



MILITARY & DEFENSE EDITION

HR Series
MIL-26482 Series 1 Crimp
MILITARY STYLE CONNECTORS

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

About Us

MILNEC 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 & Mass Transit
- 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

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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

HR Series • MIL-26482 Series 1 Crimp Type Connectors

MIL-DTL-26482 Series 1 Crimp Type Connectors

The HR Series of connectors is the ideal solution for applications requiring the high performance of crimp contacts in an economical connector package. The series is based on MIL-DTL-26482 Series 1 standards and is fully compatible with all military and commercial derivatives. Dependable mating is achieved through secure bayonet coupling, while 5 polarized keyways prevents cross-mating with similar connectors. The connector insert and main joint gasket are molded from resilient neoprene, which provides moisture sealing rated to IP67.



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

Complete IP67 Rated Waterproof Connector Kits

HR 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 strain relief backshells
- Protective covers
- Mounting accessories



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More Options for Complete Design Flexibility

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

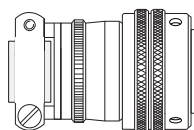
- More shell options, including thru-bulkheads
- Alternate material & RoHS compliant platings
- Specialized hermetic receptacles



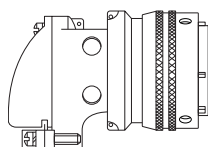
Wide Variety of Connector Shells
Choose from a variety of shell styles for specialized applications, including 90° plugs and hermetic and thru-bulkhead receptacles.

Rev. 2203

Plugs

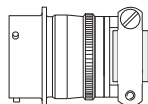


Straight Plug
p. U-12

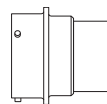


90° Plug
p. U-13

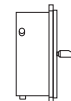
Receptacles



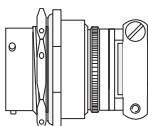
Wall Mount
p. U-14



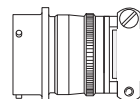
Box Mount
p. U-15



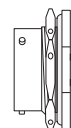
Box Mount (Hermetic)
p. U-19



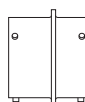
Jam Nut
p. U-16



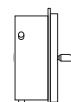
Cable Mount
p. U-17



Jam Nut (Hermetic)
p. U-20

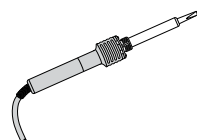


Thru-Bulkhead
p. U-18

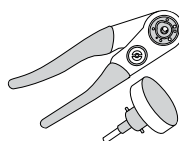


Solder Mount (Hermetic)
p. U-21

Tools

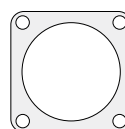


Soldering Station
p. U-26

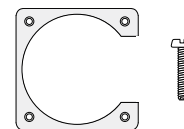


Crimper & Positioner
p. U-9

Mounting

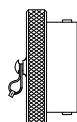


Mounting Gasket
p. U-24

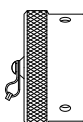


Mounting Bracket & Screws
p. U-25

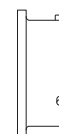
Covers



Plug Cover
p. U-22



Receptacle Cover
p. U-22



Stowage Receptacle
p. U-23

Series Specifications

HR Series • MIL-26482 Series 1 Crimp 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)

Hermetic inserts rated to 75 psi (5.3 kg/cm²)

Salt Spray Rating

See Materials & Finishes, p. U-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

Engagement & Disengagement Force (max / min)

Shell Size 8: .67 ft-lb_f (.908 N-m) / .08 ft-lb_f (.108 N-m)

Shell Size 10: 1.00 ft-lb_f (1.36 N-m) / .08 ft-lb_f (.108 N-m)

Shell Size 12: 1.33 ft-lb_f (1.80 N-m) / .17 ft-lb_f (.230 N-m)

Shell Size 14: 1.67 ft-lb_f (2.26 N-m) / .33 ft-lb_f (.447 N-m)

Shell Size 16: 2.00 ft-lb_f (2.71 N-m) / .33 ft-lb_f (.447 N-m)

Shell Size 18: 2.33 ft-lb_f (3.16 N-m) / .33 ft-lb_f (.447 N-m)

Shell Size 20: 2.66 ft-lb_f (3.61 N-m) / .50 ft-lb_f (.678 N-m)

Shell Size 22: 3.00 ft-lb_f (4.07 N-m) / .58 ft-lb_f (.786 N-m)

Shell Size 24: 3.67 ft-lb_f (4.97 N-m) / .58 ft-lb_f (.786 N-m)

Polarization

Single master key and keyway on top position of shell

Four minor keys and keyways on shell

Insert Arrangements

27 standard, custom inserts available

Insert Rotations

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

Endurance Characteristics

Coupling Cycles

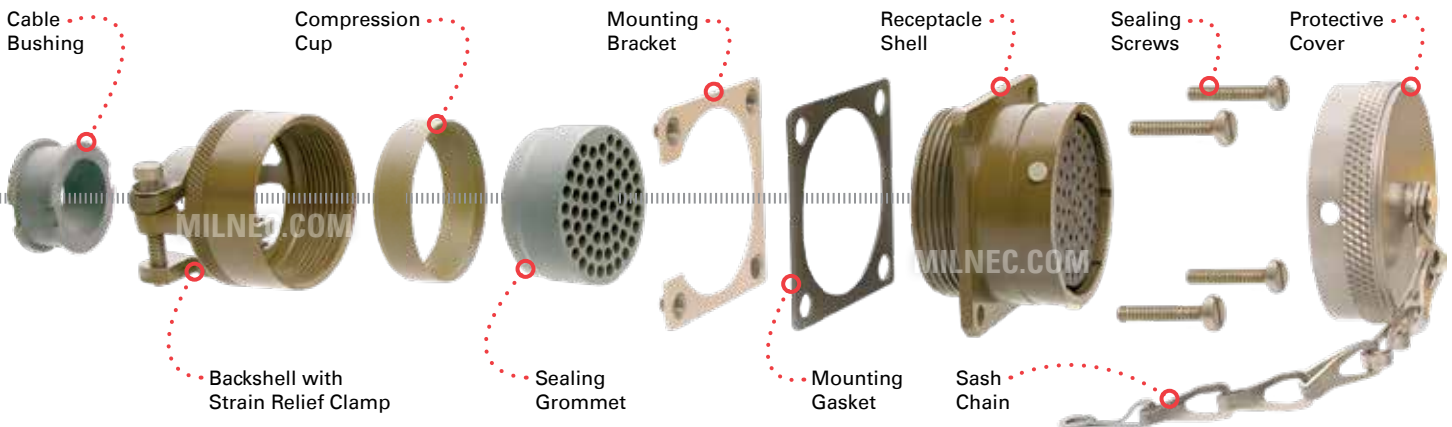
500 coupling cycles (minimum)

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



Connectors shown for illustrative purposes only, actual design may differ.

Rev. 2203

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. U-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

Environmental

Removable, rear-release crimp contacts

Hermetic

Solder style, permanently bonded to insert

Contact Sizes

#16, #20

Contacts

Copper alloy

Contact Plating

Environmental

Gold plate, 50 pinches (1.27 μ m) minimum

Hermetic

Tin plate, 50 pinches (1.27 μ m) minimum

Gold plated contacts (special order)

Max Number of Contacts

61 standard, custom inserts available

Max Contact Resistance

9 milliohm maximum resistance

Potential Voltage Drop

25 millivolt maximum voltage drop (initial)

Contact Retention

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

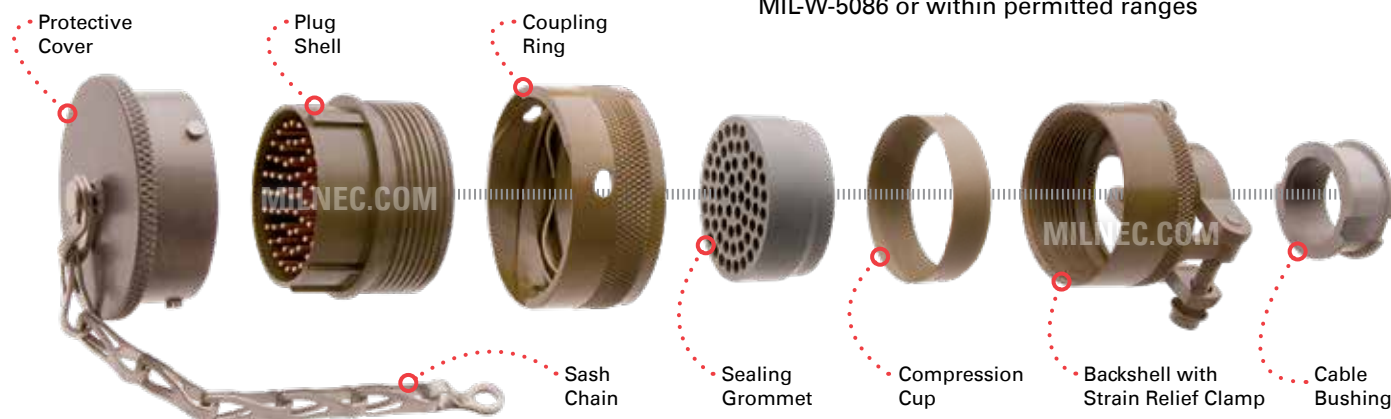
>5,000 megohms at 77°F (25°C)

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



Rev. 2203

Materials & Finishes

HR Series • MIL-26482 Series 1 Crimp Type Connectors

HR Series Finishes

A 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 HR 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 HR Series, including RoHS finishes for legislative compliance and environmental responsibility. ■

Standard HR Series Materials & Finishes

Finish Code	Finish	Hermetic Only	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
F	Olive Drab Cadmium		✓		Drab Olive	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)

Special HR Series Materials & Finishes*

Finish Code	Finish	Hermetic Only	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
B	Hardcoat Anodize			✓	Grey to Black	Aluminum	336 hrs	-67° to +257°F (-55° to +125°C)
BA								
N	Electroless Nickel		✓	✓	Bright Metal	Aluminum	48 hrs	-67° to +257°F (-55° to +125°C)
NA								
C	Zinc Cobalt			✓	Black	Aluminum	125 hrs	-67° to +257°F (-55° to +125°C)
CA								
CB			✓	✓				
CC								
T	Hard Anodic			✓	Grey	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
TA								
HA	Passivated	✓	✓	✓	Matte Metal	SST Steel	1,000 hrs	-67° to +392°F (-55° to +200°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 HR 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.

- Finish Specification: SAE-AMS-QQ-P-416 II Class 2
- Appearance: Military Olive Drab Green
- Sheen: Flat, Low Gloss
- Max Temp. Rating: 347°F (175°C)
- Salt Spray Rating: 500 hours
- 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

HR Series • MIL-26482 Series 1 Crimp Type Connectors

How to Build Your HR Connector Part Number

A 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 HR Series connector that designates, 1) Milnec HR 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. ■

HR00 F 14-18 S N - 02

1 2 3 4 5 6

1 Series Shell Style

Standard Environmental Shells

HR06	Straight plug w/ backshell, p. U-12
HR08	90° plug w/ backshell, p. U-13
.....	
HR00	Wall mount recept. w/ backshell, p. U-14
HR01	Cable mount recept. w/ backshell, p. U-17
HR02	Box mount receptacle, p. U-15
HR07	Jam nut receptacle w/ backshell, p. U-16

Hermetic Receptacle Shells

HR12	Box mount receptacle, p. U-19
HR13	Jam nut receptacle, p. U-20
HR19	Solder mount receptacle, p. U-21

For non-standard shell styles, including thru-bulkhead receptacles, please see specific datasheet for part numbering and kitting options.

2 Material & Finish

F	Olive drab cadmium (aluminum) 500 hr. dynamic salt spray rating
H	Tin over nickel (carbon steel) (Hermetic receptacles only) 48 hr. dynamic salt spray rating

For complete materials and finishes options, including RoHS, see p. U-6.

3 Shell Size & Insert Arrangement

See Insert Arrangement Selection table, p. U-9

4 Contact Style

Standard Crimp Contacts

P	Pin
S	Socket

Hermetic Receptacle Solder Contacts

P	Pin only, tin plated (standard)
G*	Pin only, gold plated

* Please consult an authorized distributor for lead time and minimum quantity requirements.

5 Insert Rotation

Normal Rotation

N	Normal rotation
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Alternate Rotations

W, X, Y, Z	Alternate rotations
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See Insert Arrangement Selection table on p. U-9.
(Not all rotations are available for every arrangement.)

6 Optional Accessory Kit (Omit for None)

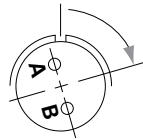
01	For Plugs: Protective cover, p. U-22
02	For Receptacles: Protective cover, p. U-22 + Mounting gasket, p. U-24
03	For Receptacles: Protective cover, p. U-22 + Mounting gasket, p. U-24 + Mounting bracket, p. U-25 with (4x) sealing screws

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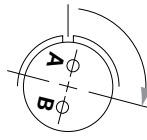
Selecting Your Insert Arrangement & Rotation

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.

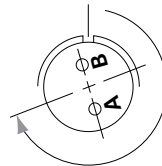
Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements. ■



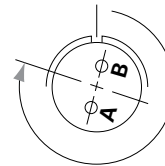
Position W



Position X



Position Y



Position Z

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

Insert Arrangement Selection

Insert Arrangement	Total Contacts	Contact Size		Service Rating	Alternate Insert Rotation			
		#20	#16		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°	
8-33	3	3		I	90°			
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	II	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°
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°
20-39	39	37	2	I	63°	144°	252°	333°
20-41	41	41		I	45°	126°	225°	
22-21	21		21	II	16°	135°	175°	349°
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°

* Uses HRPB20 and HRSB20 contacts.

Insert Arrangement Drawings

HR Series • MIL-26482 Series 1 Crimp Type Connectors

Arrangement

Service Rating

Number of Contacts



8-2

I

2 x #20



8-3

I

3 x #20



8-33

I

3 x #20



8-4

I

4 x #20



10-6

I

6 x #20



10-98

I

6 x #20



12-3

II

3 x #16



12-8

I

8 x #20



12-10

I

10 x #20



14-5

II

5 x #16



14-12

I

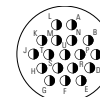
8 x #20
4 x #16



14-15

I

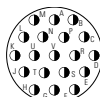
14 x #20
1 x #16



14-18

I

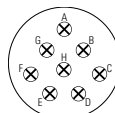
18 x #20



14-19

I

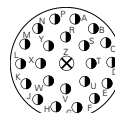
19 x #20



16-8

II

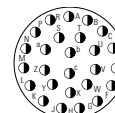
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16-23

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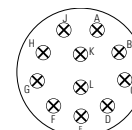
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16-26

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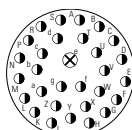
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18-11

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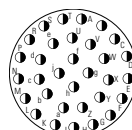
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18-30

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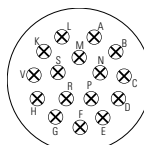
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18-32

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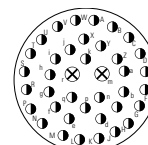
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20-16

II

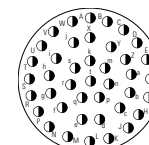
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20-39

I

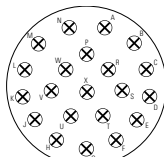
37 x #20
2 x #16



20-41

I

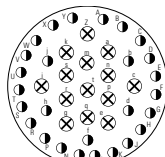
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22-21

II

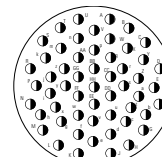
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22-41

I

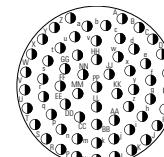
27 x #20
14 x #16



22-55

I

55 x #20



24-61

I

61 x #20

Arrangement

Service Rating

Number of Contacts

Contact Legend #16 ⊗ #20 ●

Rev. 2203

Contact Specifications

HR Series • MIL-26482 Series 1 Crimp Type Connectors

Standard Contacts, Sealing Plugs, & Tooling

Contact Size	Contact Style	Part Number	Wire Size (AWG)	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner (Turret)	Insertion Tool	Extraction Tool
#20	Pin	HRPP20	20, 22, & 24	.020–.032 (.51–.81)	.185 (4.70)	TK101A (Hand Crimper)	TP102	TN703	TX907
	Socket	HRSS20					TP254		
	Pin	HRPB20*					—		
	Socket	HRSB20*					—		
	Sealing Plugs	HRSP20					—		
#16	Pin	HRPP16	16, 18, & 20	.032–.050 (.81–1.29)	.250 (6.40)		TP102	TN704	TX908
	Socket	HRSS16					—		
	Sealing Plugs	HRSP16					—		

Dimensions are in inches (mm) unless otherwise noted. * Contacts for use with 8-2, 8-3, 8-4, 10-98 inserts only.

Wire Dimensions

Contact Size	Wire Range		Potential Drop (Millivolts)	Max Contact Resistance (Milliohm)	Crimp Well Diameter	Min Crimp Well Depth	Contact Retention Min Axial Load Pounds (Newtons)
	AWG	Dia					
#20	20, 22, 24	.020–.032 (.51–.81)	25	9	.049 (1.24)	.250 (6.35)	15 (66.7)
#16	16, 18, 20	.032–.050 (.81–1.29)	21	6	.067 (1.70)	.236 (5.99)	25 (111.2)

Dimensions are in inches (mm) unless otherwise noted.

Contact Derating Specifications

Service Rating	Max Operating Voltage Sea Level		Test Voltage			
	AC (RMS)	DC	Sea Level AC (RMS)	50,000 ft AC (RMS)	70,000 ft AC (RMS)	110,000 ft 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.

Current Rating By Contact Size & Wire Size

Wire Size (AWG)	Contact Size	
	#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.

Torque Values For Cable Clamp Screws

Screw Size	Recommended Torque	
	Min	Max
#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).

Coupling Torque

Shell Size	Maximum Engagement & Disengagement	Minimum Disengagement
8	8 (.9)	
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)	
24	44 (5.0)	7 (.8)

Units are in inch pounds (Newton meters).

Wire Sealing Range

Contact Size	Wire Size (AWG)	Insulation Outside Diameter Range	
		Min	Max
#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.

Rev. 2203

MS3126 Connector Type Datasheet

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HR06 F 14-19 P N - 01

- 1 **BASIC PART NUMBER**
HR06 Straight plug w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
01 Protective cover

HR06 Cross Reference & Compatibility

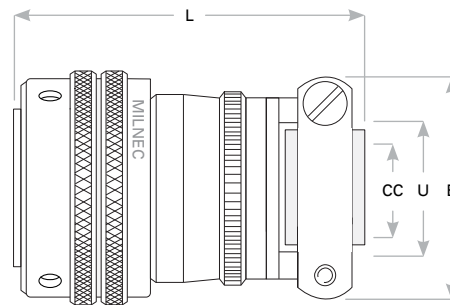
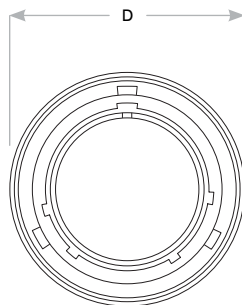
Compatible Brands	Equivalents	Mates
MIL-26482 Series 1 Crimp	MS3126	MS3120, MS3121, MS3122, MS3124
Amphenol	PT06SE	PT00SE, PT01SE, PT02SE, PT07SE
Array	PWF06	PWF00, PWF01, PWF02, PWF07
ITT Cannon	KPSE06	KPSE00, KPSE01, KPSE02, KPSE07
Souriau	85106	85100, 85101, 85102, 85107

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

Plug Dimensions

Shell Size	D	L	B	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).



Rev. 2203

90° MIL-26482 Plug Datasheet

HR Series • MIL-26482 Series 1 Crimp Type Connectors

HR08 F 14-19 P N - 01



- 1 **BASIC PART NUMBER**
HR08 90° plug w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
01 Protective cover

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

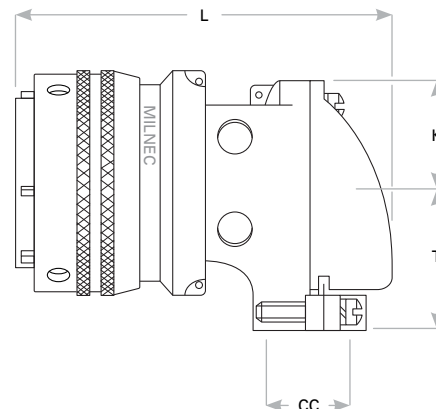
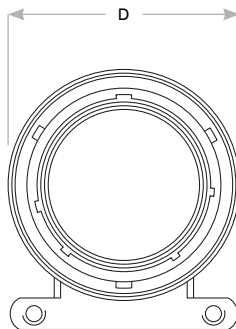
HR08 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-26482 Series 1 Crimp	—	MS3120, MS3121, MS3122, MS3124
Amphenol	PT08SE	PT00SE, PT01SE, PT02SE, PT07SE
Array	PWF08	PWF00, PWF01, PWF02, PWF07
ITT Cannon	KPSE08	KPSE00, KPSE01, KPSE02, KPSE07
Souriau	85108	85100, 85101, 85102, 85107

Plug Dimensions

Shell Size	D	L	K	T	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).



Rev. 2203

MS3120 Connector Type Datasheet

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HR00 F 14-18 S N - 03

- 1 **BASIC PART NUMBER**
HR00 Wall mount receptacle w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

HR00 Cross Reference & Compatibility

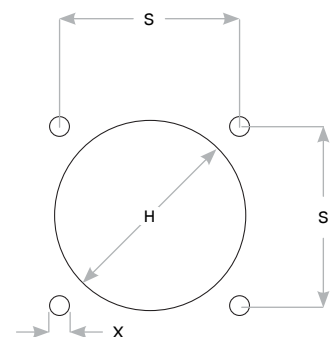
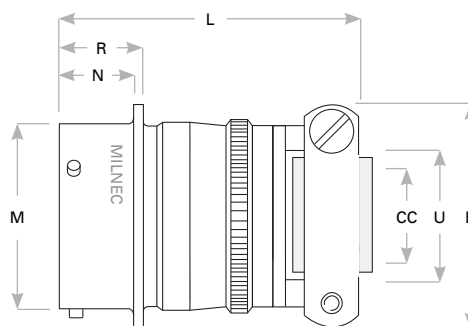
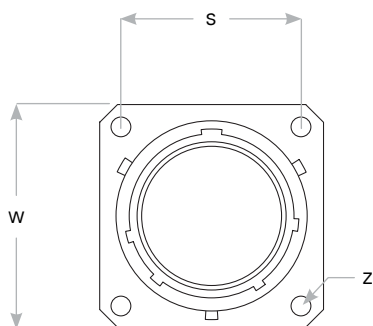
Compatible Brands	Equivalent	Mates
MIL-26482 Series 1 Crimp	MS3120	MS3126
Amphenol	PT00SE	PT06SE, PT08SE
Array	PWF00	PWF06, PWF08
ITT Cannon	KPSE00	KPSE06, KPSE08
Souriau	85100	85106, 85108

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

Receptacle Dimensions

Shell Size	W	Z	L	R	N	M	B	U	CC Cable Clearance	S	X	H
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

Rev. 2203

MS3122 Connector Type Datasheet

HR Series • MIL-26482 Series 1 Crimp Type Connectors

HR02 F 14-19 S W - 03

1 2 3 4 5 6

- 1 **BASIC PART NUMBER**
HR02 Box mount receptacle
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

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



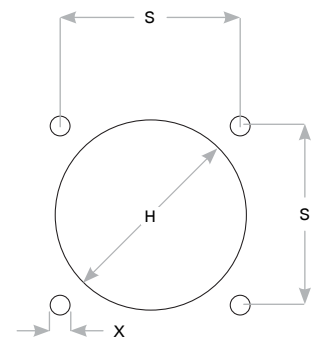
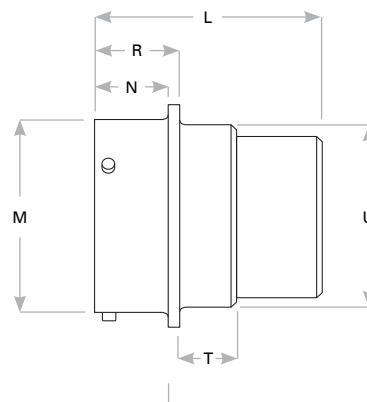
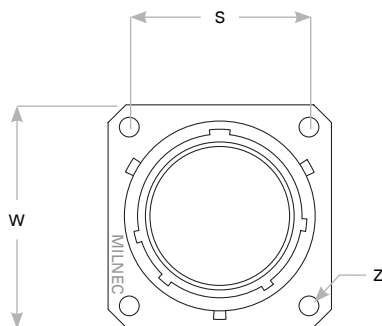
HR02 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-26482 Series 1 Crimp	MS3122	MS3126
Amphenol	PT02SE	PT06SE, PT08SE
Array	PWF02	PWF06, PWF08
ITT Cannon	KPSE02	KPSE06, KPSE08
Souriau	85102	85106, 85108

Receptacle Dimensions

Shell Size	W	Z	L	R	N	M	T	U	S	X	H
8	.828 (21.0)	.120 (3.0)	1.296 (32.9)	.493 (12.5)	.431 (10.9)	.473 (12.0)	.312 (7.9)	.438 (11.1)	.594 (15.1)	.120 (3.1)	.449 (11.4)
10	.954 (24.2)	.120 (3.0)	1.296 (32.9)	.493 (12.5)	.431 (10.9)	.590 (15.0)	.312 (7.9)	.562 (14.3)	.719 (18.3)	.120 (3.1)	.573 (14.6)
12	1.047 (26.6)	.120 (3.0)	1.296 (32.9)	.493 (12.5)	.431 (10.9)	.750 (19.1)	.312 (7.9)	.688 (17.5)	.812 (20.6)	.120 (3.1)	.699 (17.8)
14	1.141 (29.0)	.120 (3.0)	1.296 (32.9)	.493 (12.5)	.431 (10.9)	.875 (22.2)	.312 (7.9)	.812 (20.6)	.906 (23.0)	.120 (3.1)	.823 (20.9)
16	1.234 (31.3)	.120 (3.0)	1.296 (32.9)	.493 (12.5)	.431 (10.9)	1.000 (25.4)	.312 (7.9)	.938 (23.8)	.969 (24.6)	.120 (3.1)	.949 (24.1)
18	1.328 (33.7)	.120 (3.0)	1.296 (32.9)	.493 (12.5)	.431 (10.9)	1.125 (28.6)	.312 (7.9)	1.062 (27.0)	1.062 (27.0)	.120 (3.1)	1.073 (27.3)
20	1.453 (36.9)	.120 (3.0)	1.358 (34.5)	.650 (16.5)	.556 (14.1)	1.250 (31.8)	.406 (10.3)	1.188 (30.2)	1.156 (29.4)	.120 (3.1)	1.199 (30.5)
22	1.578 (40.1)	.120 (3.0)	1.358 (34.5)	.650 (16.5)	.556 (14.1)	1.375 (34.9)	.406 (10.3)	1.312 (33.3)	1.250 (31.8)	.120 (3.1)	1.323 (33.6)
24	1.703 (43.3)	.147 (3.7)	1.358 (34.5)	.683 (17.3)	.589 (15.0)	1.500 (38.1)	.406 (10.3)	1.438 (36.5)	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**

Rev. 2203

MS3124 Connector Type Datasheet

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HR07 F 14-18 S N - 02

- 1 **BASIC PART NUMBER**
HR07 Jam nut recept. w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover

HR07 Cross Reference & Compatibility

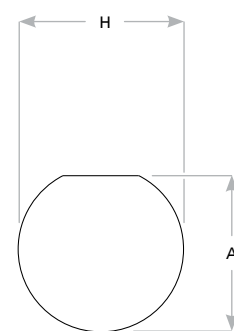
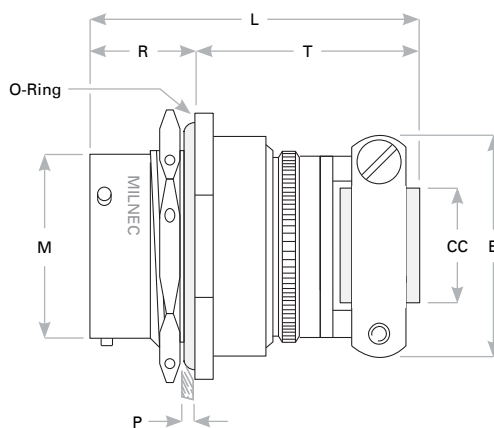
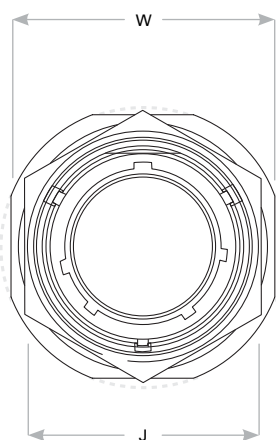
Compatible Brands	Equivalent	Mates
MIL-26482 Series 1 Crimp	MS3124	MS3126
Amphenol	PT07SE	PT06SE, PT08SE
Array	PWF07	PWF06, PWF08
ITT Cannon	KPSE07	KPSE06, KPSE08
Souriau	85107	85106, 85108

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

Receptacle Dimensions

Shell Size	W	J	L	R	M	T	B	CC Cable Clearance	P Max Rear Panel†	H	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

Rev. 2203

MS3121 Connector Type Datasheet

HR Series • MIL-26482 Series 1 Crimp Type Connectors

HR01 F 14-18 S N - 02

- 1 **BASIC PART NUMBER**
HR01 Cable mount recept. w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover



HR01 Cross Reference & Compatibility

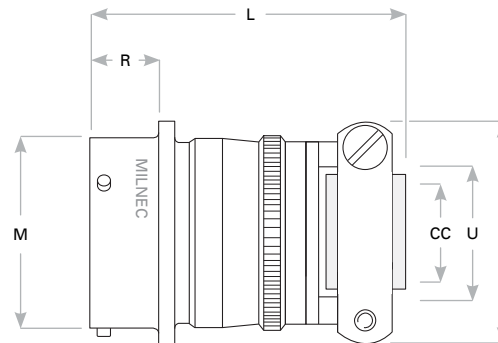
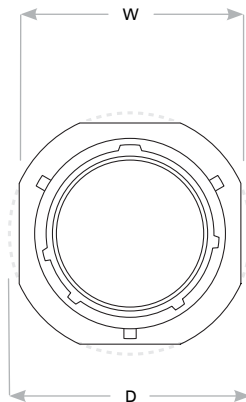
Compatible Brands	Equivalent	Mates
MIL-26482 Series 1 Crimp	MS3121	MS3126
Amphenol	PT01SE	PT06SE, PT08SE
Array	PWF01	PWF06, PWF08
ITT Cannon	KPSE01	KPSE06, KPSE08
Souriau	85101	85106, 85108

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

Receptacle Dimensions

Shell Size	W	D	L	R	M	B	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).



Rev. 2203

Thru-Bulkhead Receptacle

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HR22 F 14-18 PS N - 02

- 1 **BASIC PART NUMBER**
HR22 Thru-bulkhead receptacle
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
PS Pin / socket (non-configurable)
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective covers (2x) + mounting gasket
03 02 kit + mounting bracket + sealing screws

HR22 Compatibility

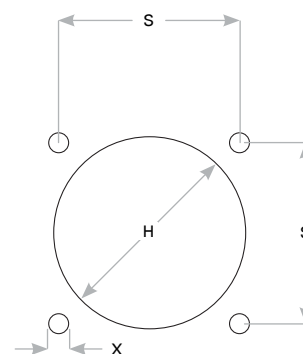
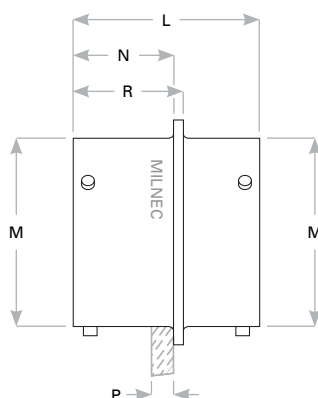
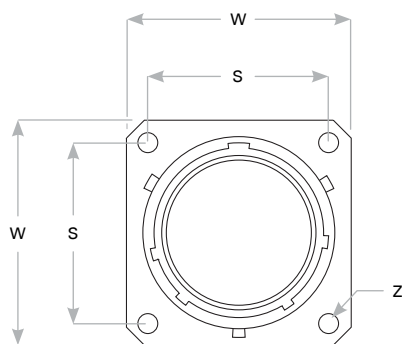
Compatible Brands	Mates
MIL-26482 Series 1 Crimp	MS3126
Amphenol	PT06SE, PT08SE
Array	PWF06, PWF08
ITT Cannon	KPSE06, KPSE08
Souriau	85106, 85108

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

Receptacle Dimensions

Shell Size	W	Z	L	R	N	M	P Max Rear Panel [†]	S	X	H
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

Rev. 2203

Box Mount Receptacle (Hermetic)

HR Series • MIL-26482 Series 1 Crimp Type Connectors

HR12 H 14-15 P N - 02

1 2 3 4 5 6

1 BASIC PART NUMBER

HR12 Hermetic box mount receptacle
Helium leakage < 1.0×10^{-7} cc³/sec at 15 psi
(1.1 kg/cm²) Insert rated to 75 psi (5.3 kg/cm²)

2 MATERIAL & FINISH

H Carbon steel, tin plating over nickel

3 SHELL SIZE & INSERT ARRANGEMENT

See Insert Arrangement Selection table, p. U-9

4 CONTACT STYLE

P 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

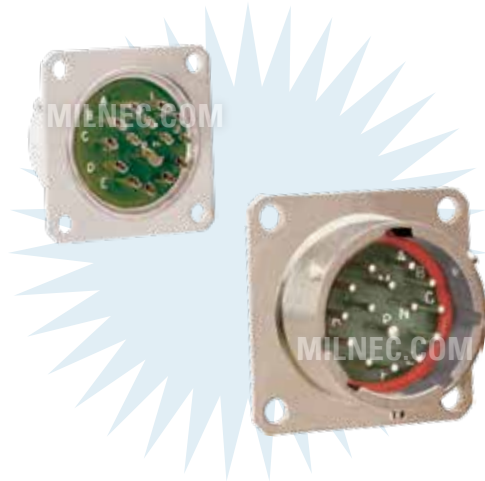
5 INSERT ROTATION

N Normal or W, X, Y, Z, see p. U-9 for availability

6 OPTIONAL ACCESSORY KIT (OMIT FOR NONE)

02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

* Please consult an authorized distributor for lead time and minimum quantity requirements.



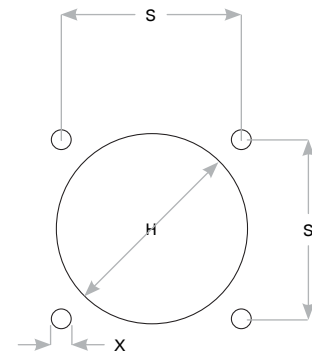
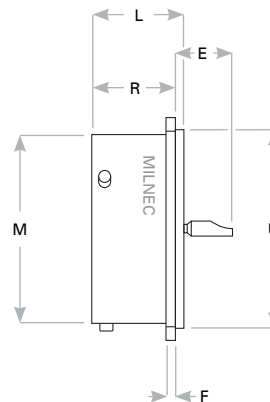
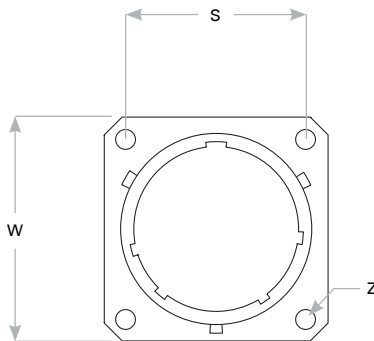
HR12 Compatibility

Compatible Brands	Mates
MIL-26482 Series 1 Crimp	MS3126
Amphenol	PT06SE, PT08SE
Array	PWF06, PWF08
ITT Cannon	KPSE06, KPSE08
Souriau	85106, 85108

Receptacle Dimensions

Shell Size	W	Z	L	R	M	F	E	U	S	X	H
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

Rev. 2203

Jam Nut Receptacle (Hermetic)

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HR13 Compatibility

Compatible Brands	Mates
MIL-26482 Series 1 Crimp	MS3126
Amphenol	PT06SE, PT08SE
Array	PWF06, PWF08
ITT Cannon	KPSE06, KPSE08
Souriau	85106, 85108

HR13 H 12-3 P N - 02

- 1 **BASIC PART NUMBER**
HR13 Hermetic jam nut receptacle
Helium leakage < 1.0 x10⁻⁷ cc³/sec at 15 psi
(1.1 kg/cm²) Insert rated to 75 psi (5.3 kg/cm²)
- 2 **MATERIAL & FINISH**
H Carbon steel, tin plating over nickel
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P 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 ROTATION**
N Normal or W, X, Y, Z, see p. U-9 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover

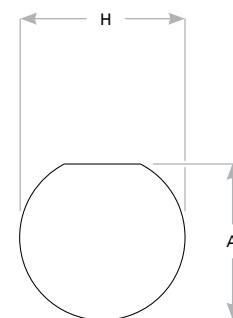
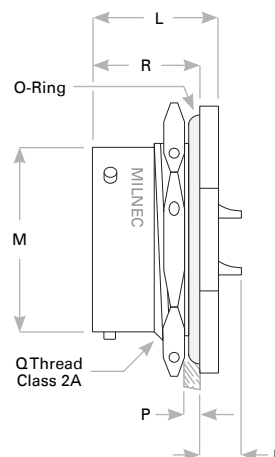
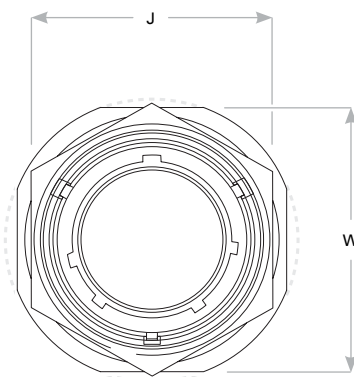
* Please consult an authorized distributor for lead time and minimum quantity requirements.

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

Receptacle Dimensions

Shell Size	W	J	L	R	M	Q Thread Class 2A	E	P Max Rear Panel†	H	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.



Panel Cutout

Rev. 2203

Solder Mount Receptacle (Hermetic)

HR Series • MIL-26482 Series 1 Crimp Type Connectors

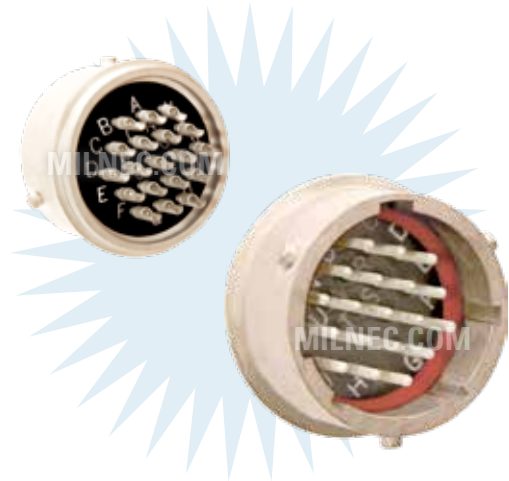
HR19 H 14-19 P N - 02

1 2 3 4 5 6

- 1 **BASIC PART NUMBER**
HR19 Hermetic solder mount receptacle
Helium leakage < 1.0 x10⁻⁷ cc³/sec at 15 psi
(1.1 kg/cm²) Insert rated to 75 psi (5.3 kg/cm²)
- 2 **MATERIAL & FINISH**
H Carbon steel, tin plating over nickel
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. U-9
- 4 **CONTACT STYLE**
P 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 ROTATION**
N Normal or W, X, Y, Z, see p. U-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.

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



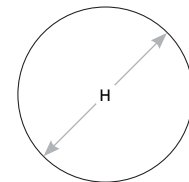
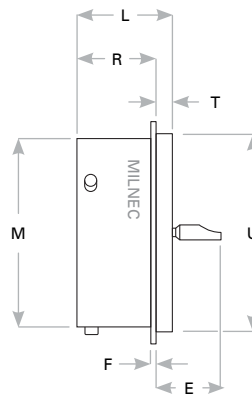
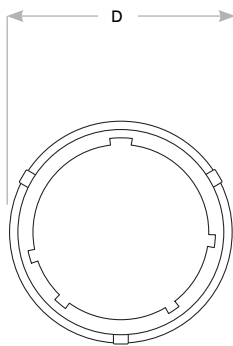
HR19 Compatibility

Compatible Brands	Mates
MIL-26482 Series 1 Crimp	MS3126
Amphenol	PT06SE, PT08SE
Array	PWF06, PWF08
ITT Cannon	KPSE06, KPSE08
Souriau	85106, 85108

Receptacle Dimensions

Shell Size	D	L	R	M	F	T	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).



Panel Cutout

Rev. 2203

Protective Covers

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HRCP - 14 B E

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

HRCP & HRCR Compatibility

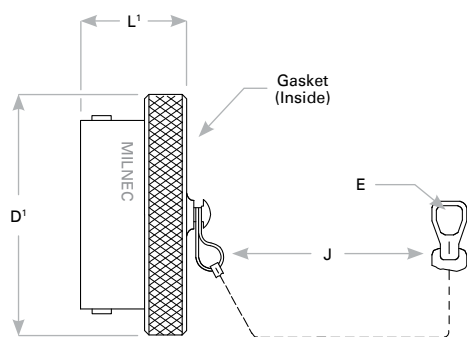
Compatible Brands	Plugs	Receptacles
MIL-26482 Series 1 Crimp	MS3126	MS3120, MS3121, MS3122, MS3124
Amphenol	PT06SE, PT08SE	PT00SE, PT01SE, PT02SE, PT07SE
Array	PWF06, PWF08	PWF00, PWF01, PW02, PWF07
ITT Cannon	KPSE06, KPSE08	KPSE00, KPSE01, KPT02, KPSE07
Souriau	85106, 85108	85100, 85101, 85102, 85107

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

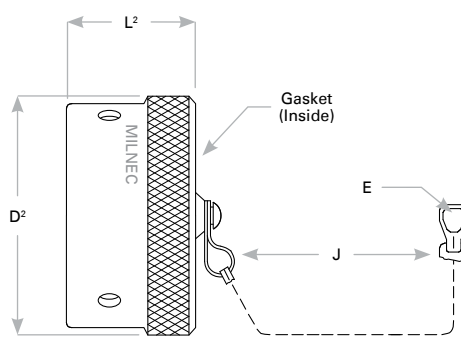
Protective Cover Dimensions

Shell Size	L ¹	D ¹	E	J Chain Length	L ²	D ²	H
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)

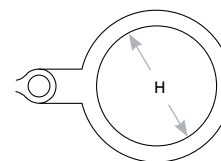
Dimensions are in inches (mm).



Plug Cover



Receptacle Cover



Jam Nut Ring Attachment

Rev. 2203

HRCD - 14 F - 03

- 1 **BASIC PART NUMBER**
HRCD Stowage receptacle
- 2 **SHELL SIZE**
See Stowage Receptacle Dimensions table below
- 3 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 4 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket
03 02 kit + mounting bracket + sealing screws

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



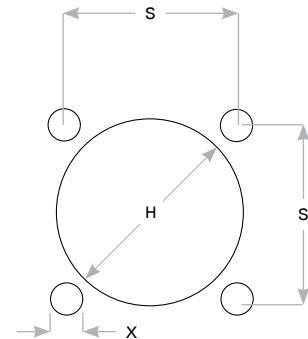
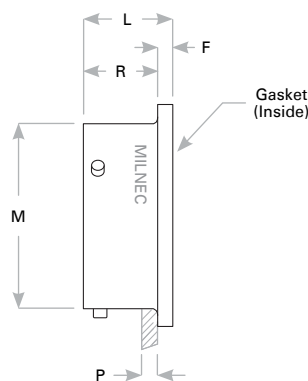
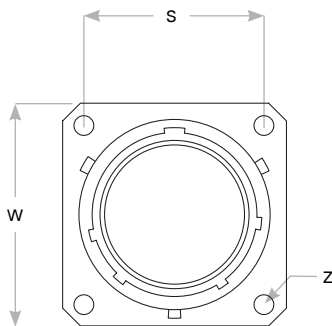
HRCD Compatibility

Compatible Brands	Plugs
MIL-26482 Series 1 Crimp	MS3126
Amphenol	PT06SE, PT08SE
Array	PWF06, PWF08
ITT Cannon	KPSE06, KPSE08
Souriau	85106, 85108

Stowage Receptacle Dimensions

Shell Size	W	Z	L	R	M	F	P Max Rear Panel†	S	X	H
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)
12	1.047 (26.6)	.120 (3.0)	.540 (13.8)	.478 (12.2)	.748 (19.0)	.062 (1.6)	.125 (3.2)	.812 (20.6)	.120 (3.1)	.699 (17.8)
14	1.141 (29.0)	.120 (3.0)	.540 (13.8)	.478 (12.2)	.873 (22.2)	.062 (1.6)	.125 (3.2)	.906 (23.0)	.120 (3.1)	.823 (20.9)
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)	.120 (3.1)	.949 (24.1)
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)
20	1.453 (36.9)	.120 (3.0)	.666 (16.9)	.572 (14.5)	1.248 (31.7)	.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)	.094 (2.4)	.250 (6.4)	1.250 (31.8)	.120 (3.1)	1.323 (33.6)
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)

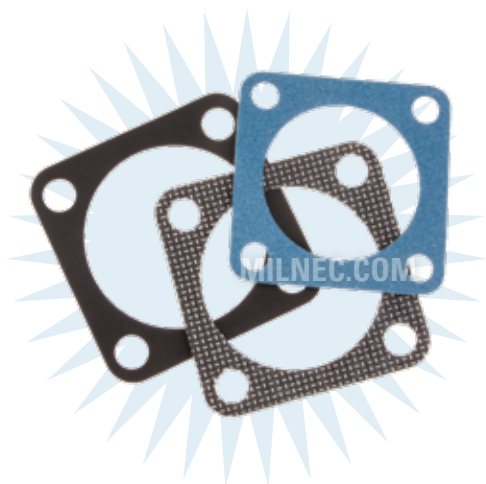
Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Mounting Gasket

HR Series • MIL-26482 Series 1 Crimp Type Connectors



HRGE - 14

1 2

BASIC PART NUMBER

- HRGE** Neoprene environmental (weather resistant)
Temp. range -40°F to +230°F (-40°C to +110°C)
- HRGL** 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
- HRGD** 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

HRGE Compatibility

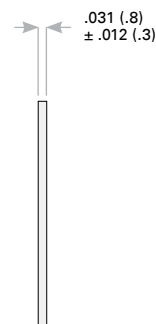
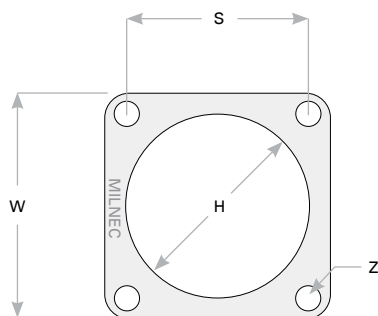
Compatible Brands	Receptacles
MIL-26482 Series 1 Crimp	MS3120, MS3122
Amphenol	PT00SE, PT02SE
Array	PWF00, PWF02
ITT Cannon	KPSE00, KPSE02
Souriau	85100, 85102

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

Gasket Dimensions

Shell Size	W	S	Z	H
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).



Rev. 2203

HRMB - 14 - A

1 2 3

1 BASIC PART NUMBER

HRMB Mounting bracket, aluminum alloy
with SST locking nuts

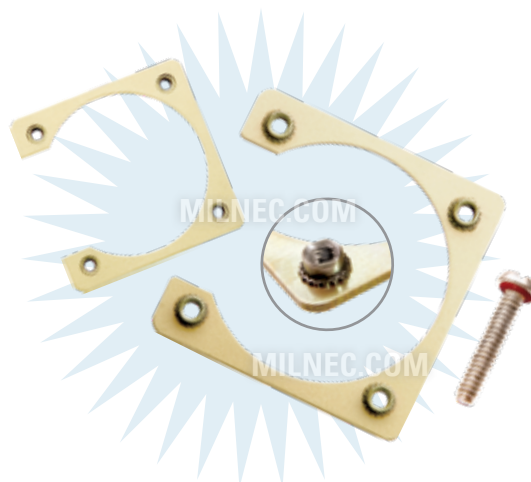
2 SHELL SIZE

See Bracket Dimensions table below

3 OPTIONAL FASTENER KIT (OMIT FOR NONE)

- 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. U-8) for additional kit options.



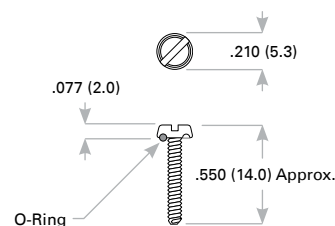
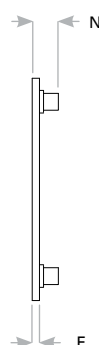
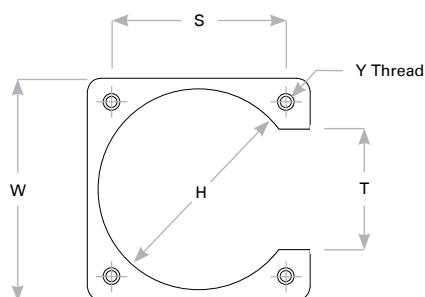
HRMB Compatibility

Compatible Brands	Receptacles
MIL-26482 Series 1 Crimp	MS3120, MS3122
Amphenol	PT00SE, PT02SE
Array	PWF00, PWF02
ITT Cannon	KPSE00, KPSE02
Souriau	85100, 85102

Bracket Dimensions

Shell Size	W	S	T	H	N	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).



Hand Crimpers & Positioners

HR Series • MIL-26482 Series 1 Crimp Type Connectors



Precision Hand Crimpers

A crimp tool provides reliable crimp termination of contacts for mission-critical applications. A hand crimper is suitable for contacts from size #12 to #22D. For production environments, pneumatic crimpers are also available.

Our tools feature an 8-impession crimp, which ensures maximum tensile strength between wire and contact. Their cycle controlled ratchets are consistent and accurate and do not permit half crimps, ensuring complete and precise crimping every time.

The tool frames have a built-in 8-step selector knob for easy adjustment of crimp depth to accommodate the size of wire being used. Data plates on positioners provide setting information specific to the size of wires and contacts being used.

There are a variety of crimp tools and positioners available to fit the various sized contacts within each connector series. We have paired our most popular models with their required positioner(s) to ensure complete compatibility.

Hand Crimper & Positioner Kits

Part Number	Kit Includes the Following Items	Contacts Sizes	Milnec Series Compatibility	Mil-Spec Series Compatibility
TK101-KIT	TK101A crimp tool with TP104 turret positioner	#20, #16, #12	DL Series, DS, Series, TX Series	MIL-DTL-38999 Series I, II, III
TK101B-KIT	TK101A crimp tool with TP102 turret positioner	#20, #16, #12	BM Series, EV Series, TM Series, HR Series	MIL-DTL-26482 Series I, II MIL-DTL-83723 Series III MIL-DTL-5015 Crimp*
TK201-KIT	TK201 crimp tool with the following positioners: TP209 (for pins), TP207 (for sockets)	#22, #22M, #22D	DL Series, TX Series	MIL-DTL-38999 Series I MIL-DTL-38999 Series III
TK201B-KIT	TK201 crimp tool with the following positioners: TP209 (for pins), TP206 (for sockets)	#22, #22M, #22D	DS Series	MIL-DTL-38999 Series II

* Contacts size #8 and larger require pneumatic crimper. When this is not an option, wires may be soldered directly into contact wire well. For mission critical applications, crimping is preferred termination method. Rev. 2203



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 sensor ensure rapid heat-up 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.

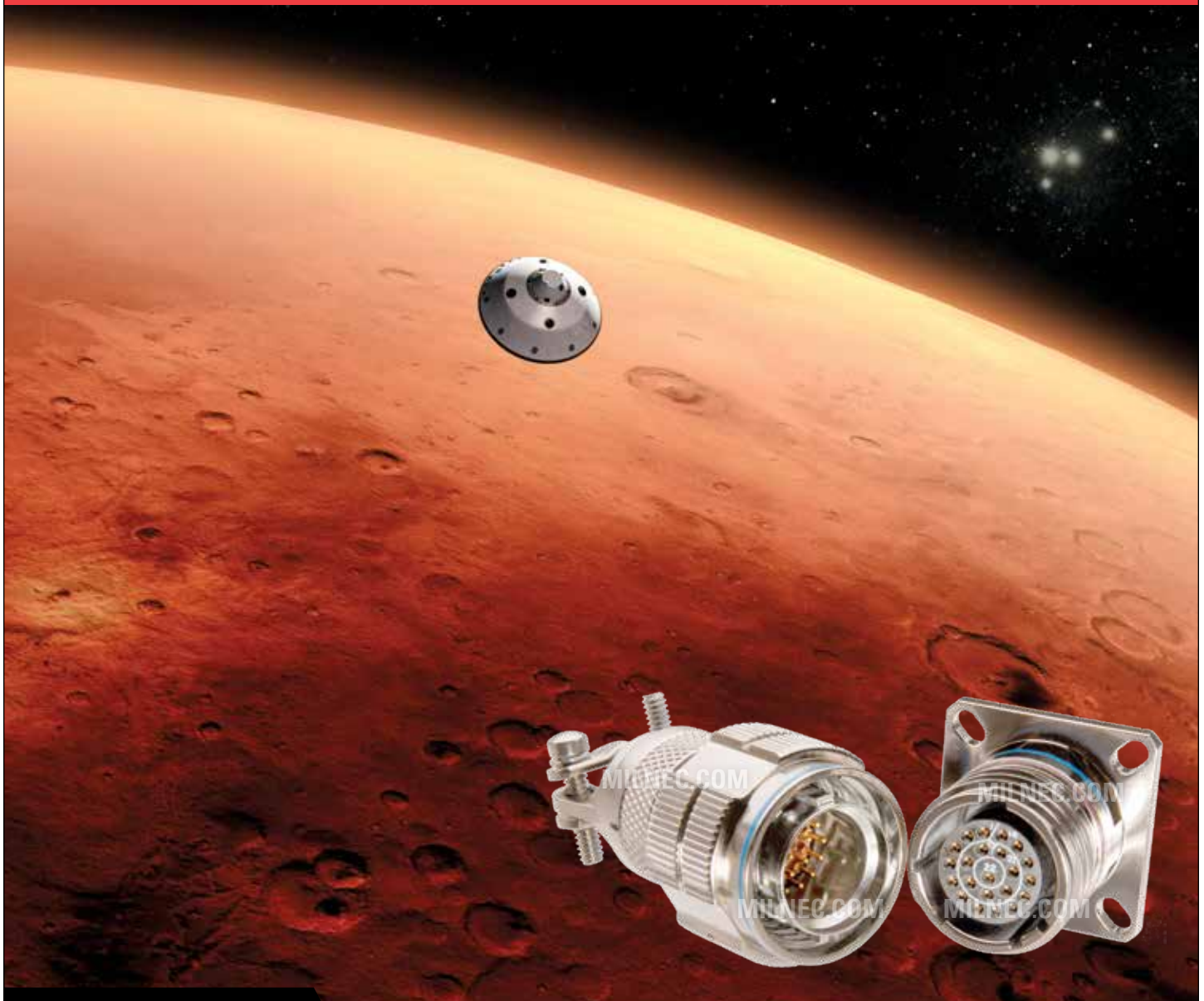
Soldering Station Kit

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)	
H900-B	#16, #20	Conical (0.5mm Tip)	
H900-2C	#16	45° Beveled (2mm Tip)	
H900-4C	#8, #12	45° Beveled (4mm Tip)	
H900-S3	#0, #4	Chisel (5.2mm Tip)	

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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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