is the first line of defense for a connector. It provides enhanced corrosion resistance and can be made conductive to provide electrical continuity across connector shells for EMI/RFI shielding applications. Olive drab cadmium is the standard finish for the HM Series.

Olive drab cadmium offers excellent corrosion resistance and will match the aesthetic design of most industrial and military applications. In addition to the standard finish, a number of specialty finishes are available for the HM Series, including RoHS finishes for legislative compliance and environmental responsibility.

Standard HM Series Materials & Finishes

Finish Code	Finish	Hermetic Only	Electrically Conductive	Pre-Tinned Solder Cups	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
F	Olive Drab Cadmium		\checkmark	\checkmark		Drab Olive Green	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
Н	Tin Over Nickel	\checkmark		✓		Bright Metal	Carbon Steel	48 hrs	-67° to +392°F (-55° to +200°C)

Special HM Series Materials & Finishes*

Finish Code	Finish	Hermetic Only	Electrically Conductive	Pre-Tinned Solder Cups	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
В				✓		Create Dia ala		000 has	
BA	Hardcoat Anodize				\checkmark	Grey to Black	Aluminum	336 hrs	-67° to +257°F (-55° to +125°C)
N	Electroless Nickel		~	✓		Bright Motol	A	um 48 hrs	
NA			v		✓	Bright Metal	Aluminum		-67° to +257°F (-55° to +125°C)
C				✓		Black	Aluminum	n 125 hrs	-67° to +257°F(-55° to +125°C)
CA					\checkmark				
CB	Zinc Cobalt			✓					
CC	-		v		\checkmark	-			
Т				✓		0	A I	500 h	
TA	- Hard Anodic				\checkmark	Grey	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
HA	Passivated	\checkmark	\checkmark		\checkmark	Matte Metal	SST Steel	1,000 hrs	-67° to +392°F (-55° to +200°C)
Р	Olive Drab Cadmium With Potting Boot		\checkmark	\checkmark		Drab Olive Green	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)

* Please consult an authorized distributor for lead time information and minimum quantity requirements for special order finishes.

Olive Drab Cadmium-Durable & Economical

Olive drab cadmium (F) plating is the standard finish for HM Series connectors due to its high corrosion resistance. This finish is conductive, making it suitable for shielding or grounding applications, and is resistive to galling. Its olive drab appearance matches most equipment. Olive drab cadmium is suitable for all general duty, industrial, military, and marine applications.

- SAE-AMS-QQ-P-416 II Class 2 Finish Specification:
- Appearance:
- Sheen:

•

Military Olive Drab Green Flat, Low Gloss

500 hours

- 347°F (175°C) Max Temp. Rating:
- Salt Spray Rating:
- Lubricity:
- Good • Galling Resistance: High
- Conductive:
- Yes **RoHS Compliant:** No

RoHS Compliant Parts

Milnec provides a full offering of RoHS compliant finishes in conductive and non-conductive versions to

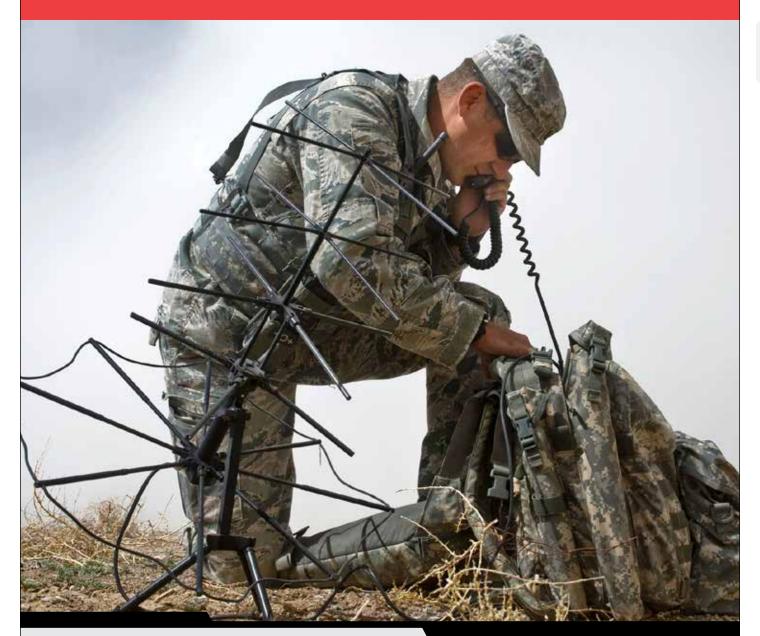


best suit your application requirements.

Please consult the latest European Union general and regional regulations to ensure materials are appropriate for your application and compliance requirements.



CONNECTOR SELECTION IS CRITICAL MAKE THE RIGHT CALL



Connectors For Military Applications

We specialize in providing engineers with ruggedized cylindrical connectors built to meet military specifications. In addition, we offer a wide selection of protective accessories, backshells, and mounting hardware for even greater battlefield reliability. When specifying connectors for your next application, make the right call — Milnec.



Part Builder

HM Series • MIL-DTL-26482 Series 1 Type Connectors

How to Build Your HM Connector Part Number

part number is comprised of a string of characters that represent the different elements of a connector. High-performance connectors are built to order from component form using a unique part number as a blueprint to specify particular characteristics. Each modifier of the part number represents a particular configuration.

Below is an example part number for an HM Series connector that designates, 1) Milnec HM Series wall mount receptacle, 2) olive drab cadmium finish over aluminum, 3) 14-18 insert arrangement, 4) socket contacts, 5) normal rotation, and 6) integrated kit including cover and mounting gasket.

Series She	ell Style		4 0	Contact	: Style		
Standard	Environmental Shells			Standa	rd Solder Contacts		
HM06	Straight plug w/ backshell, p. H-1:	2		Р	Pin		
HM08	90° plug w/ backshell, p. H-13			S	Socket		
HM00	Wall mount recept. w/ backshell, j	p. H-14		Hermet	ic Receptacle Solder Contacts		
HM01	Cable mount recept. w/ backshell,	р. Н-17		Р	Pin only, tin plated (standard)		
HM02	Box mount receptacle, p. H-15			G*	Pin only, gold plated		
HM07	Jam nut receptacle w/ backshell,	p. H-16			se consult an authorized distributor for lead time minimum quantity requirements.		
Hermetic	Receptacle Shells						
HM12	Box mount receptacle, p. H-19						
HM13	Jam nut receptacle, p. H-20		5 Insert Rotation				
HM19	Solder mount receptacle, p. H-21		Normal Rotation N Normal rotation				
	dard shell styles, including thru-bulkhead receptacles, becific datasheet for part numbering and kitting options.						
picase see s					ate Rotations		
					(, Y, Z Alternate rotations		
Material 8	Finish				ert Arrangement Selection table on p. H-9. I rotations are available for every arrangement.)		
F	Olive drab cadmium (aluminum)						
•	500 hr. dynamic salt spray rating	a					
н	Tin over nickel (carbon steel)		a) (Optiona	Accessory Kit (Omit for None)		
	(Hermetic receptacles only)			01	For Plugs:		
	48 hr. dynamic salt spray rating				Protective cover, p. H-22		
For complete	materials and finishes options, including RoHS, see p. H-6.			02	For Receptacles:		
					Protective cover, p. H-22 +		
					Mounting gasket, p. H-24		
	& Insert Arrangement			03	For Receptacles:		
See Insert	ert Arrangement Selection table, p. H-9				Protective cover, p. H-22 +		
					Mounting gasket, p. H-24 +		
					Mounting bracket, p. H-25 with (4x) sealing screws		

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Insert Arrangements & Rotations

HM Series • MIL-DTL-26482 Series 1 Type Connectors

Selecting Your Insert Arrangement & Rotation

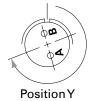
Below is a chart that represents every available shell and insert arrangement within the series. To choose the proper insert arrangement, you must first distinguish your application requirements for contact size and amount. Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements.

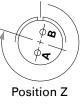


Position W



Position X





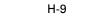
Looking into front face of pin insert or rear of socket insert.

Insert Arrangement Selection

Insert	Total	Conta	ct Size	Service		Alternate Insert Rotation			
Arrangement	Contacts	#20	#16	Rating	w	x	Y	Z	
8-2	2	2		I	58°	122°			
8-3	3	3		I	60°	210°			
8-4	4	4		I	45°	97°	184°		
10-6	6	6		I	90°				
10-98	6	6		I	90°	180°	240°	270°	
12-3	3		3	II			180°		
12-8	8	8		I	90°	112°	203°	292°	
12-10	10	10		I	60°	155°	270°	295°	
14-5	5		5	Ш	40°	92°	184°	273°	
14-12	12	8	4	I	43°	90°			
14-15	15	14	1	I	17°	110°	155°	234°	
14-18	18	18		I	15°	90°	180°	270°	
14-19	19	19		I	30°	165°	315°		
16-8	8		8	II	54°	152°	180°	331°	
16-23	23	22	1	I	158°	270°			
16-26	26	26		I	60°		275°	338°	
16-99	23	21	2	I	66°	156°	223°	340°	
18-11	11		11	II	62°	119°	241°	340°	
18-30	30	29	1	I	180°	193°	285°	350°	
18-32	32	32		I	85°	138°	222°	265°	
20-16	16		16	II	238°	318°	333°	347°	
20-24	24	24		I	70°	145°	215°	290°	
20-27	27	27		I	72°	144°	216°	288°	
20-39	39	37	2	I	63°	144°	252°	333°	
20-41	41	41		I	45°	126°	225°		
22-21	21		21	Ш	16°	135°	175°	349°	
22-32	32	32		I	72°	145°	215°	288°	
22-41	41	27	14	I	39°	135°	264°		
22-55	55	55		I	30°	142°	226°	314°	
24-61	61	61		I	90°	180°	270°	324°	

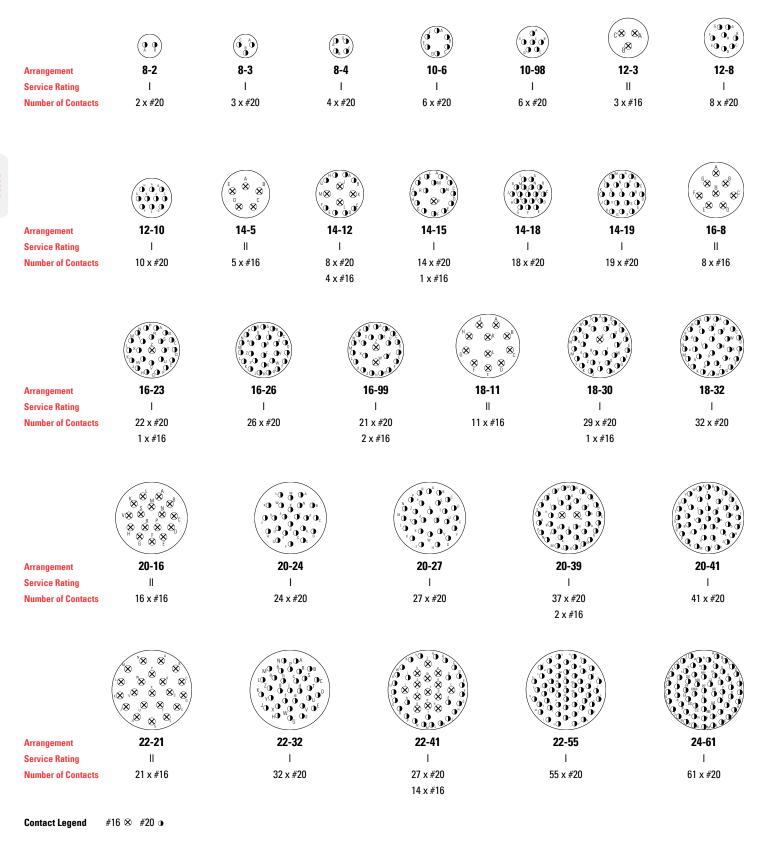
* Option is unavailable if left blank.

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Insert Arrangement Drawings

HM Series • MIL-DTL-26482 Series 1 Type Connectors





HM Series • MIL-DTL-26482 Series 1 Type Connectors

Wire & Solder Dimensions

Contact	Wire	Wire Range		Potential Drop Max Contact So		Solder Well	Solder Well	Contact Retention Min Axial Load
Size	AWG	Dia	(Millivolts)	Resistance (Milliohm)	Depth	Inside Diameter	OutsideDiameter	Pounds (Newtons)
#20	20, 22, 24	.020032 (.5181)	<55	9	.125 (3.2)	.046 (1.2)	.063 (1.6)	15 (66.7)
#16	16, 18, 20	.032050 (.81-1.29)	<50	6	.188 (4.8)	.078 (2.0)	.100 (2.5)	25 (111.2)
	16, 18, 20	.032050 (.81-1.29)	<50	0	.188 (4.8)	.078 (2.0)	. 100 (2.5)	25 (111.2)

Dimensions are in inches (mm) unless otherwise noted.

Current Rating By Contact Size & Wire Size

Wire Size	Contact Size	l .
(AWG)	#20	#16
24	3A	
20	7.5A	7.5A
16		13A

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Contact Derating Specifications

	Max Operating		Test Voltage				
Service Rating	· · · · · · · · · · · · · · · · · · ·		Sea Level	50,000 ft	70,000 ft	110,000 ft	
, j	AC (RMS)	DC	AC (RMS)	AC (RMS)	AC (RMS)	AC (RMS)	
I	600	850	1,500	500	375	200	
II	1,000	1,275	2,300	750	500	200	

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Coupling Torque

Shell Size	Maximum Engagement & Disengagement	Minimum Disengagement
8	8 (.9)	1 / 1)
10	12 (1.4)	1 (.1)
12	16 (1.8)	2 (.3)
14	20 (2.3)	
16	24 (2.7)	4 (.5)
18	28 (3.2)	
20	32 (3.6)	6 (.7)
22	36 (4.1)	7 / 0)
24	44 (5.0)	7 (.8)

Units are in inch pounds (Newton meters).

Torque Values For Cable Clamp Screws

Screw	Recomme	ended Torque
Size	Min	Мах
#2-56	1.5 (.2)	2.5 (.3)
#4-40	3.5 (.4)	4.5 (.5)
#6-32	5 (.6)	7 (.8)
#8-32	7 (.8)	9 (1.0)
#10-32	9 (1.0)	11 (1.2)
#.250-20	11 (1.2)	13 (1.5)

Units are in inch pounds (Newton meters).

Rev. 2203

Wire Sealing Range

Contact	Wire Size	Insulation Outside Diameter Range			
Size	(AWG)	Min	Мах		
#20	20, 22, & 24	.060 (1.52)	.083 (2.11)		
#16	16, 18, & 20	.066 (1.68)	.109 (2.77)		

Dimensions are in inches (mm) unless otherwise noted.

Recommended Insulation Strip Length

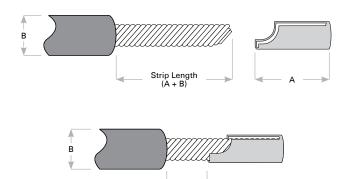
The recommended insulation strip length found in the table below can be used for standard insulated wire. For heavy jacketed wire, insulation strip length can be quickly and easily calculated by adding the contact solder well depth (A) to the wire's outside insulation diameter (B). The conductor should be exposed to a length that will bring the insulation clearance above the solder cup equal to the outside diameter of the insulation (B) when the wire is inserted in the solder cup to its full depth.

When removing the insulation from conductors always use a thermal precision cutter or jacket stripping device. Care must be exercised to prevent damage to the individual wire strands or conductor when cutting the jacket insulation.

Strip Length

Contact Size	(A) Well Depth	Recommended Strip Length
#20	.165 (4.2)	.250 (6.6)
#16 .245 (6.2)		.350 (8.9)

Dimensions are in inches (mm).





MS3116 Connector Type Datasheet

HM Series • MIL-DTL-26482 Series 1 Type Connectors



HM06 Cross Reference & Compatibility

Compatible Brands	Equivalents	Mates
MIL-DTL-26482 Series 1	MS3116	MS3110, MS3111, MS3112, MS3114
Amphenol	PT06	PT00, PT01, PT02, PT07
Array	PW06	PW00, PW01, PW02, PW07
ITT Cannon	KPT06	KPT00, KPT01, KPT02, KPT07
Souriau	85106	85100, 85101, 85102, 85107

HM06 F 14-19 P N - 01 3

BASIC PA	RT NUMBER
HM06	Straight plug w/ integrated backshell
MATERIA	L & FINISH
F	Aluminum, olive drab cadmium
SHELL SI	ZE & INSERT ARRANGEMENT
See In	sert Arrangement Selection table, p. H-9
CONTACT	T STYLE
Р	Pin
S	Socket
INSERT R	OTATION
Ν	Normal or W, X, Y, Z, see p. H-9 for availability
OPTIONA	LACCESSORY KIT (OMIT FOR NONE)
01	Protective cover

4

5

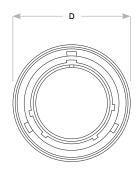
-6

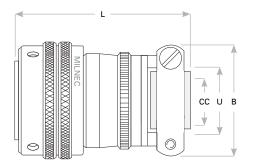
Note: See part builder (p. H-8) for additional kit options.

Plug Dimensions

Shell Size	D	L	В	U	CC Cable Clearance
8	.750 (19.1)	1.906 (48.4)	.812 (20.6)	.240 (6.1)	.125 (3.2)
10	.859 (21.8)	1.906 (48.4)	.875 (22.2)	.302 (7.7)	.188 (4.8)
12	1.013 (25.7)	1.906 (48.4)	1.000 (25.4)	.428 (10.9)	.312 (7.9)
14	1.156 (29.4)	1.906 (48.4)	1.125 (28.6)	.552 (14.0)	.375 (9.5)
16	1.281 (32.5)	2.047 (52.0)	1.188 (30.2)	.615 (15.6)	.500 (12.7)
18	1.319 (33.5)	2.078 (52.8)	1.438 (36.5)	.740 (18.8)	.625 (15.9)
20	1.531 (38.9)	2.250 (57.2)	1.438 (36.5)	.740 (18.8)	.625 (15.9)
22	1.656 (42.1)	2.250 (57.2)	1.625 (41.3)	.928 (23.6)	.750 (19.1)
24	1.776 (45.1)	2.312 (58.7)	1.750 (44.5)	.990 (25.1)	.800 (20.3)

Dimensions are in inches (mm).







90° MIL-5015 Plug Datasheet

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HM08 F 14-19 P N - 01 6 3

2

0	BASIC PAR	RT NUMBER
T	HM08	90° plug w/ integrated backshell
2	MATERIAL	& FINISH
	F	Aluminum, olive drab cadmium
3	SHELL SIZ	E & INSERT ARRANGEMENT
	See Ins	ert Arrangement Selection table, p. H-9
4	CONTACT	STYLE
	Р	Pin
	S	Socket
5	INSERT RO	DTATION
	Ν	Normal or W, X, Y, Z, see p. H-9 for availability
6	OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)
	01	Protective cover

5

Note: See part builder (p. H-8) for additional kit options.



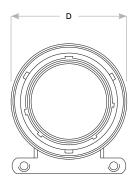
HM08 Cross Reference & Compatibility

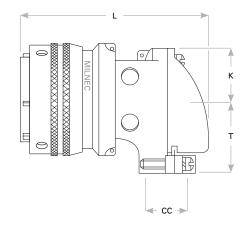
Compatible Brands	Equivalent	Mates
MIL-DTL-26482 Series 1	—	MS3110, MS3111, MS3112, MS3114
Amphenol	PT08	PT00, PT01, PT02, PT07
Array	PW08	PW00, PW01, PW02, PW07
ITT Cannon	KPT08	KPT00, KPT01, KPT02, KPT07
Souriau	85108	85100, 85101, 85102, 85107

Plug Dimensions

Shell Size	D	L	К	т	CC Cable Clearance
8	.796 (20.2)	1.786 (45.4)	.339 (8.6)	.655 (16.6)	.169 (4.3)
10	.921 (23.4)	1.880 (47.8)	.393 (10.0) .749 (19.0)		.170 (4.3)
12	1.046 (26.6)	1.965 (49.9)	.450 (11.4)	.812 (20.6)	.264 (6.7)
14	1.171 (29.7)	2.113 (53.7)	.519 (13.2)	.905 (23.0)	.310 (7.9)
16	1.297 (32.9)	2.315 (58.8)	.583 (14.8)	1.030 (26.2)	.330 (8.4)
18	1.422 (36.1)	2.423 (61.5)	.621 (15.8)	1.015 (25.8)	.444 (11.3)
20	1.562 (39.7)	2.695 (68.4)	.683 (17.3)	1.077 (27.4)	.510 (13.0)
22	1.672 (42.5)	2.742 (69.6)	.739 (18.8)	1.139 (28.9)	.515 (13.1)
24	1.797 (45.6)	2.980 (75.7)	.797 (20.2)	1.265 (32.1)	.656 (16.7)

Dimensions are in inches (mm).









MS3110 Connector Type Datasheet

HM Series • MIL-DTL-26482 Series 1 Type Connectors



HM00 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-26482 Series 1	MS3110	MS3116
Amphenol	PT00	PT06, PT08
Array	PW00	PW06, PW08
ITT Cannon	KPT00	KPT06, KPT08
Souriau	85100	85106, 85108

HM00 F 14-18 S N - 03 3

BASIC PAF	RT NUMBER
HM00	Wall mount receptacle w/ integrated backshell
MATERIAL	. & FINISH
F	Aluminum, olive drab cadmium
SHELL SIZ	E & INSERT ARRANGEMENT
See Ins	ert Arrangement Selection table, p. H-9
CONTACT	STYLE
Р	Pin
S	Socket
INSERT RO	DTATION
Ν	Normal or W, X, Y, Z, see p. H-9 for availability
OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)
02	Protective cover + mounting gasket
03	02 kit + mounting bracket + sealing screws
	HM00 MATERIAL F SHELL SIZ See Ins CONTACT P S INSERT RO N OPTIONAL 02

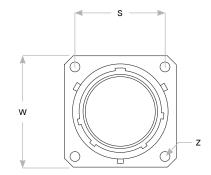
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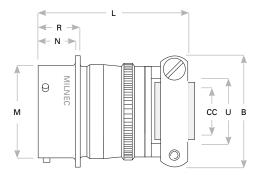
Note: See part builder (p. H-8) for additional kit options.

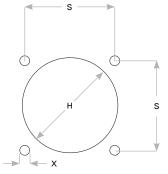
Receptacle Dimensions

Shell Size	w	z	L	R	N	М	В	U	CC Cable Clearance	s	x	Н
8	.812 (20.6)	.120 (3.0)	1.922 (48.8)	.493 (12.5)	.431 (10.9)	.473 (12.0)	.812 (20.6)	.240 (6.1)	.125 (3.2)	.594 (15.1)	.120 (3.1)	.449 (11.4)
10	.938 (23.8)	.120 (3.0)	1.922 (48.8)	.493 (12.5)	.431 (10.9)	.590 (15.0)	.875 (22.2)	.302 (7.7)	.188 (4.8)	.719 (18.3)	.120 (3.1)	.573 (14.6)
12	1.031 (26.2)	.120 (3.0)	1.922 (48.8)	.493 (12.5)	.431 (10.9)	.750 (19.1)	1.000 (25.4)	.428 (10.9)	.312 (7.9)	.812 (20.6)	.120 (3.1)	.699 (17.8)
14	1.125 (28.6)	.120 (3.0)	1.922 (48.8)	.493 (12.5)	.431 (10.9)	.875 (22.2)	1.125 (28.6)	.552 (14.0)	.375 (9.5)	.906 (23.0)	.120 (3.1)	.823 (20.9)
16	1.219 (31.0)	.120 (3.0)	2.047 (52.0)	.493 (12.5)	.431 (10.9)	1.000 (25.4)	1.188 (30.2)	.615 (15.6)	.500 (12.7)	.969 (24.6)	.120 (3.1)	.949 (24.1)
18	1.312 (33.3)	.120 (3.0)	2.078 (52.8)	.493 (12.5)	.431 (10.9)	1.125 (28.6)	1.438 (36.5)	.740 (18.8)	.625 (15.9)	1.062 (27.0)	.120 (3.1)	1.073 (27.3)
20	1.438 (36.5)	.120 (3.0)	2.344 (59.5)	.650 (16.5)	.556 (14.1)	1.250 (31.8)	1.438 (36.5)	.740 (18.8)	.625 (15.9)	1.156 (29.4)	.120 (3.1)	1.199 (30.5)
22	1.562 (39.7)	.120 (3.0)	2.344 (59.5)	.650 (16.5)	.556 (14.1)	1.375 (34.9)	1.625 (41.3)	.928 (23.6)	.750 (19.1)	1.250 (31.8)	.120 (3.1)	1.323 (33.6)
24	1.688 (42.9)	.147 (3.7)	2.406 (61.1)	.683 (17.3)	.589 (15.0)	1.500 (38.1)	1.719 (43.7)	.990 (25.1)	.800 (20.3)	1.375 (34.9)	.147 (3.7)	1.449 (36.8)

Dimensions are in inches (mm). Not recommended for rear panel installations.







Front Mount **Panel Cutout**



MS3112 Connector Type Datasheet

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HM02 F 14-19 S W - 03

0	BASIC PAR	T NUMBER
T	HM02	Box mount receptacle
2	MATERIAL	& FINISH
T	F	Aluminum, olive drab cadmium
3	SHELL SIZ	E & INSERT ARRANGEMENT
	See Ins	ert Arrangement Selection table, p. H-9
4	CONTACT	STYLE
	Р	Pin
	S	Socket
5	INSERT RC	DTATION
	Ν	Normal or W, X, Y, Z, see p. H-9 for availability
6	OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)
	02	Protective cover + mounting gasket
	03	02 kit + mounting bracket + sealing screws

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Note: See part builder (p. H-8) for additional kit options.

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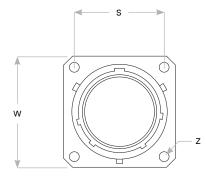
HM02 Cross Reference & Compatibility

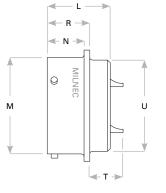
Compatible Brands	Equivalent	Mates
MIL-DTL-26482 Series 1	MS3112	MS3116
Amphenol	PT02	PT06, PT08
Array	PW02	PW06, PW08
ITT Cannon	KPT02	KPT06, KPT08
Souriau	85102	85106, 85108

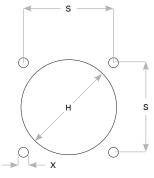
Receptacle Dimensions

Shell Size	w	Z	L	R	N	М	т	U	S	x	Н
8	.812 (20.6)	.120 (3.0)	.825 (21.0)	.493 (12.5)	.431 (10.9)	.473 (12.0)	.465 (11.8)	.449 (11.4)	.594 (15.1)	.120 (3.1)	.449 (11.4)
10	.938 (23.8)	.120 (3.0)	.825 (21.0)	.493 (12.5)	.431 (10.9)	.590 (15.0)	.465 (11.8)	.573 (14.6)	.719 (18.3)	.120 (3.1)	.573 (14.6)
12	1.031 (26.2)	.120 (3.0)	.825 (21.0)	.493 (12.5)	.431 (10.9)	.750 (19.1)	.465 (11.8)	.699 (17.8)	.812 (20.6)	.120 (3.1)	.699 (17.8)
14	1.125 (28.6)	.120 (3.0)	.825 (21.0)	.493 (12.5)	.431 (10.9)	.875 (22.2)	.465 (11.8)	.823 (20.9)	.906 (23.0)	.120 (3.1)	.823 (20.9)
16	1.219 (31.0)	.120 (3.0)	.825 (21.0)	.493 (12.5)	.431 (10.9)	1.000 (25.4)	.465 (11.8)	.949 (24.1)	.969 (24.6)	.120 (3.1)	.949 (24.1)
18	1.312 (33.3)	.120 (3.0)	.825 (21.0)	.493 (12.5)	.431 (10.9)	1.125 (28.6)	.465 (11.8)	1.073 (27.3)	1.062 (27.0)	.120 (3.1)	1.073 (27.3)
20	1.438 (36.5)	.120 (3.0)	1.076 (27.3)	.650 (16.5)	.556 (14.1)	1.250 (31.8)	.526 (13.4)	1.199 (30.5)	1.156 (29.4)	.120 (3.1)	1.199 (30.5)
22	1.562 (39.7)	.120 (3.0)	1.076 (27.3)	.650 (16.5)	.556 (14.1)	1.375 (34.9)	.526 (13.4)	1.323 (33.6)	1.250 (31.8)	.120 (3.1)	1.323 (33.6)
24	1.688 (42.9)	.147 (3.7)	1.109 (28.2)	.683 (17.3)	.589 (15.0)	1.500 (38.1)	.493 (12.5)	1.449 (36.8)	1.375 (34.9)	.147 (3.7)	1.449 (36.8)

Dimensions are in inches (mm). Not recommended for rear panel installations.







Front Mount Panel Cutout



HM Series • MIL-DTL-26482 Series 1 Type Connectors



HM07 F 14-18 S N - 02

T NUMBER Jam nut recept. w/ integrated backshell & FINISH Aluminum, olive drab cadmium & INSERT ARRANGEMENT rt Arrangement Selection table, p. H-9 STYLE Pin
& FINISH Aluminum, olive drab cadmium & NSERT ARRANGEMENT Arrangement Selection table, p. H-9 STYLE
Aluminum, olive drab cadmium & INSERT ARRANGEMENT rt Arrangement Selection table, p. H-9 STYLE
& INSERT ARRANGEMENT rt Arrangement Selection table, p. H-9 STYLE
rt Arrangement Selection table, p. H-9 STYLE
STYLE
=
Pin
Socket
TATION
Normal or W, X, Y, Z, see p. H-9 for availability
ACCESSORY KIT (OMIT FOR NONE)
Protective cover

6

HM07 Cross Reference & Compatibility

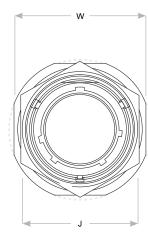
Equivalent	Mates
MS3114	MS3116
PT07	PT06, PT08
PW07	PW06, PW08
KPT07	KPT06, KPT08
85107	85106, 85108
	MS3114 PT07 PW07 KPT07

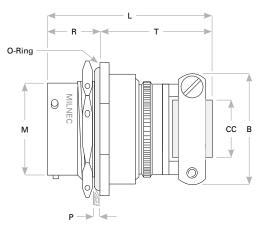
Note: See part builder (p. H-8) for additional kit options.

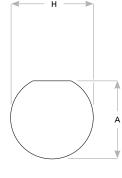
Receptacle Dimensions

Shell Size	w	J	L	R	м	т	В	CC Cable Clearance	P Max Rear Panel‡	н	A
8	.938 (23.8)	.750 (19.1)	1.758 (44.7)	.696 (17.7)	.473 (11.9)	1.062 (27.0)	0.781 (19.8)	0.250 (6.4)	.125 (3.2)	.572 (14.5)	.542 (13.8)
10	1.062 (27.0)	.875 (22.2)	1.758 (44.7)	.696 (17.7)	.590 (15.0)	1.062 (27.0)	0.844 (21.4)	0.312 (7.9)	.125 (3.2)	.697 (17.7)	.669 (17.0)
12	1.250 (31.8)	1.062 (27.0)	1.758 (44.7)	.696 (17.7)	.750 (19.1)	1.062 (27.0)	0.969 (24.6)	0.438 (11.1)	.125 (3.2)	.884 (22.5)	.830 (21.1)
14	1.375 (34.9)	1.188 (30.2)	1.758 (44.7)	.696 (17.7)	.875 (22.2)	1.062 (27.0)	1.094 (27.8)	0.562 (14.3)	.125 (3.2)	1.007 (25.6)	.955 (24.3)
16	1.500 (38.1)	1.312 (33.3)	1.884 (47.9)	.696 (17.7)	1.000 (25.4)	1.188 (30.2)	1.156 (29.4)	0.625 (15.9)	.125 (3.2)	1.134 (28.8)	1.084 (27.5)
18	1.625 (41.3)	1.438 (36.5)	1.884 (47.9)	.696 (17.7)	1.125 (28.6)	1.188 (30.2)	1.406 (35.7)	0.750 (19.1)	.125 (3.2)	1.259 (32.0)	1.208 (30.7)
20	1.812 (46.0)	1.562 (39.7)	2.134 (54.2)	.884 (22.4)	1.250 (31.8)	1.250 (31.8)	1.406 (35.7)	0.750 (19.1)	.250 (6.4)	1.384 (35.2)	1.333 (33.9)
22	1.938 (49.2)	1.688 (42.9)	2.134 (54.2)	.884 (22.4)	1.375 (35.0)	1.250 (31.8)	1.594 (40.5)	0.938 (23.8)	.250 (6.4)	1.507 (38.3)	1.459 (37.1)
24	2.062 (52.4)	1.816 (46.1)	2.167 (55.1)	.917 (23.3)	1.500 (38.1)	1.250 (31.8)	1.594 (40.5)	1.000 (25.4)	.250 (6.4)	1.634 (41.5)	1.575 (40.0)

Dimensions are in inches (mm). \$ Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.







Panel Cutout



MS3111 Connector Type Datasheet

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HM01 F 14-18 S N - 02 -6 R

0	BASIC PAR	RT NUMBER
	HM01	Cable mount recept. w/ integrated backshell
2	MATERIAL	. & FINISH
	F	Aluminum, olive drab cadmium
3	SHELL SIZ	E & INSERT ARRANGEMENT
	See Ins	ert Arrangement Selection table, p. H-9
4	CONTACT	STYLE
	Р	Pin
	S	Socket
5	INSERT RO	DTATION
	N	Normal or W, X, Y, Z, see p. H-9 for availability
6	OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)
	02	Protective cover

5

4

Note: See part builder (p. H-8) for additional kit options.



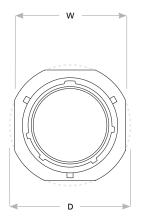
HM01 Cross Reference & Compatibility

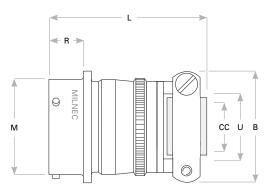
Compatible Brands	Equivalent	Mates
MIL-DTL-26482 Series 1	MS3111	MS3116
Amphenol	PT01	PT06, PT08
Array	PW01	PW06, PW08
ITT Cannon	KPT01	KPT06, KPT08
Souriau	85101	85106, 85108

Receptacle Dimensions

Shell Size	w	D	L	R	М	В	U	CC Cable Clearance
8	.812 (20.6)	.938 (23.8)	1.922 (48.8)	.400 (10.2)	.473 (12.0)	.812 (20.6)	.240 (6.1)	.125 (3.2)
10	.938 (23.8)	1.062 (27.0)	1.922 (48.8)	.400 (10.2)	.590 (15.0)	.875 (22.2)	.302 (7.7)	.188 (4.8)
12	1.031 (26.2)	1.156 (29.4)	1.922 (48.8)	.400 (10.2)	.750 (19.1)	1.000 (25.4)	.428 (10.9)	.312 (7.9)
14	1.125 (28.6)	1.250 (31.8)	1.922 (48.8)	.400 (10.2)	.875 (22.2)	1.125 (28.6)	.552 (14.0)	.375 (9.5)
16	1.219 (31.0)	1.344 (34.1)	2.047 (52.0)	.400 (10.2)	1.000 (25.4)	1.188 (30.2)	.615 (15.6)	.500 (12.7)
18	1.312 (33.3)	1.438 (36.5)	2.078 (52.8)	.400 (10.2)	1.125 (28.6)	1.438 (36.5)	.740 (18.8)	.625 (15.9)
20	1.438 (36.5)	1.562 (39.7)	2.344 (59.5)	.535 (13.6)	1.250 (31.8)	1.438 (36.5)	.740 (18.8)	.625 (15.9)
22	1.562 (39.7)	1.688 (42.9)	2.344 (59.5)	.535 (13.6)	1.375 (34.9)	1.625 (41.3)	.928 (23.6)	.750 (19.1)
24	1.688 (42.9)	1.812 (46.0)	2.406 (61.1)	.568 (14.4)	1.500 (38.1)	1.719 (43.7)	.990 (25.1)	.800 (20.3)

Dimensions are in inches (mm).







Thru-Bulkhead Receptacle

HM Series • MIL-DTL-26482 Series 1 Type Connectors



ΣH

HM22 Compatibility

Compatible Brands	Mates
MIL-DTL-26482 Series 1	MS3116
Amphenol	PT06, PT08
Array	PW06, PW08
ITT Cannon	KPT06, KPT08
Souriau	85106, 85108

HM22 F 14-18 PS N - 02

3

BASIC P	ART NUMBER
HM2	2 Thru-bulkhead receptacle
MATERI	AL & FINISH
F	Aluminum, olive drab cadmium
SHELL S	SIZE & INSERT ARRANGEMENT
See I	nsert Arrangement Selection table, p. H-9
CONTAC	CT STYLE
PS	Pin / socket (non-configurable)
INSERT	ROTATION
Ν	Normal or W, X, Y, Z, see p. H-9 for availability
OPTION	AL ACCESSORY KIT (OMIT FOR NONE)
02	Protective covers (2x) + mounting gasket
03	02 kit + mounting bracket + sealing screws

6

5

Note: See part builder (p. H-8) for additional kit options.

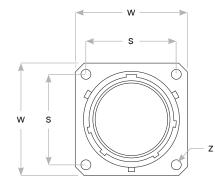
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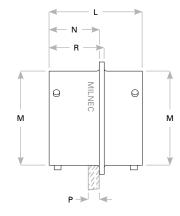
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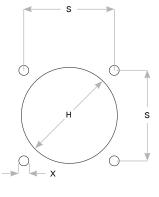
Receptacle Dimensions

Shell Size	w	Z	L	R	N	м	P Max Rear Panel‡	S	x	н
8	.812 (20.6)	.120 (3.0)	1.050 (26.7)	.625 (15.9)	.562 (14.3)	.473 (12.0)	.215 (5.4)	.594 (15.1)	.120 (3.1)	.533 (13.5)
10	.938 (23.8)	.120 (3.0)	1.050 (26.7)	.625 (15.9)	.562 (14.3)	.590 (15.0)	.215 (5.4)	.719 (18.3)	.120 (3.1)	.650 (16.5)
12	1.031 (26.2)	.120 (3.0)	1.050 (26.7)	.625 (15.9)	.562 (14.3)	.750 (19.1)	.215 (5.4)	.812 (20.6)	.120 (3.1)	.810 (20.6)
14	1.125 (28.6)	.120 (3.0)	1.050 (26.7)	.625 (15.9)	.562 (14.3)	.875 (22.2)	.215 (5.4)	.906 (23.0)	.120 (3.1)	.935 (23.8)
16	1.219 (31.0)	.120 (3.0)	1.050 (26.7)	.625 (15.9)	.562 (14.3)	1.000 (25.4)	.215 (5.4)	.969 (24.6)	.120 (3.1)	1.060 (26.9)
18	1.312 (33.3)	.120 (3.0)	1.050 (26.7)	.625 (15.9)	.562 (14.3)	1.125 (28.6)	.215 (5.4)	1.062 (27.0)	.120 (3.1)	1.185 (30.1)
20	1.438 (36.5)	.120 (3.0)	1.330 (33.8)	.781 (19.8)	.688 (17.5)	1.250 (31.8)	.340 (8.6)	1.156 (29.4)	.120 (3.1)	1.310 (33.3)
22	1.562 (39.7)	.120 (3.0)	1.330 (33.8)	.781 (19.8)	.688 (17.5)	1.375 (34.9)	.340 (8.6)	1.250 (31.8)	.120 (3.1)	1.435 (36.5)
24	1.688 (42.9)	.147 (3.7)	1.330 (33.8)	.781 (19.8)	.688 (17.5)	1.500 (38.1)	.310 (7.8)	1.375 (34.9)	.147 (3.7)	1.560 (39.6)

Dimensions are in inches (mm). \$ Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.







Panel Cutout



Box Mount Receptacle (Hermetic)

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HM12 H 14-15 P N - 02

)	BASIC PAF	RT NUMBER				
	HM12	Hermetic box mount receptacle				
		Helium leakage < 1.0 x10 ^{.7} cc³/sec at 15 psi				
)	MATERIAL	& FINISH				
	н	Carbon steel, tin plating over nickel				
)	SHELL SIZE & INSERT ARRANGEMENT					
	See Insert Arrangement Selection table, p. H-9					
)	CONTACT STYLE					
	Р	Pin, tin plated, solder cup termination				
	G*	Pin, gold plated, solder cup termination				
	S*	Socket, tin plated, solder cup termination				
	H*	Socket, gold plated, solder cup termination				
)	INSERT RO	DTATION				
	Ν	Normal or W, X, Y, Z, see p. H-9 for availability	HM'			
)	OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)	Con			
	02	Protective cover + mounting gasket	MIL-D			
	03	02 kit + mounting bracket + sealing screws				
	* Please consult	an authorized distributor for lead time and minimum quantity requirements.				

6

Note: See part builder (p. H-8) for additional kit options.



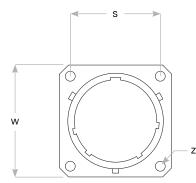
HM12 Compatibility

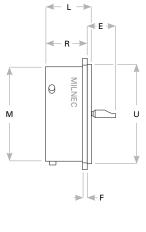
Compatible Brands	Mates
MIL-DTL-26482 Series 1	MS3116
Amphenol	PT06, PT08
Array	PW06, PW08
ITT Cannon	КРТ06, КРТ08
Souriau	85106, 85108

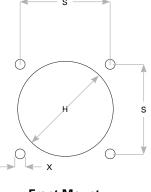
Receptacle Dimensions

Shell Size	w	z	L	R	м	F	E	U	S	x	Н
8	.812 (20.6)	.120 (3.1)	.541 (13.8)	.494 (12.6)	.473 (12.0)	.062 (1.6)	.344 (8.7)	.562 (14.3)	.594 (15.1)	.120 (3.1)	.449 (11.4)
10	.938 (23.8)	.120 (3.1)	.541 (13.8)	.494 (12.6)	.590 (15.0)	.062 (1.6)	.344 (8.7)	.672 (17.1)	.719 (18.3)	.120 (3.1)	.573 (14.6)
12	1.031 (26.2)	.120 (3.1)	.541 (13.8)	.494 (12.6)	.750 (19.1)	.062 (1.6)	.344 (8.7)	.781 (19.8)	.812 (20.6)	.120 (3.1)	.699 (17.8)
14	1.125 (28.6)	.120 (3.1)	.541 (13.8)	.494 (12.6)	.875 (22.2)	.062 (1.6)	.344 (8.7)	.906 (23.0)	.906 (23.0)	.120 (3.1)	.823 (20.9)
16	1.219 (31.0)	.120 (3.1)	.541 (13.8)	.494 (12.6)	1.000 (25.4)	.062 (1.6)	.344 (8.7)	1.031 (26.2)	.969 (24.6)	.120 (3.1)	.949 (24.1)
18	1.312 (33.3)	.120 (3.1)	.541 (13.8)	.494 (12.6)	1.125 (28.6)	.062 (1.6)	.344 (8.7)	1.156 (29.4)	1.062 (27.0)	.120 (3.1)	1.073 (27.3)
20	1.438 (36.5)	.120 (3.1)	.603 (15.3)	.556 (14.1)	1.250 (31.8)	.062 (1.6)	.344 (8.7)	1.250 (31.8)	1.156 (29.4)	.120 (3.1)	1.199 (30.5)
22	1.562 (39.7)	.120 (3.1)	.635 (16.1)	.556 (14.1)	1.375 (34.9)	.062 (1.6)	.377 (9.6)	1.375 (34.9)	1.250 (31.8)	.120 (3.1)	1.323 (33.6)
24	1.688 (42.9)	.147 (3.7)	.667 (16.9)	.588 (14.9)	1.500 (38.1)	.062 (1.6)	.377 (9.6)	1.500 (38.1)	1.375 (34.9)	.147 (3.7)	1.449 (36.8)

Dimensions are in inches (mm). Not recommended for rear panel installations.







Front Mount Panel Cutout



Jam Nut Receptacle (Hermetic)

HM Series • MIL-DTL-26482 Series 1 Type Connectors



HM13 Compatibility

Compatible Brands	Mates
MIL-DTL-26482 Series 1	MS3116
Amphenol	PT06, PT08
Array	PW06, PW08
ITT Cannon	КРТ06, КРТ08
Souriau	85106, 85108

HM13 H 12-3 P N - 02

(
	BASIC PAR	T NUMBER					
Ī	HM13	Hermetic jam nut receptacle					
		Helium leakage < 1.0 x10 ⁻⁷ cc³/sec at 15 psi					
2	MATERIAL	& FINISH					
	Н	Carbon steel, tin plating over nickel					
3	SHELL SIZ	E & INSERT ARRANGEMENT					
	See Ins	ert Arrangement Selection table, p. H-9					
4	CONTACT STYLE						
	Р	Pin, tin plated, solder cup termination					
	G*	Pin, gold plated, solder cup termination					
	S*	Socket, tin plated, solder cup termination					
	H*	Socket, gold plated, solder cup termination					
5	INSERT RC	TATION					
	Ν	Normal or W, X, Y, Z, see p. H-9 for availability					
6	OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)					
	02	Protective cover					
	* Please consult	an authorized distributor for lead time and minimum quantity requirements.					

6

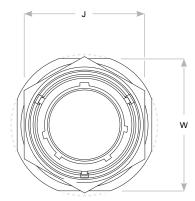
Note: See part builder (p. H-8) for additional kit options.

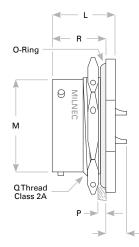
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Receptacle Dimensions

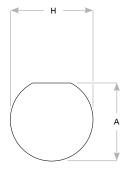
Shell Size	w	J	L	R	М	Q Thread Class 2A	E	P Max Rear Panel‡	Н	A
8	.938 (23.8)	.750 (19.1)	.790 (20.1)	.696 (17.7)	.473 (12.0)	.5625-24 NEF	.206 (5.2)	.125 (3.2)	.572 (14.5)	.542 (13.8)
10	1.062 (27.0)	.875 (22.2)	.790 (20.1)	.696 (17.7)	.590 (15.0)	.6875-24 NEF	.206 (5.2)	.125 (3.2)	.697 (17.7)	.669 (17.0)
12	1.250 (31.8)	1.062 (27.0)	.790 (20.1)	.696 (17.7)	.750 (19.1)	.8750-20 UNEF	.206 (5.2)	.125 (3.2)	.884 (22.5)	.830 (21.1)
14	1.375 (34.9)	1.188 (30.2)	.790 (20.1)	.696 (17.7)	.875 (22.2)	1.0000 20 UNEF	.206 (5.2)	.125 (3.2)	1.007 (25.6)	.955 (24.3)
16	1.500 (38.1)	1.312 (33.3)	.790 (20.1)	.696 (17.7)	1.000 (25.4)	1.1250-18 NEF	.206 (5.2)	.125 (3.2)	1.134 (28.8)	1.084 (27.5)
18	1.625 (41.3)	1.438 (36.5)	.790 (20.1)	.696 (17.7)	1.125 (28.6)	1.2500-18 NEF	.206 (5.2)	.125 (3.2)	1.259 (32.0)	1.208 (30.7)
20	1.812 (46.0)	1.562 (39.7)	1.009 (25.7)	.884 (22.5)	1.250 (31.8)	1.3750-18 NEF	.081 (2.1)	.250 (6.4)	1.384 (35.2)	1.333 (33.9)
22	1.938 (49.2)	1.688 (42.9)	1.009 (25.7)	.884 (22.5)	1.375 (34.9)	1.5000-18 NEF	.081 (2.1)	.250 (6.4)	1.507 (38.3)	1.459 (37.1)
24	2.062 (52.4)	1.812 (46.0)	1.042 (26.5)	.917 (23.3)	1.500 (38.1)	1.6250-18 NEF	.048 (1.2)	.250 (6.4)	1.634 (41.5)	1.575 (40.0)

Dimensions are in inches (mm). ‡ Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.





Е



Panel Cutout



Solder Mount Receptacle (Hermetic)

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HM19 H 14-19 P N - 02

HM19	Hermetic solder mount receptacle	
	Helium leakage < 1.0 x10 ⁻⁷ cc³/sec at 15 psi	
MATERIAL	. & FINISH	
н	Carbon steel, tin plating over nickel	
SHELL SIZ	E & INSERT ARRANGEMENT	
See Ins	ert Arrangement Selection table, p. H-9	
CONTACT	STYLE	
Р	Pin, tin plated, solder cup termination	
G*	Pin, gold plated, solder cup termination	
S*	Socket, tin plated, solder cup termination	
H*	Socket, gold plated, solder cup termination	
INSERT RO	DTATION	
Ν	Normal or W, X, Y, Z, see p. H-9 for availability	- F
OPTIONAL	ACCESSORY KIT (OMIT FOR NONE)	
02	Protective cover	

.

6

Note: See part builder (p. H-8) for additional kit options.

.



HM19 Compatibility

Compatible Brands	Mates
MIL-DTL-26482 Series 1	MS3116
Amphenol	PT06, PT08
Array	PW06, PW08
ITT Cannon	KPT06, KPT08
Souriau	85106, 85108

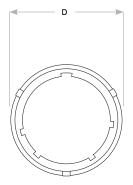
Receptacle Dimensions

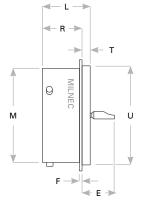
Shell Size	D	L	R	Μ	F	т	E	U	H Front Mount
8	.636 (16.2)	.541 (13.8)	.447 (11.4)	.473 (12.0)	.031 (0.8)	.094 (2.4)	.386 (9.8)	.562 (14.3)	.582 (14.8)
10	.761 (19.3)	.541 (13.8)	.447 (11.4)	.590 (15.0)	.031 (0.8)	.094 (2.4)	.386 (9.8)	.672 (17.1)	.692 (17.6)
12	.855 (21.7)	.541 (13.8)	.447 (11.4)	.750 (19.1)	.031 (0.8)	.094 (2.4)	.386 (9.8)	.781 (19.8)	.801 (20.4)
14	.980 (24.9)	.541 (13.8)	.447 (11.4)	.875 (22.2)	.031 (0.8)	.094 (2.4)	.386 (9.8)	.906 (23.0)	.926 (23.5)
16	1.105 (28.1)	.541 (13.8)	.447 (11.4)	1.000 (25.4)	.031 (0.8)	.094 (2.4)	.386 (9.8)	1.031 (26.2)	1.051 (26.7)
18	1.229 (31.2)	.541 (13.8)	.447 (11.4)	1.125 (28.6)	.031 (0.8)	.094 (2.4)	.386 (9.8)	1.156 (29.4)	1.176 (29.9)
20	1.323 (33.6)	.603 (15.3)	.509 (12.9)	1.250 (31.8)	.031 (0.8)	.094 (2.4)	.386 (9.8)	1.250 (31.8)	1.395 (35.4)
22	1.449 (36.8)	.634 (16.1)	.509 (12.9)	1.375 (34.9)	.031 (0.8)	.125 (3.2)	.418 (10.6)	1.375 (34.9)	1.375 (34.9)
24	1.574 (40.0)	.667 (17.0)	.542 (13.8)	1.500 (38.1)	.031 (0.8)	.125 (3.2)	.418 (10.6)	1.500 (38.1)	1.520 (38.6)

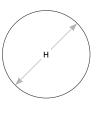
Dimensions are in inches (mm).

2

5







Panel Cutout



Protective Covers

HM Series • MIL-DTL-26482 Series 1 Type Connectors



HMCP - 14 B E

BASIC PART NUMBER HMCP Plug cover w/ sash chain HMCR Receptacle cover w/ sash chain SHELL SIZE See Protective Cover Dimensions table below MATERIAL & FINISH B Aluminum, anodize hardcoat ATTACHMENT TYPE E Eyelet attachment on sash chain J Jam nut ring attachment on sash chain (for use with HM07 & HM13 jam nut receptacles)

Note: See part builder (p. H-8) for additional kit options.

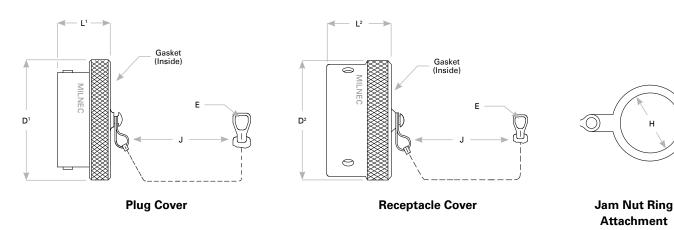
HMCP & HMCR Compatibility

Compatible Brands	Plugs	Receptacles
MIL-DTL-26482 Series 1	MS3116	MS3110, MS3111, MS3112, MS3114
Amphenol	PT06, PT08	PT00, PT01, PT02, PT07
Array	PW06, PW08	PW00, PW01, PW02, PW07
ITT Cannon	KPT06, KPT08	KPT00, KPT01, KPT02, KPT07
Souriau	85106, 85108	85100, 85101, 85102, 85107

Protective Cover Dimensions

Shell Size	Ľ	D1	E	J Chain Length	L²	D²	Н
8	.562 (14.3)	.719 (18.3)	.167 (4.2)	3.00 (76.2)	.562 (14.3)	.734 (18.6)	.578 (14.7)
10	.562 (14.3)	.844 (21.4)	.167 (4.2)	3.00 (76.2)	.562 (14.3)	.859 (21.8)	.703 (17.9)
12	.562 (14.3)	1.000 (25.4)	.167 (4.2)	3.50 (88.9)	.562 (14.3)	1.000 (25.4)	.891 (22.6)
14	.562 (14.3)	1.125 (28.6)	.167 (4.2)	3.50 (88.9)	.562 (14.3)	1.125 (28.6)	1.016 (25.8)
16	.562 (14.3)	1.250 (31.8)	.167 (4.2)	3.50 (88.9)	.562 (14.3)	1.250 (31.8)	1.141 (29.0)
18	.562 (14.3)	1.375 (34.9)	.167 (4.2)	3.50 (88.9)	.562 (14.3)	1.375 (34.9)	1.266 (32.2)
20	.625 (15.9)	1.500 (38.1)	.167 (4.2)	4.00 (101.6)	.562 (14.3)	1.500 (38.1)	1.391 (35.3)
22	.625 (15.9)	1.625 (41.3)	.167 (4.2)	4.00 (101.6)	.562 (14.3)	1.625 (41.3)	1.516 (38.5)
24	.658 (16.7)	1.750 (44.5)	.167 (4.2)	4.00 (101.6)	.602 (15.3)	1.750 (44.5)	1.641 (41.7)

Dimensions are in inches (mm).





Stowage Receptacle

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HMCD - 14 F - 03

2

BASIC F	PART NUMBER
НМС	D Stowage receptacle
SHELL S	SIZE
See	Stowage Receptacle Dimensions table below
MATER	AL & FINISH
F	Aluminum, olive drab cadmium
OPTION	IAL ACCESSORY KIT (OMIT FOR NONE)
02	Protective cover + mounting gasket
03	02 kit + mounting bracket + sealing screws

4

Note: See part builder (p. H-8) for additional kit options.

Stowage Receptacle Dimensions

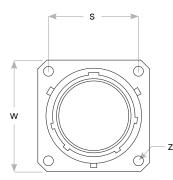


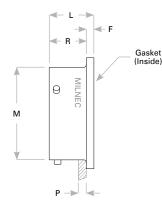
HMCD Compatibility

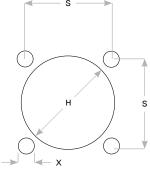
Compatible Brands	Plugs
MIL-DTL-26482 Series 1	MS3116
Amphenol	PT06, PT08
Array	PW06, PW08
ITT Cannon	КРТ06, КРТ08
Souriau	85106, 85108

Р Shell w Ζ L R Max Rear S Х Н М F Size Panel[‡] 8 .828 (21.0) .120 (3.0) .540 (13.8) .478 (12.2) .471 (12.0) .062 (1.6) .125 (3.2) .594 (15.1) .120 (3.1) .449 (11.4) 10 .954 (24.2) .120 (3.0) .540 (13.8) .478 (12.2) .588 (14.9) .062 (1.6) .125 (3.2) .719 (18.3) .120 (3.1) .573 (14.6) 1.047 (26.6) .120 (3.0) .540 (13.8) .478 (12.2) .748 (19.0) .812 (20.6) .120 (3.1) .699 (17.8) 12 .062 (1.6) .125 (3.2) 1.141 (29.0) .120 (3.0) .540 (13.8) .478 (12.2) .906 (23.0) .120 (3.1) .823 (20.9) 14 .873 (22.2) .062 (1.6) .125 (3.2) .120 (3.1) .949 (24.1) 16 1.234 (31.3) .120 (3.0) .540 (13.8) .478 (12.2) .998 (25.3) .062 (1.6) .125 (3.2) .969 (24.6) 18 1.328 (33.7) .120 (3.0) .540 (13.8) .478 (12.2) 1.123 (28.5) .062 (1.6) .125 (3.2) 1.062 (27.0) .120 (3.1) 1.073 (27.3) 1.248 (31.7) 20 1.453 (36.9) .120 (3.0) .666 (16.9) .572 (14.5) .094 (2.4) .250 (6.4) 1.156 (29.4) .120 (3.1) 1.199 (30.5) 22 1.578 (40.1) .120 (3.0) .666 (16.9) .572 (14.5) 1.373 (34.9) .250 (6.4) 1.250 (31.8) .120 (3.1) 1.323 (33.6) .094 (2.4) 24 1.703 (43.3) .147 (3.7) .699 (17.8) .605 (15.4) 1.498 (38.0) .094 (2.4) .250 (6.4) 1.375 (34.9) .147 (3.7) 1.449 (36.8)

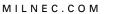
Dimensions are in inches (mm). \$ Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.







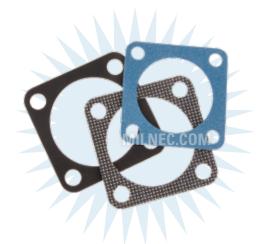
Panel Cutout





Mounting Gasket

HM Series • MIL-DTL-26482 Series 1 Type Connectors



HMGE - 14

-1)	2
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BASIC PART NUMBER HMGE Neoprene environmental (weather resistant) Temp. range -40°F to +230°F (-40°C to +110°C) HMGL Fluorosilicone (jet fuel & oil resistant) Temp. range -70°F to +392°F (-56°C to +200°C)

Per MIL-DTL-25988, Class 1, Grade 6 **HMGD** Conductive EMI-RFI fluorosilicone, Al-Ag filled Temp. range -70°F to +392°F (-56°C to +200°C) Shielding effectiveness at 90 dB @ 10 GHz Per MIL-DTL-83528, Type D

SHELL SIZE

See Gasket Dimensions table below

Note: See part builder (p. H-8) for additional kit options.

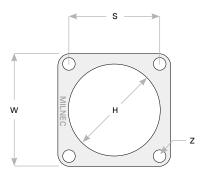
HMGE Compatibility

Compatible Brands	Receptacles
MIL-DTL-26482 Series 1	MS3110, MS3112
Amphenol	PT00, PT02
Array	PW00, PW02
ITT Cannon	KPT00, KPT02
Souriau	85100, 85102

Gasket Dimensions

Shell Size	w	S	Z	н
8	.812 (20.6)	.594 (15.1)	.130 (3.3)	.500 (12.7)
10	.938 (23.8)	.719 (18.3)	.130 (3.3)	.625 (15.9)
12	1.031 (26.2)	.813 (20.7)	.130 (3.3)	.750 (19.1)
14	1.125 (28.6)	.906 (23.0)	.130 (3.3)	.875 (22.2)
16	1.219 (31.0)	.969 (24.6)	.130 (3.3)	1.000 (25.4)
18	1.312 (33.3)	1.063 (27.0)	.130 (3.3)	1.125 (28.6)
20	1.438 (36.5)	1.156 (29.4)	.130 (3.3)	1.250 (31.8)
22	1.563 (39.7)	1.250 (31.8)	.130 (3.3)	1.375 (34.9)
24	1.688 (42.9)	1.375 (34.9)	.130 (3.3)	1.500 (38.1)

Dimensions are in inches (mm).





Mounting Bracket & Screws

HM Series • MIL-DTL-26482 Series 1 Type Connectors

HMMB - 14 - A

BASIC PART NUMBER HMMB Mounting bracket, aluminum alloy

with SST locking nuts SHELL SIZE

.

1

2

See Bracket Dimensions table below

2

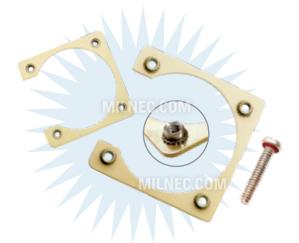
OPTIONAL FASTENER KIT (OMIT FOR NONE)

-3

A Self-sealing SST fillister head screws (4x)

- **B** A kit + environmental gasket
- **D** A kit + fluorosilicone EMI/RFI gasket

Note: See part builder (p. H-8) for additional kit options.



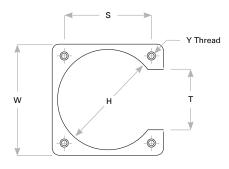
HMMB Compatibility

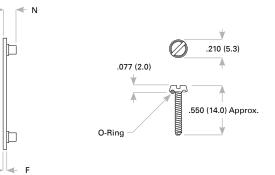
Compatible Brands	Receptacles
MIL-DTL-26482 Series 1	MS3110, MS3112
Amphenol	PT00, PT02
Array	PW00, PW02
ITT Cannon	КРТ00, КРТ02
Souriau	85100, 85102

Bracket Dimensions

Shell Size	w	S	т	Н	Ν	F	Screw Size	Y Thread
8	.880 (22.4)	.594 (15.1)	.308 (7.8)	.570 (14.5)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
10	1.019 (25.9)	.719 (18.3)	.433 (11.0)	.720 (18.3)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
12	1.104 (28.0)	.812 (20.6)	.530 (13.5)	.855 (21.7)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
14	1.198 (30.4)	.906 (23.0)	.624 (15.8)	.984 (25.0)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
16	1.280 (32.5)	.969 (24.6)	.687 (17.4)	1.094 (27.8)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
18	1.406 (35.7)	1.062 (27.0)	.780 (19.8)	1.220 (31.0)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
20	1.535 (39.0)	1.156 (29.4)	.874 (22.2)	1.345 (34.2)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
22	1.665 (42.3)	1.250 (31.8)	.968 (24.6)	1.478 (37.5)	.136 (3.5)	.040 (1.0)	4	4-40 UNJC-3B
24	1.738 (44.1)	1.375 (34.9)	.907 (23.0)	1.483 (37.7)	.153 (3.9)	.040 (1.0)	6	6-32 UNJC-3B

Dimensions are in inches (mm).





MILN

Soldering Station

HM Series • MIL-DTL-26482 Series 1 Type Connectors



Ξ

H900 Soldering Station Kit

Our soldering station kit provides a complete solution for professionally terminating solder contacts to stranded or solid core wire.

Features & Benefits

- Temperature range 392° to 896°F (200° to 480°C)
- Adjustable temperature control dial with lock/set screw
- Idle temperature stability of ±1.8°F (1.0°C)
- Ceramic heating element and senor ensure rapid heatup temperature (30 seconds) and fast thermal recovery
- Celsius or Fahrenheit temperature setting
- Slender iron handles are insulated and ergonomically designed for ease and comfort
- ESD-safe design suitable for controlled environments
- 5 interchangeable tips suitable for connector solder contacts ranging from #0 to #22D

Note: The above lists standard options readily available in stock. Please consult an authorized distributor for full range of solder stations, re-work stations, specialty tips, and accessories.

Soldering Station Kit

Part Number	Kit Includes The Following Items
H900	120V / 60W soldering station, iron holder, cleaning sponge, 5 interchangeable tips, rosin-core lead solder, instructions

Replacement Tips

Part Number	For Contact Size	Description	Image
H900-6D	#16, #20, #22D	Chisel (1.6mm Tip)	MILNEC.COM
H900-B	#16, #20	Conical (0.5mm Tip)	MILNEC.COM
H900-2C	#16	45° Beveled (2mm Tip)	
H900-4C	#8, #12	45° Beveled (4mm Tip)	MILNEC.COM
H900-S3	#0, #4	Chisel (5.2mm Tip)	MILNEC.COM



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Don't Lose Touch With Mission Control

Rely on Milnec space-grade connectors for all your high-altitude and space applications. Our space-grade connectors meet all NASA specifications for outgassing and feature triple-start and impact resistant stub threads with self-locking ratchet coupling to ensure secure mating, even in high-vibration environments.



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Application:	Engineer:

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