

PS Series

POWER & SIGNAL



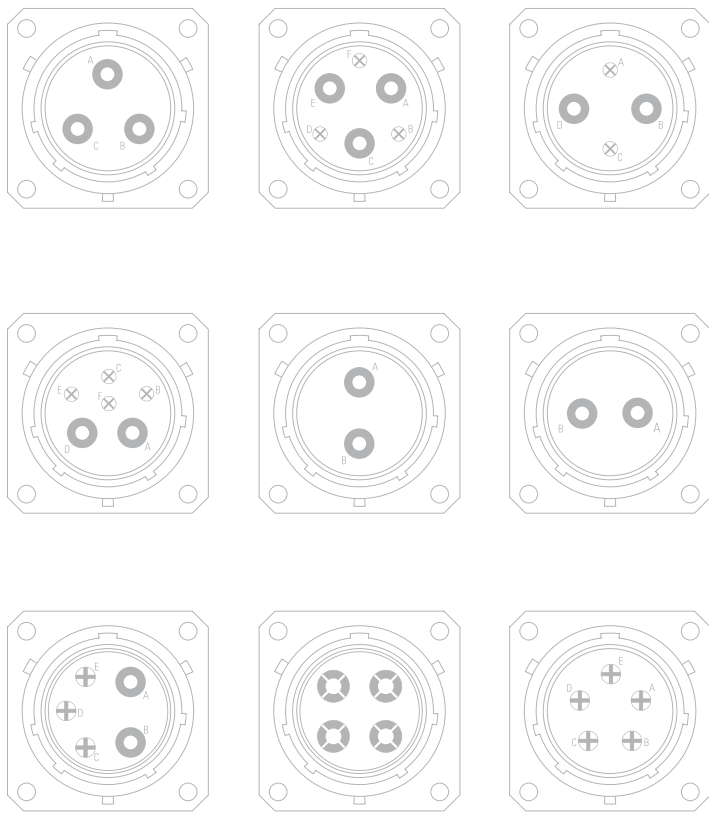
The PS Series of ruggedized environmental solder connectors provides a complete solution for mixed power and signal cables engineered for the toughest industrial applications. The PS Series offers a complete line of accessories and all-in-one kits that include everything required for high-reliability electrical connections.

- IP67 Environmental Rating
- 126 Insert Arrangements
- 0 to 22 AWG Compatible
- 150 Amps Rated
- Heavy Duty Metal Shells
- Vibration & Shock Resistant

Rev. 1301.1



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Features & Benefits

PS Series • High-Performance Solder Connectors

Ruggedized Connectors for Power & Signal

In today's automated industrial environments where a mixture of power and signal is essential to keep production going, nothing is more reliable than Milnec's PS Series heavy duty, environmental resistant solder connectors. This high-performance series provides an economical yet reliable metal connector solution able to meet and exceed an IP67 environmental protection rating. PS Series connectors accommodate a wide range of wire sizes for both signal and power transmissions and are suitable for both general duty and harsh industrial applications.

- Durable metal shell for long service life
- Rated for up to 150 amps
- Wide range of insert arrangements
- Full array of sealing accessory kits for complete environmental installations



Design Flexibility Without Compromise

With the design flexibility of 126 insert arrangements, PS Series connectors are ideal for any mixed signal and power application requiring a connector that is durable and environmentally resistant.



Signal & Power in One Connector

With five contact sizes ranging from #0 to #16, engineers have the option of running signal and high power (up to 150A) through the same connector.

Outdoor Protection, No Matter the Weather

Sealing grommet ensures each wire is individually sealed, while a tough metal exterior with integrated cable clamp provides strain relief. Optional cable bushing (pictured) can provide additional environmental protection in harsh environments.

IP67 Rated—Integrated Environmental Backshell

PS Series connectors come standard with environmentally resistant backshells. Within the protection of the metal shell each wire is individually sealed and protected from moisture, dirt, and other chemical and airborne contaminants. PS Series connectors are suitable for applications requiring weather and wash-down environmental protection. Cable bundles are secured in place with built-in strain relief cable clamps to protect wire terminations from cable pulls and tension.

- Individual wire sealing design
- IP67 rated; able to be submerged to 3.3 ft (1m) for minimum of 30 minutes without damage
- O-ring seal between plug barrel and coupling ring
- 500 hour dynamic salt spray rating for standard (F) finish



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Quick & Simple Solder Termination

PS Series connectors can cut your termination workload in half. They come with contacts installed, aligned, and tinned and are ready for termination right out of the box. With only a basic soldering kit, anyone can quickly assemble and install these high-reliability solder connectors without the need for special tooling.

- Connectors are ready to terminate right out of the box
- No contact preparation is needed
- Basic soldering kit is all that is required
- Contacts accept a wide range of wire sizes

Pre-Tinned & Aligned Solder Cups
Solder cups are ready for soldering without any further preparation. They come pre-tinned and aligned for quick and easy installation. Heat resistant inserts cannot be damaged during the soldering process.



Various Accessory Options Available

When your connectors are not mated, keep them out of harm's way and sealed from all environmental hazards with a protective cover or stowage receptacle. Mounting brackets, gaskets, and sealing screws are also available to help maintain the environmental integrity of your enclosure.

- Mounting plate with sealing screws
- Protective covers
- Mounting gasket
- Stowage receptacle



Features & Benefits

Plugs

- Straight w/ backshell
- 90° w/ backshell

Receptacles

- Wall mount w/ backshell
- Box mount
- Cable mount w/ backshell
- Thru-Bulkhead

Backshells

- Environmental with individual wire seals
- Built-in strain relief cable clamp

Contacts

- Copper alloy, silver plated
- Contact sizes #0, #4, #8, #12, #16
- Minimum of 250 coupling cycles
- Wire gauges 0–22 AWG
- 52 max contacts (size #16)
- Thermocouple contacts available

Inserts

- Heat and fluid resistant
- 126 insert arrangements
- 5 different rotations

Accessories

- Protective cover with sash chain
- Stowage receptacle
- Mounting bracket with sealing screws
- Mounting gasket and cable bushing

Material

- Aluminum

Finishes

- Standard finish with 500 hr salt spray rating
- RoHS compliant finishes available

Termination

- Solder terminated, pre-tinned and aligned solder cups

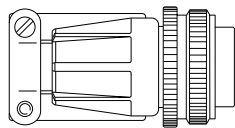
Coupling

- A-Threads, single start, 4 turns to couple
- Lockwire holes on coupling ring

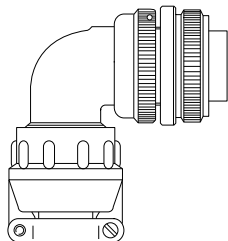
Component Overview

PS Series • High-Performance Solder Connectors

Plugs

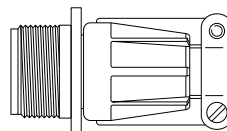


Straight Plug
p. C-23

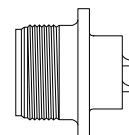


90° Plug
p. C-24

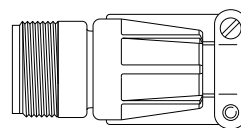
Receptacles



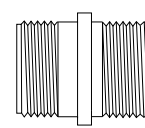
Wall Mount
p. C-25



Box Mount
p. C-26

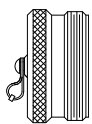


Cable Mount
p. C-27

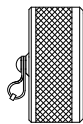


Thru-Bulkhead
p. C-28

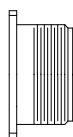
Covers



Plug Cover
p. C-29

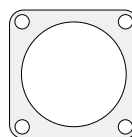


Recept. Cover
p. C-29

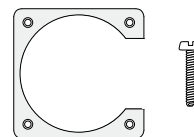


Storage Receptacle
p. C-30

Mounting

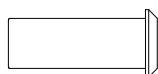


Mounting Gasket
p. C-31



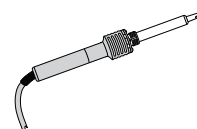
Mounting Bracket & Screws
p. C-32

Accessories



Cable Bushing
p. C-33

Tools



Soldering Station Kit
p. A-25

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95% OF CONNECTOR DAMAGE CAN BE PREVENTED WITH A PROTECTIVE COVER.

They'll even protect it from George,
whose hands tends to be less than
gentle with the equipment.



MILNEC
INTERCONNECT SYSTEMS

Maintain Your System Integrity

Maintain your system integrity by protecting the connectors with covers when they are not in use. Moisture, sand, dirt, and impact can all be kept away from your connectors with protective covers. Covers also ensure reliable mating by protecting the coupling mechanism.

Our high-grade aluminum alloy protective covers have CRES steel sash chains tested to withstand 25 lbs (11 kg) of tensile strength, ensuring covers don't get misplaced or broken off by careful system operators like George—even when his bowling team lost the game the night before.

Series Specifications

PS Series • High-Performance Solder Connectors

Performance Specifications

Built to meet or exceed MIL-C-5015 specifications
Guaranteed fully compatible and interchangeable with respect to physical and performance characteristics with all existing MIL-C-5015 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 connector air leakage rate shall not exceed 1 inch³/hr (4.55 x10⁻³ cm³/sec) at 30 psi (2.11 kg/cm²) pressure differential

Salt Spray Rating

See Materials & Finishes, p. C-11

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

Threaded (A-Threads), single-start, 4 turns to couple

Coupling Torque

Engagement & Disengagement Force (max / min)
Shell Size 10: 2.21 ft-lb_f (3.0 N-m) / .11 ft-lb_f (.15 N-m)
Shell Size 12: 2.07 ft-lb_f (2.8 N-m) / .17 ft-lb_f (.23 N-m)
Shell Size 14: 4.35 ft-lb_f (5.9 N-m) / .26 ft-lb_f (.35 N-m)
Shell Size 16: 5.16 ft-lb_f (7.0 N-m) / .34 ft-lb_f (.46 N-m)
Shell Size 18: 5.90 ft-lb_f (8.0 N-m) / .43 ft-lb_f (.58 N-m)
Shell Size 20: 6.64 ft-lb_f (9.0 N-m) / .52 ft-lb_f (.70 N-m)
Shell Size 22: 7.82 ft-lb_f (10.6 N-m) / .59 ft-lb_f (.80 N-m)
Shell Size 24: 9.51 ft-lb_f (12.9 N-m) / .59 ft-lb_f (.80 N-m)
Shell Size 28: 12.32 ft-lb_f (16.7 N-m) / .68 ft-lb_f (.92 N-m)
Shell Size 32: 13.35 ft-lb_f (18.1 N-m) / .75 ft-lb_f (1.02 N-m)
Shell Size 36: 17.63 ft-lb_f (23.9 N-m) / .77 ft-lb_f (1.05 N-m)

Polarization

Single master key and keyway on top position of shell

Insert Arrangements

126 standard, custom inserts available

Insert Rotations

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

Endurance Characteristics

Coupling Cycles

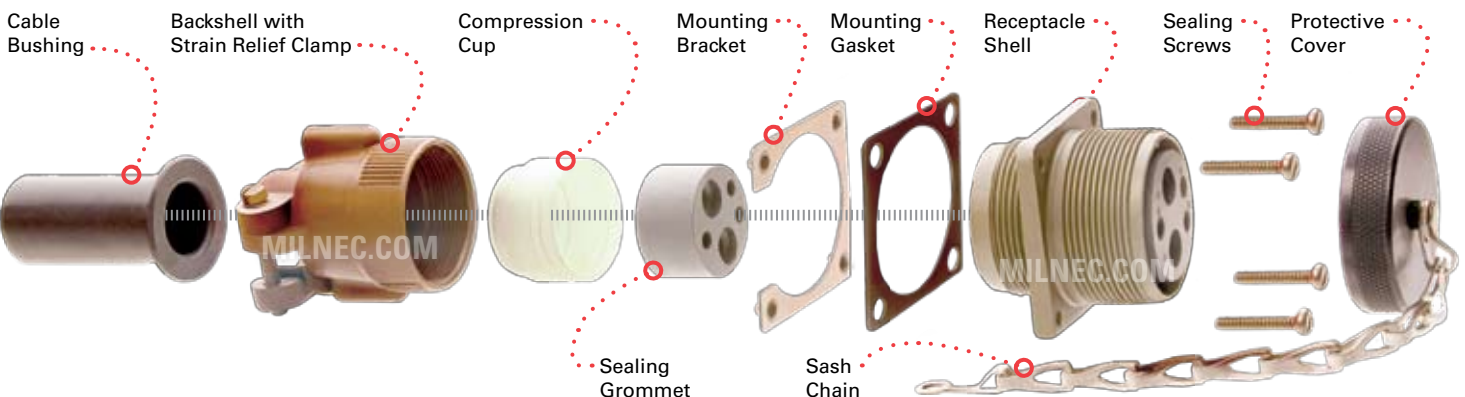
250 coupling cycles (minimum)

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



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Material Characteristics

Shell

Aluminum, solid, one piece, seamless construction

Shell Plating

Standard (F) finish is electrically conductive cadmium plate finish with an olive drab chromate after-treat for additional corrosion resistance
(See p. C-11 for all available finishes)

Shell Conductivity

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

Insert

Resilient polychlorophrene (neoprene)
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

Compression Cup

Plastic

Sealing Grommet

Neoprene

O-Ring Seal

Neoprene or silicone

Mounting Gasket

Neoprene or silicone

Mounting Bracket

Aluminum alloy with SST locking nuts

Sealing Screws

SST steel with silicone O-rings

Cable Bushing

Neoprene

Contact Characteristics

Contact Design

Solder style, permanently bonded to insert
Pre-tinned solder cups and solder wells standard

Contact Sizes

#0, #4, #8, #12, #16

Contacts

Copper alloy

Contact Plating

Silver alloy plate, 100 µinches (2.54 µm) minimum

Max Number of Contacts

1 to 52 standard, custom inserts available

Max Contact Resistance

6 milliohm maximum resistance

Potential Voltage Drop

<50 millivolt maximum drop (initial)

Contact Retention

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

Electrical Characteristics

Current Rating

150 amps (test current) at 68°F (20°C)

Max Operating Voltage

3,000 VAC (RMS) at sea level

Insulation Resistance

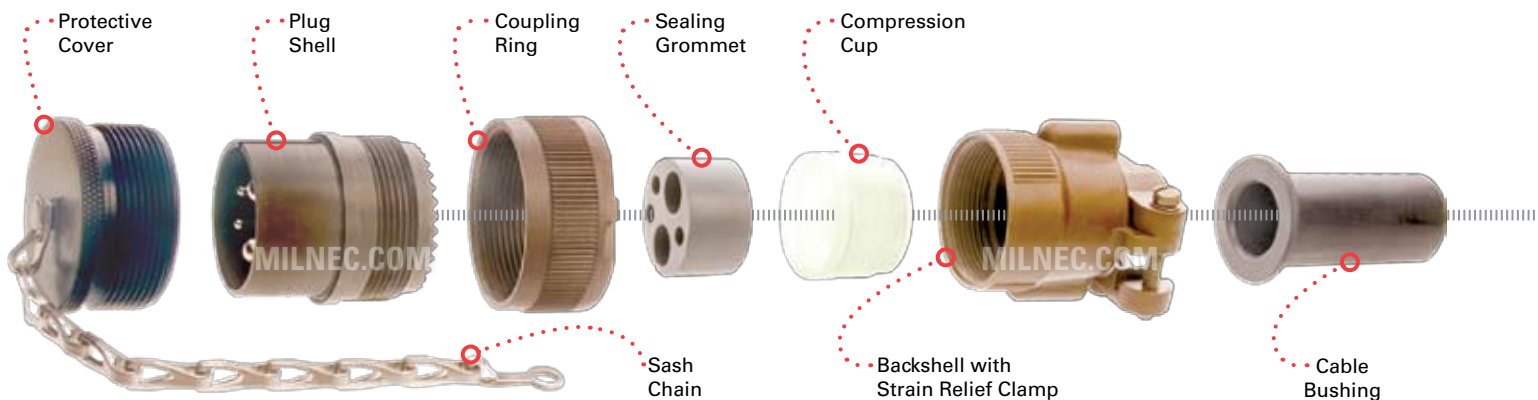
>5,000 megohms at 77°F (25°C)

Wire Size

0 to 22 (AWG)

Wire Sealing Range

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



Contact Specifications

PS Series • High-Performance Solder Connectors

Wire & Solder Dimensions

Contact Size	Wire Range		Potential Drop (Millivolts)	Max Contact Resistance (Milliohm)	Solder Well Depth	Solder Well Inside Diameter	Solder Well Outside Diameter	Contact Retention Axial Load Pounds (Newtons)	Separation Force Min Pounds (Newtons)
	AWG	Dia							
#16	16, 18, 20, 22	.025–.050 (.64–1.29)	<50	6	.250 (6.4)	.078 (2.0)	.103 (2.6)	10 (44)	.25 (1)
#12	12, 14	.064–.080 (1.62–2.05)	<42	3	.375 (9.5)	.116 (2.9)	.146 (3.7)	15 (67)	.50 (2)
#8	8, 10	.10–.12 (2.58–3.26)	<26	1	.500 (12.7)	.209 (5.3)	.256 (6.5)	20 (89)	.75 (3)
#4	4, 6	.16–.20 (4.11–5.18)	<23	.5	.625 (15.9)	.332 (8.4)	.394 (10.0)	20 (89)	1.00 (4)
#0	0, 1, 2	.25–.32 (6.54–8.25)	<21	.2	.625 (15.9)	.469 (11.9)	.547 (13.9)	25 (111)	2.00 (9)

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. Dimensions are in inches (mm) unless otherwise noted.

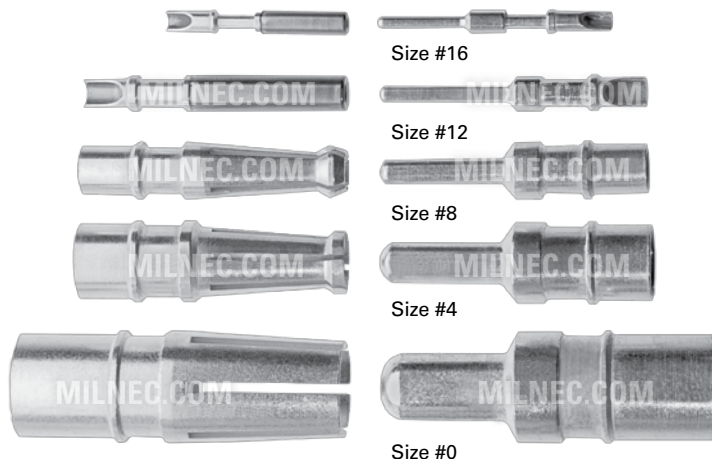
Current Rating By Contact Size & Wire Size

Wire Size (AWG)	Contact Size				
	#16	#12	#8	#4	#0
22	5A				
20	7.5A				
18	10A				
16	13A				
14		17A			
12		23A			
10			33A		
8			46A		
6				60A	
4				80A	
2					100A
1					125A
0					150A

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.

PS Series Contacts

Below are the PS Series solder contacts shown in actual size. This illustration can help determine which size contact will best fit a wire if you do not know the wire gauge being used.



Recommended Insulation Strip Length

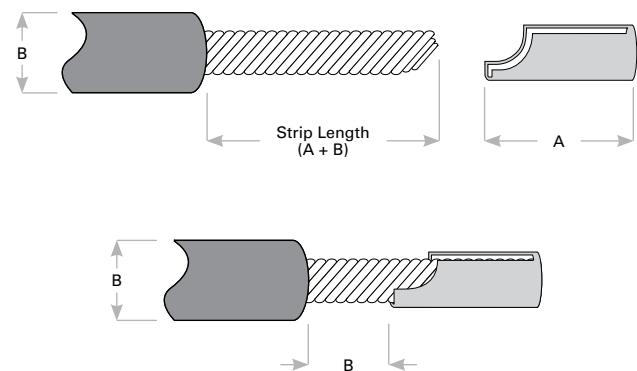
The recommended insulation strip length found in the table below can be used for standard insulated wire. For heavy jacketed wire, insulation strip length can be quickly and easily calculated by adding the contact solder well depth (A) to the wire's outside insulation diameter (B). The conductor should 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
#16	.200 (5.1)	.250 (6.4)
#12	.245 (6.2)	.375 (9.5)
#8	.350 (8.9)	.500 (12.7)
#4	.500 (12.7)	.625 (15.9)
#0	.575 (14.6)	.625 (15.9)

Dimensions are in inches (mm).



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Contact Derating Specifications

Service Rating	Max Operating Voltage at Sea Level		Nominal Distance in Inches (mm)		Mechanical Spacing Nominal	Standard Sea Level Conditions		Pressure Altitude 50,000 ft		Pressure Altitude 70,000 ft	
	AC (RMS)	DC	Airspace	Creepage		Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	200	250	.0312 (.8)	.063 (1.6)	—	1,400	1,000	500	400	325	260
A	500	700	.063 (1.6)	.125 (3.2)	.063 (1.6)	2,800	2,000	800	600	450	360
D	900	1,250	.125 (3.2)	.188 (4.8)	.125 (3.2)	3,600	2,800	900	675	500	400
E	1,250	1,750	.188 (4.8)	.250 (6.4)	.188 (4.8)	4,500	3,500	1,000	750	550	440
B	1,750	2,450	.250 (6.4)	.313 (8.0)	.250 (6.4)	5,700	4,500	1,100	825	600	480
C	3,000	4,200	.313 (8.0)	1.000 (25.4)	.313 (8.0)	8,500	7,000	1,300	975	700	560

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).

Wire Sealing Range

Contact Size	Wire Size (AWG)	Insulation Outside Diameter Range	
		Min	Max
#16	16, 18, 20, 22	.064 (1.63)	.130 (3.30)
#12	12, 14	.114 (2.90)	.170 (4.32)
#8	8, 10	.164 (4.17)	.255 (6.48)
#4	4, 6	.275 (6.98)	.370 (9.40)
#0	0, 1, 2	.415 (10.54)	.550 (13.97)

Dimensions are in inches (mm) unless otherwise noted.

MILNEC SHIPS CONNECTORS WORLDWIDE IN ONE WEEK



World Class Service, Worldwide

We know your project can't wait, so we provide tailor-made flexibility with off-the-shelf lead times. We employ the latest assembly and quality-control processes to build and test every connector we ship.

- Standard connector kits ship in just one week
- No order minimums, credit cards accepted
- Average ship time is 7 days
- Expedited builds available for critical requirements

Materials & Finishes

PS Series • High-Performance Solder Connectors

PS 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 PS 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 PS Series, including RoHS compliant finishes for environmentally friendly designs. ■

Standard PS Series Materials & Finishes

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

Special PS Series Materials & Finishes*

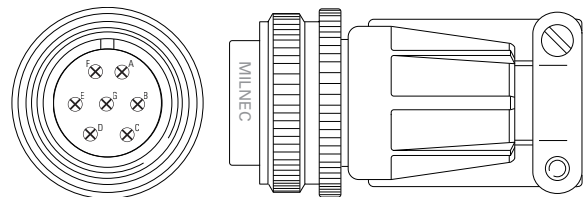
Finish Code	Finish	Electrically Conductive	Pre-Tinned Solder Cups	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
B	Hardcoat Anodize		✓		Grey to Black	Aluminum	336 hrs	-67° to +257°F (-55° to +125°C)
BA				✓				
N	Electroless Nickel	✓	✓		Bright Metal	Aluminum	48 hrs	-67° to +257°F (-55° to +125°C)
NA				✓				
C	Zinc Cobalt		✓		Black	Aluminum	125 hrs	-67° to +257° (-55° to +125°C)
CA				✓				
CB		✓	✓					
CC				✓				
T	Hard Anodic		✓		Grey	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
TA				✓				

* 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 PS 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.

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RUGGEDIZED CONNECTORS FOR HARSH INDUSTRIAL APPLICATIONS



Heavy Duty Reliability Without Compromise

Our connectors are built to withstand the harshest environments and the toughest abuse. Components are built from heavy duty aerospace-grade aluminum for durability and light weight. A wide variety of protective and sealing accessories provide complete IP67 environmental protection. Let Milnec handle the heavy lifting!



How to Build Your PS 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 a PS Series connector that designates, 1) Milnec PS Series wall mount receptacle, 2) olive drab cadmium finish over aluminum, 3) 16S-1 insert arrangement, 4) socket contacts, 5) normal rotation, and 6) integrated kit including protective cover, mounting gasket, and cable bushing. ■

PS00 F 16S-1 S N - 02

1 2 3 4 5 6

1 Series Shell Style

Standard Environmental Shells

PS06 Straight plug w/ backshell, p. C-23

PS08 90° plug w/ backshell, p. C-24

.....

PS00 Wall mount receptacle w/ backshell, p. C-25

PS01 Cable mount receptacle w/ backshell, p. C-27

PS02 Box mount receptacle, p. C-26

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

For complete materials and finishes options, including RoHS, see p. C-11.

3 Shell Size & Insert Arrangement

See Insert Arrangement Selection table on p. C-14

4 Contact Style

Standard Solder Contacts

P Pin

S Socket

Thermocouple Solder Contacts*

Connectors may be ordered with the following size #16 and #12 thermocouple contact options: alumel, chromel, iron, and constantan.

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

5 Insert Rotations

Normal Rotation

N Normal rotation

Alternate Rotations

W, X, Y, Z Alternate rotation

See Insert Arrangement Selection table on p. C-14
(not all rotations are available for every arrangement)

6 Optional Accessory Kit (Omit for None)

01 For Plugs:

Protective cover, p. C-29 +

Cable bushing, p. C-33

02 For Receptacles:

Protective cover, p. C-29 +

Mounting gasket, p. C-31 +

Cable bushing, p. C-33

03 For Receptacles:

Protective cover, p. C-29 +

Mounting gasket, p. C-31 +

Cable bushing, p. C-33 +

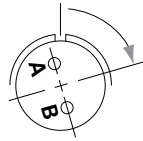
Mounting bracket, p. C-32

with (4x) sealing screws

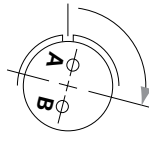
Selecting Your Insert Arrangement & Rotation

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.

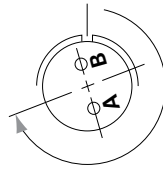
Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements. ■



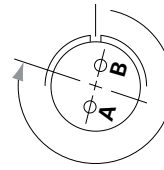
Position W



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			
		#16	#12	#8	#4	#0		W	X	Y	Z
10SL-3	3	3					A				
10SL-4	2	2					A	63°			
12-5	1		1				A				
12S-3	2	2					A	70°	145°	215°	290°
14S-1	3	3					A				
14S-2	4	4					Inst.		120°	240°	
14S-4	1	1					D				
14S-5	5	5					Inst.		110°		
14S-6	6	6					Inst.				
14S-7	3	3					A	90°	180°	270°	
14S-9	2	2					A	70°	145°	215°	290°
16-7	3	2		1			A	80°	110°	250°	280°
16-9	4	2	2				A	35°	110°	250°	325°
16-10	3		3				A	90°	180°	270°	
16-11	2		2				A	35°	110°	250°	325°
16-12	1				1		A				
16S-1	7	7					A	80°			280°
16S-4	2	2					D	35°	110°	250°	325°
16S-5	3	3					A	70°	145°	215°	290°
16S-6	3	3					A	90°	180°	270°	
16S-8	5	5					A		170°	265°	
18-1	10	10					A/Inst.	70°	145°	215°	290°
18-3	2		2				D	35°	110°	250°	325°
18-4	4	4					D	35°	110°	250°	325°
18-5	3	1	2				D	80°	110°	250°	280°
18-8	8	7	1				A	70°			290°
18-9	7	5	2				Inst.	80°	110°	250°	280°
18-10	4		4				A		120°	240°	
18-11	5		5				A		170°	265°	
18-12	6	6					A	80°			280°
18-13	4		3	1			A	80°	110°	250°	280°
18-16	1		1				C				

* Option is unavailable if left blank.

(Continued on next page)

Insert Arrangements & Rotations

PS Series • High-Performance Solder Connectors

Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
18-19	10	10					A				
18-22	3	3					0	70°	145°	215°	290°
20-2	1					1	D				
20-3	3		3				D	70°	145°	215°	290°
20-4	4		4				D	45°	110°	250°	
20-7	8	8					D/A	80°	110°	250°	280°
20-8	6	4		2			Inst.	80°	110°	250°	280°
20-11	13	13					Inst.				
20-14	5		3	2			A	80°	110°	250°	280°
20-15	7		7				A	80°			280°
20-16	9	7	2				A	80°	110°	250°	280°
20-17	6	1	5				A	90°	180°	270°	
20-18	9	6	3				A	35°	110°	250°	325°
20-19	3			3			A	90°	180°	270°	
20-22	6	3		3			A	80°	110°	250°	280°
20-23	2			2			A	35°	110°	250°	325°
20-24	4	2		2			A	35°	110°	250°	325°
20-27	14	14					A	35°	110°	250°	325°
20-29	17	17					A	80°			280°
20-33	11	11					A				
22-1	2			2			D	35°	110°	250°	325°
22-2	3			3			D	70°	145°	215°	290°
22-5	6	4	2				D	35°	110°	250°	325°
22-6	3	1		2			D	80°	110°	250°	280°
22-7	1					1	E				
22-8	2		2				E	35°	110°	215°	325°
22-9	3		3				E	70°	145°	250°	290°
22-11	2	2					B	35°	110°	250°	325°
22-12	5	3		2			D	80°	110°	250°	280°
22-13	5	1	4				D/A	35°	110°	250°	325°
22-14	19	19					A	80°	110°	250°	280°
22-15	6	1	5				E/A	80°	110°	250°	280°
22-18	8	8					D/A	80°	110°	250°	280°
22-19	14	14					A	80°	110°	250°	280°
22-20	9	9					A	35°	110°	250°	325°
22-21	3	2				1	A	80°	110°	250°	280°
22-22	4			4			A		110°	250°	
22-23	8		8				D/A	35°		250°	
22-28	7		7				A	80°			280°
22-33	7	7					D/A	80°	110°	250°	280°
24-2	7		7				D	80°			280°
24-5	16	16					A	80°	110°	250°	280°
24-6	8		8				D/A	80°	110°	250°	280°
24-7	16	14	2				A	80°	110°	250°	280°
24-9	2				2		A	35°	110°	250°	325°
24-10	7			7			A	80°			280°
24-11	9		6	3			A	35°	110°	250°	325°

* Option is unavailable if left blank.

(Continued on next page)

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Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
24-12	5		3		2		A	80°	110°	250°	280°
24-20	11	9	2				D	80°	110°	250°	280°
24-21	10	9		1			D	80°	110°	250°	280°
24-22	4			4			D	45°	110°	250°	
24-27	7	7					E	80°			280°
24-28	24	24					Inst.	80°	110°	250°	280°
28-1	9		6	3			D/A	80°	110°	250°	280°
28-2	14	12	2				D	35°	110°	250°	325°
28-3	3			3			E	70°	145°	215°	290°
28-5	5	2	1		2		D	35°	110°	250°	325°
28-6	3				3		D	70°	145°	215°	290°
28-7	2				2		D	35°	110°	250°	325°
28-8	12	10	2				E/D/A	80°	110°	250°	280°
28-9	12	6	6				D	80°	110°	250°	280°
28-10	7		3	2	2		D/A	80°	110°	250°	280°
28-11	22	18	4				A	80°	110°	250°	280°
28-12	26	26					A	90°	180°	270°	
28-15	35	35					A	80°	110°	250°	280°
28-16	20	20					A	80°	110°	250°	280°
28-17	15	15					B/D/A	80°	110°	250°	280°
28-18	12	12					C/D/A/Inst.	70°	145°	215°	290°
28-19	10	6	4				B/D/A	80°	110°	250°	280°
28-20	14	4	10				A	80°	110°	250°	280°
28-21	37	37					A	80°	110°	250°	280°
28-22	6	3			3		D	70°	145°	250°	290°
32-1	5		3			2	E/D	80°	110°	250°	280°
32-2	5	2			3		E	70°	145°	215°	290°
32-3	9	4	2		2	1	D	80°	110°	250°	280°
32-5	2					2	D	35°	110°	250°	325°
32-6	23	16	2	3	2		A	80°	110°	250°	280°
32-7	35	28	7				Inst./A	80°	125°	235°	280°
32-8	30	24	6				A	80°	125°	235°	280°
32-9	14	12			2		D	80°	110°	250°	280°
32-13	23	18	5				D	80°	110°	250°	280°
32-15	8		6			2	D	35°	110°	250°	280°
32-17	4				4		D	45°	110°	250°	
36-3	6		3			3	D	70°	145°	215°	290°
36-4	3					3	D/A	70°	145°	215°	290°
36-5	4					4	A		120°	240°	
36-6	6				4	2	A	35°	110°	250°	325°
36-7	47	40	7				A	80°	110°	250°	280°
36-8	47	46	1				A	80°	110°	250°	280°
36-9	31	14	14	2	1		A	80°	125°	235°	280°
36-10	48	48					A	80°	125°	235°	280°
36-14	16	6	5	5			D	90°	180°	270°	
36-15	35	35					D/A	60°	125°	245°	305°
36-52	52	52					A				

* Option is unavailable if left blank.

Insert Arrangement Drawings

PS Series • High-Performance Solder Connectors

Arrangement
Service Rating
Number of Contacts



10SL-3
A
3 x #16



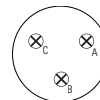
10SL-4
A
2 x #16



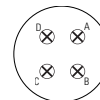
12-5
A
1 x #12



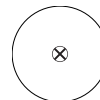
12S-3
A
2 x #16



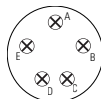
14S-1
A
3 x #16



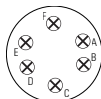
14S-2
Inst.
4 x #16



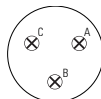
14S-4
D
1 x #16



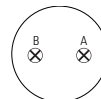
14S-5
Inst.
5 x #16



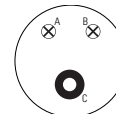
14S-6
Inst.
6 x #16



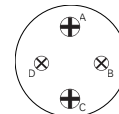
14S-7
A
3 x #16



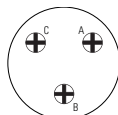
14S-9
A
2 x #16



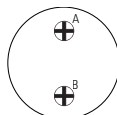
16-7
A
1 x #8
2 x #16



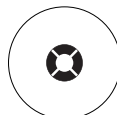
16-9
A
2 x #12
2 x #16



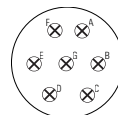
16-10
A
3 x #12



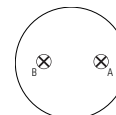
16-11
A
2 x #12



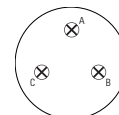
16-12
A
1 x #4



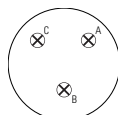
16S-1
A
7 x #16



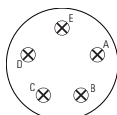
16S-4
D
2 x #16



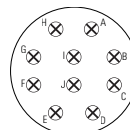
16S-5
A
3 x #16



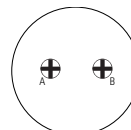
16S-6
A
3 x #16



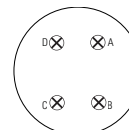
16S-8
A
5 x #16



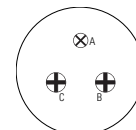
18-1
B,C,F,G=A; Bal.=Inst.
10 x #16



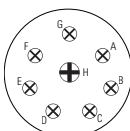
18-3
D
2 x #12



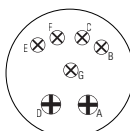
18-4
D
4 x #16



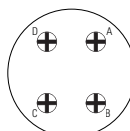
18-5
D
2 x #12
1 x #16



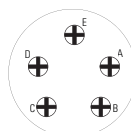
18-8
A
1 x #12
7 x #16



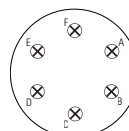
18-9
Inst.
2 x #12
5 x #16



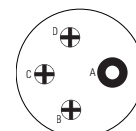
18-10
A
4 x #12



18-11
A
5 x #12



18-12
A
6 x #16



18-13
A
1 x #8
3 x #12

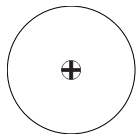
Contact Legend



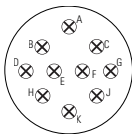
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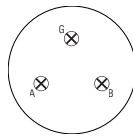
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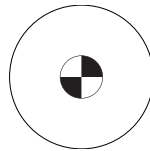
18-16
C
1 x #12



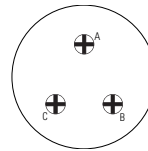
18-19
A
10 x #16



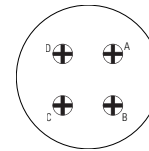
18-22
D
3 x #16



20-2
D
1 x #0

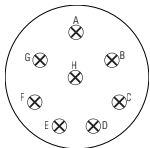


20-3
D
3 x #12

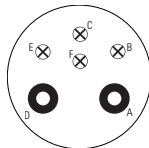


20-4
D
4 x #12

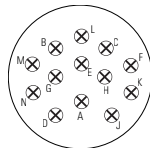
Arrangement
Service Rating
Number of Contacts



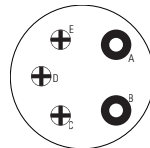
20-7
A, B, H, G=D; C, D, E, F=A
8 x #16



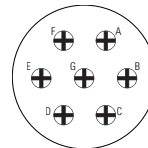
20-8
Inst.
2 x #8; 4 x #16



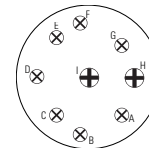
20-11
Inst.
13 x #16



20-14
A
2 x #8
3 x #12

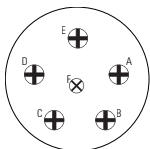


20-15
A
7 x #12

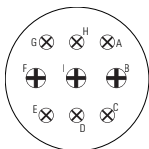


20-16
A
2 x #12
7 x #16

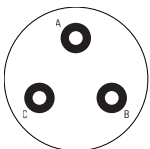
Arrangement
Service Rating
Number of Contacts



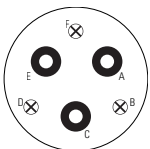
20-17
A
5 x #12
1 x #16



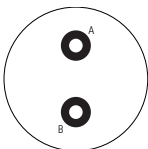
20-18
A
3 x #12
6 x #16



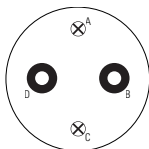
20-19
A
3 x #8



20-22
A
3 x #8
3 x #16

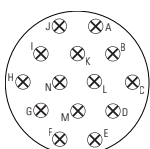


20-23
A
2 x #8

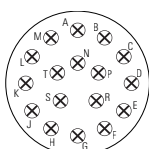


20-24
A
2 x #8
2 x #16

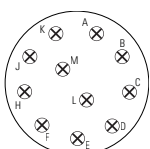
Arrangement
Service Rating
Number of Contacts



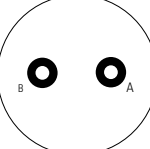
20-27
A
14 x #16



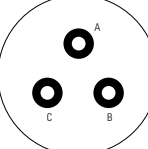
20-29
A
17 x #16



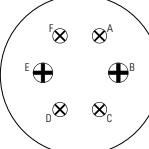
20-33
A
11 x #16



22-1
D
2 x #8



22-2
D
3 x #8



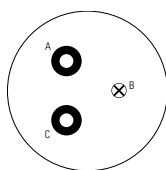
22-5
D
2 x #12
4 x #16

Arrangement
Service Rating
Number of Contacts

Insert Arrangement Drawings

PS Series • High-Performance Solder Connectors

(Continued from previous page)

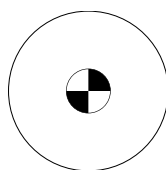


22-6

D

2 x #8

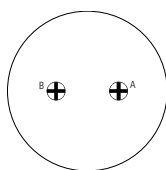
1 x #16



22-7

E

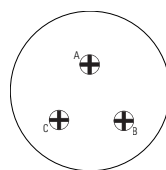
1 x #0



22-8

E

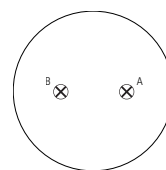
2 x #12



22-9

E

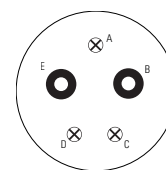
3 x #12



22-11

B

2 x #16

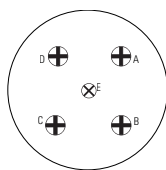


22-12

D

2 x #8

3 x #16

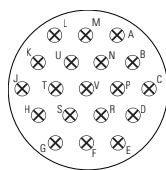


22-13

E=D; A,B,C,D=A

4 x #12

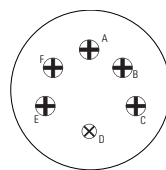
1 x #16



22-14

A

19 x #16

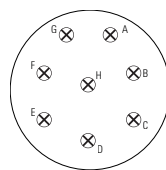


22-15

D=E; A,B,C,E,F=A

5 x #12

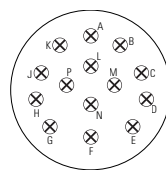
1 x #16



22-18

A,B,F,G,H=D; C,D,E=A

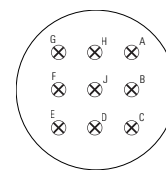
8 x #16



22-19

A

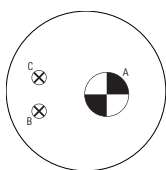
14 x #16



22-20

A

9 x #16

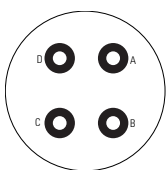


22-21

A

1 x #0

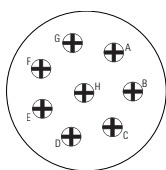
2 x #16



22-22

A

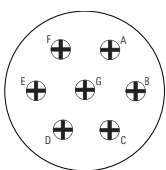
4 x #8



22-23

H=D; Bal.=A

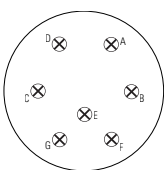
8 x #12



22-28

A

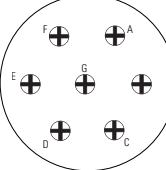
7 x #12



22-33

A,B,C,D=D; E,F,G=A

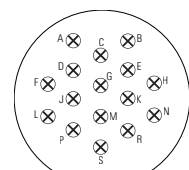
7 x #16



24-2

D

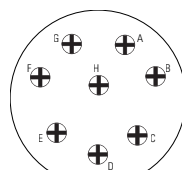
7 x #12



24-5

A

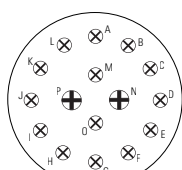
16 x #16



24-6

A,G,H=D; Bal.=A

8 x #12

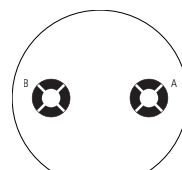


24-7

A

2 x #12

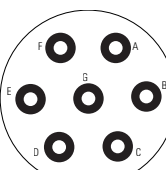
14 x #16



24-9

A

2 x #4



24-10

A

7 x #8

Arrangement
Service Rating
Number of Contacts

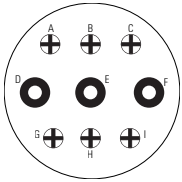
Arrangement
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Arrangement
Service Rating
Number of Contacts

Arrangement
Service Rating
Number of Contacts

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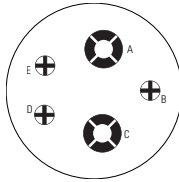


24-11

A

3 x #8

6 x #12

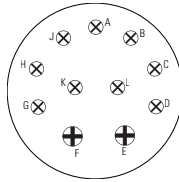


24-12

A

2 x #4

3 x #12

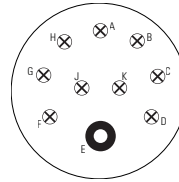


24-20

D

2 x #12

9 x #16

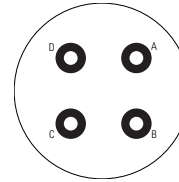


24-21

D

1 x #8

9 x #16

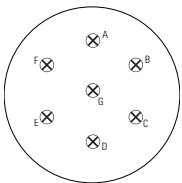


24-22

D

4 x #8

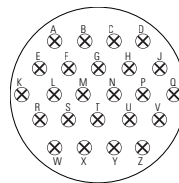
Arrangement
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24-27

E

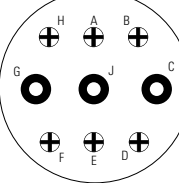
7 x #16



24-28

Inst.

24 x #16

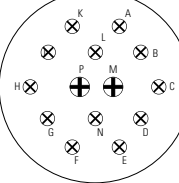


28-1

A,J,E=D; Bal.=A

3 x #8

6 x #12

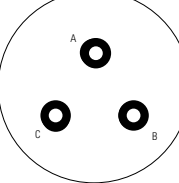


28-2

D

2 x #12

12 x #16

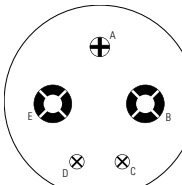


28-3

E

3 x #8

Arrangement
Service Rating
Number of Contacts



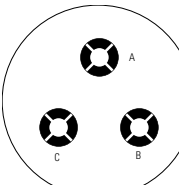
28-5

D

2 x #4

1 x #12

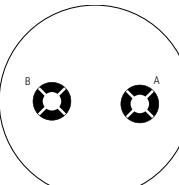
2 x #16



28-6

D

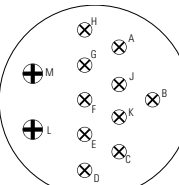
3 x #4



28-7

D

2 x #4

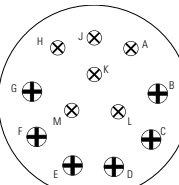


28-8

L,M=E; B=D; Bal.=A

2 x #12

10 x #16



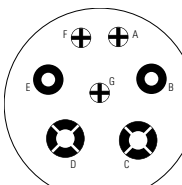
28-9

D

6 x #12

6 x #16

Arrangement
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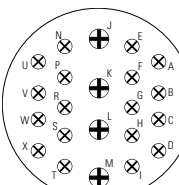
28-10

G=D; Bal.=A

2 x #4

2 x #8

3 x #12

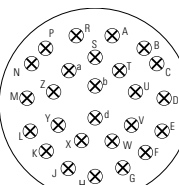


28-11

A

4 x #12

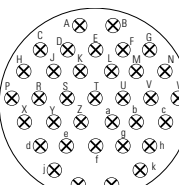
18 x #16



28-12

A

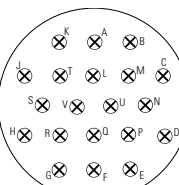
26 x #16



28-15

A

35 x #16



28-16

A

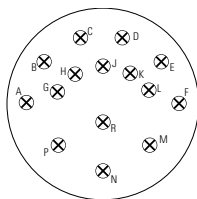
20 x #16

Arrangement
Service Rating
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Insert Arrangement Drawings

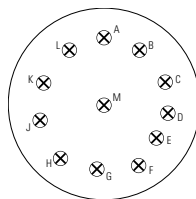
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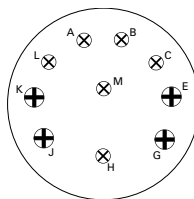
28-17

R=B; M,N,P=D; A to L=A
15 x #16



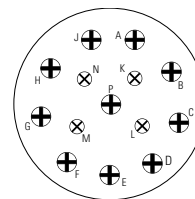
28-18

M=C; G,H,J,K,L=D;
A,B=A; Bal.=Inst.
12 x #16



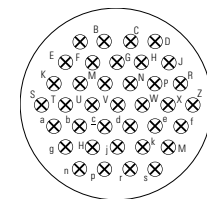
28-19

H,M=B; A,B=D; Bal.=A.
4 x #12
6 x #16



28-20

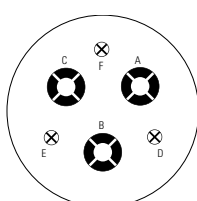
A
10 x #12
4 x #16



28-21

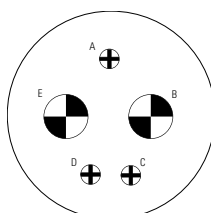
A
37 x #16

Arrangement
Service Rating
Number of Contacts



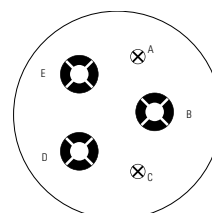
28-22

D
3 x #4
3 x #16



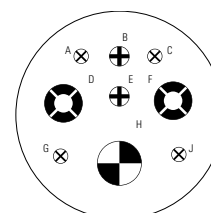
32-1

A=E; B,C,D,E=D
2 x #0
3 x #12



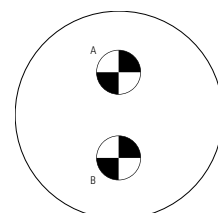
32-2

E
3 x #4
2 x #16



32-3

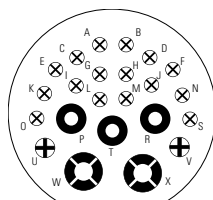
D
1 x #0; 2 x #4
2 x #12; 4 x #16



32-5

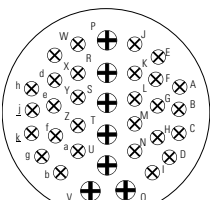
D
2 x #0

Arrangement
Service Rating
Number of Contacts



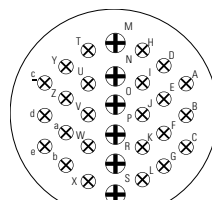
32-6

A
2 x #4; 3 x #8
2 x #12; 16 x #16



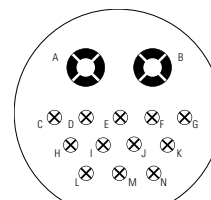
32-7

A,B,H,J=Inst.; Bal.=A
7 x #12
28 x #16



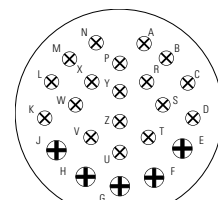
32-8

A
6 x #12
24 x #16



32-9

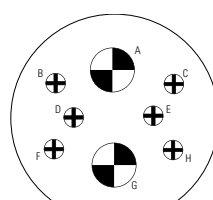
D
2 x #4
12 x #16



32-13

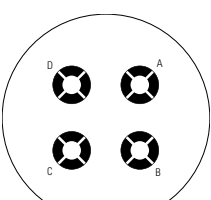
D
5 x #12
18 x #16

Arrangement
Service Rating
Number of Contacts



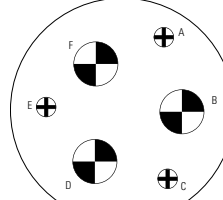
32-15

D
2 x #0
6 x #12



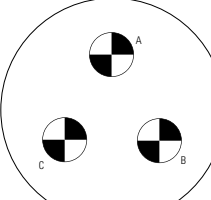
32-17

D
4 x #4



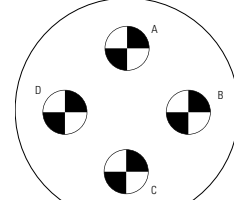
36-3

D
3 x #0
3 x #12



36-4

A=D; B,C=A
3 x #0



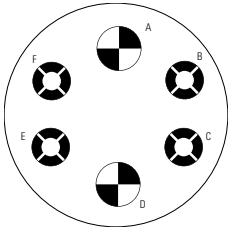
36-5

A
4 x #0

Arrangement
Service Rating
Number of Contacts

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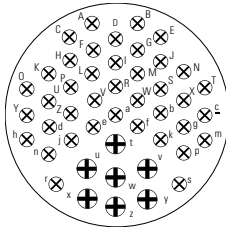


36-6

A

2 x #0

4 x #4

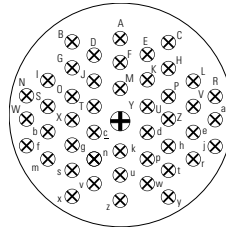


36-7

A

7 x #12

40 x #16

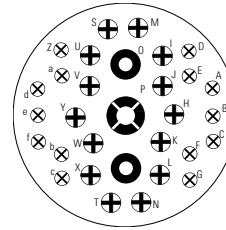


36-8

A

1 x #12

46 x #16



36-9

A

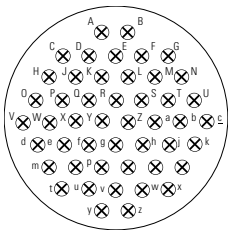
1 x #4; 2 x #8

14 x #12; 14 x #16

Arrangement

Service Rating

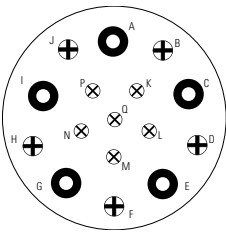
Number of Contacts



36-10

A

46 x #16

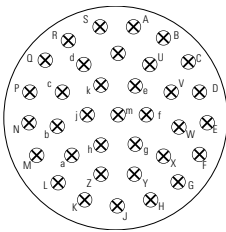


36-14

D

5 x #8; 5 x #12;

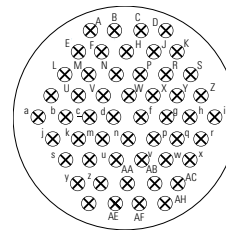
6 x #16



36-15

M=D; Bal.=A

35 x #16



36-52

A

52 x #16

Arrangement

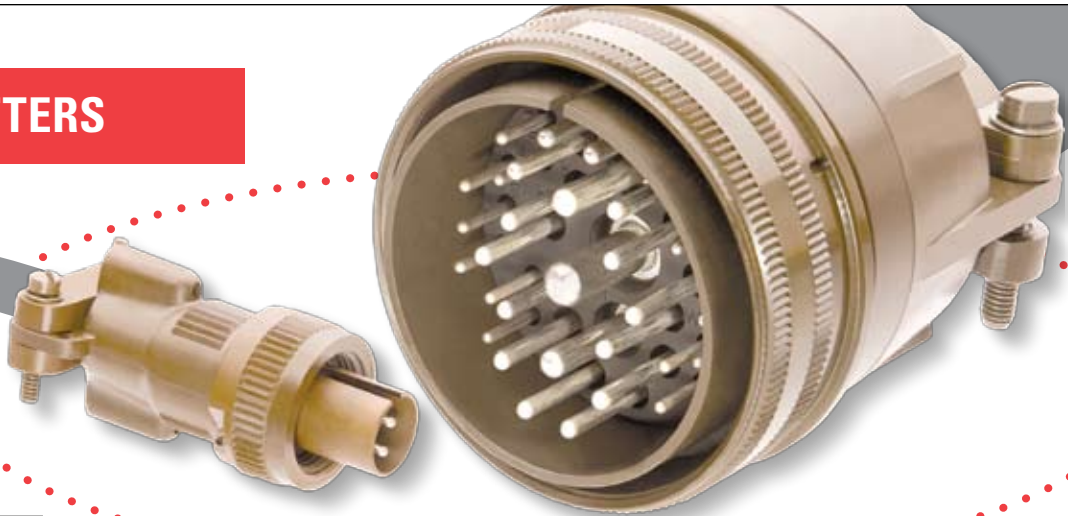
Service Rating

Number of Contacts

Contact Legend



SIZE MATTERS



Widest Selection of Shell Sizes

With a dozen shell sizes to choose from, and 126 insert arrangements, the PS Series of ruggedized solder connectors can meet any application's unique wiring requirements.

To show the full range of sizes available, we have shown above at 1:1 scale the PS Series plugs in the massive size 36 shell (right) and the size 10 for comparison.

Straight Plug

PS Series • High-Performance Solder Connectors



PS06 F 16S-1 P N - 01

- 1 **BASIC PART NUMBER**
PS06 Straight plug w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. C-14
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. C-14 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
01 Protective cover + cable bushing



Cable plug with integrated backshell

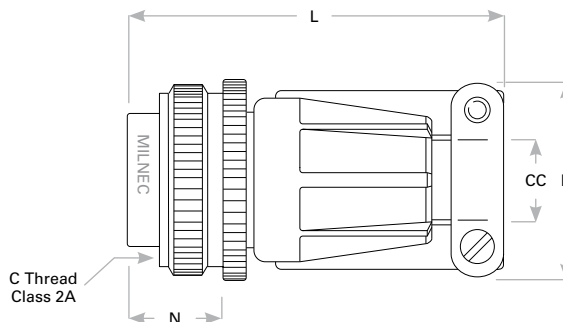
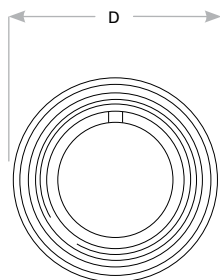
A cable plug with an integrated backshell provides all-in-one IP67 environmental protection, including moisture sealing and strain relief. When disconnected, the plug should be sealed with a protective cover to ensure high reliability.

Note: See part builder (p. C-13) for additional kit options.

Plug Dimensions

Shell Size	D	C Thread Class 2A	L	N	B	CC Cable Clearance
10SL	.946 (24.0)	.6250-24 UNEF	2.129 (54.1)	.531 (13.5)	.896 (22.8)	.281 (7.1)
12S	.995 (25.3)	.7500-20 UNEF	2.129 (54.1)	.531 (13.5)	.896 (22.8)	.281 (7.1)
14S	1.123 (28.5)	.8750-20 UNEF	2.201 (55.9)	.531 (13.5)	1.021 (25.9)	.406 (10.3)
16S	1.250 (31.8)	1.0000-20 UNEF	2.201 (55.9)	.531 (13.5)	1.151 (29.2)	.500 (12.7)
16	1.250 (31.8)	1.0000-20 UNEF	2.524 (64.1)	.719 (18.3)	1.151 (29.2)	.500 (12.7)
18	1.333 (33.9)	1.1250-18 UNEF	2.596 (65.9)	.719 (18.3)	1.242 (31.5)	.531 (13.5)
20	1.461 (37.1)	1.2500-18 UNEF	2.654 (67.4)	.719 (18.3)	1.499 (38.1)	.656 (16.7)
22	1.588 (40.3)	1.3750-18 UNEF	2.654 (67.4)	.719 (18.3)	1.499 (38.1)	.740 (18.8)
24	1.715 (43.6)	1.5000-18 UNEF	2.885 (73.3)	.719 (18.3)	1.781 (45.2)	.781 (19.8)
28	1.968 (50.0)	1.7500-18 UNS	2.885 (73.3)	.719 (18.3)	1.781 (45.2)	.922 (23.4)
32	2.209 (56.1)	2.0000-18 UNS	2.943 (74.8)	.719 (18.3)	2.087 (53.0)	1.156 (29.4)
36	2.463 (62.6)	2.2500-16 UN	2.943 (74.8)	.719 (18.3)	2.281 (57.9)	1.250 (31.8)

Dimensions are in inches (mm).



Rev. 1301.1

PS08 F 20-29 S N - 01

- 1 **BASIC PART NUMBER**
PS08 90° plug w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. C-14
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. C-14 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
01 Protective cover + cable bushing

Note: See part builder (p. C-13) for additional kit options.

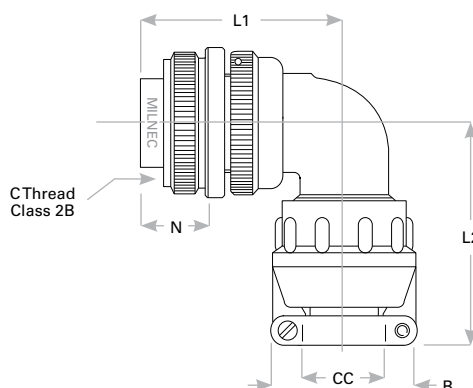
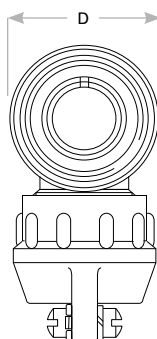
**Plugs for receptacles in confined spaces**

A 90° plug is recommended for connections in difficult locations. Angled plugs may also be used to provide simple cable management in high-density panels. An integrated backshell provides environmental sealing and strain relief. A protective cover is recommended when not in use.

Plug Dimensions

Shell Size	D	C Thread Class 2B	L ¹	L ²	N	B	CC Cable Clearance
10SL	.946 (24.0)	.6250-24 NEF	1.482 (37.6)	1.508 (38.3)	.531 (13.5)	.901 (22.9)	.311 (7.9)
12S	.995 (25.3)	.7500-20 UNEF	1.487 (37.8)	1.508 (38.3)	.531 (13.5)	.901 (22.9)	.311 (7.9)
14S	1.123 (28.5)	.8750-20 UNEF	1.551 (39.4)	1.570 (39.9)	.531 (13.5)	1.026 (26.1)	.437 (11.1)
16S	1.250 (31.8)	1.0000-20 UNEF	1.677 (42.3)	1.633 (41.5)	.531 (13.5)	1.119 (28.4)	.559 (14.2)
16	1.250 (31.8)	1.1000-20 UNEF	2.052 (52.1)	1.633 (41.5)	.719 (18.3)	1.119 (28.4)	.559 (14.2)
18	1.333 (33.9)	1.1250-18 UNEF	2.114 (53.7)	1.759 (44.7)	.719 (18.3)	1.229 (31.2)	.622 (15.8)
20	1.461 (37.1)	1.2500-18 UNEF	2.317 (58.9)	1.931 (49.0)	.719 (18.3)	1.479 (37.6)	.748 (19.0)
22	1.588 (40.3)	1.3750-18 UNEF	2.317 (58.9)	1.993 (50.6)	.719 (18.3)	1.479 (37.6)	.748 (19.0)
24	1.729 (43.9)	1.5000-18 UNEF	2.505 (63.6)	2.119 (53.8)	.719 (18.3)	1.666 (42.3)	.933 (23.7)
28	1.968 (50.0)	1.7500-18 UNS	2.505 (63.6)	2.181 (55.4)	.719 (18.3)	1.666 (42.3)	.933 (23.7)
32	2.0000-18NS	2.209 (56.1) UNS	2.739 (69.6)	2.570 (65.3)	.719 (18.3)	2.135 (54.2)	1.252 (31.8)
36	2.2500-16UN	2.463 (62.6) UN	2.864 (72.7)	2.695 (68.5)	.719 (18.3)	2.260 (57.4)	1.362 (34.6)

Dimensions are in inches (mm).



Rev. 1301.1

Wall Mount Receptacle

PS Series • High-Performance Solder Connectors



Panel mounting with all-in-one protection

Wall mount receptacles are standard receptacles with integrated backshells that provide environmental sealing and strain relief behind the panel. A mounting gasket is recommended to seal the mounting location.

PS00 F 16S-1 S N - 02

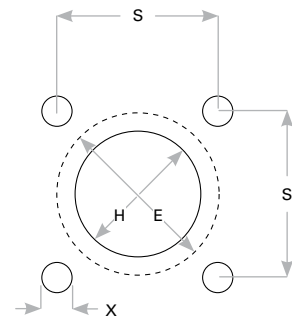
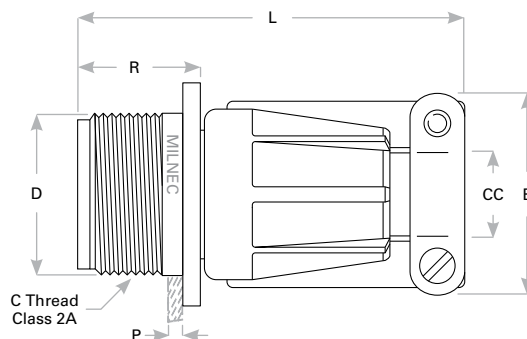
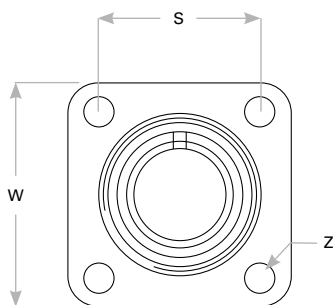
- 1 **BASIC PART NUMBER**
PS00 Wall mount recept. w/ integrated backshell
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. C-14
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. C-14 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + mounting gasket + cable bushing
03 02 kit + mounting bracket + sealing screws

Note: See part builder (p. C-13) for additional kit options.

Receptacle Dimensions

Size Shell	W	Z	C Thread Class 2A	L	R	D	B	CC Cable Clearance	P Max Rear Panel*	S	X	H Front Mount	E Rear Mount
10SL	1.000 (25.4)	.120 (3.0)	.6250-24 UNEF	2.129 (54.1)	.672 (17.1)	.625 (15.9)	.896 (22.8)	.281 (7.1)	.187 (4.8)	.719 (18.3)	.134 (3.4)	.646 (16.4)	.728 (18.5)
12S	1.094 (27.8)	.120 (3.0)	.7500-20UNEF	2.129 (54.1)	.672 (17.1)	.750 (19.1)	.896 (22.8)	.281 (7.1)	.187 (4.8)	.812 (20.6)	.134 (3.4)	.646 (16.4)	.854 (21.7)
14S	1.188 (30.2)	.120 (3.0)	.8750-20 UNEF	2.201 (55.9)	.672 (17.1)	.875 (22.2)	1.021 (25.9)	.406 (10.3)	.187 (4.8)	.906 (23.0)	.134 (3.4)	.776 (19.7)	.980 (24.9)
16S	1.281 (32.5)	.120 (3.0)	1.0000-20 UNEF	2.201 (55.9)	.672 (17.1)	1.000 (25.4)	1.151 (29.2)	.500 (12.7)	.187 (4.8)	.969 (24.6)	.134 (3.4)	.902 (22.9)	1.091 (27.7)
16	1.281 (32.5)	.120 (3.0)	1.0000-20 UNEF	2.524 (64.1)	.860 (21.8)	1.000 (25.4)	1.151 (29.2)	.500 (12.7)	.125 (3.2)	.969 (24.6)	.134 (3.4)	.902 (22.9)	1.091 (27.7)
18	1.375 (34.9)	.120 (3.0)	1.1250-18 UNEF	2.596 (65.9)	.891 (22.6)	1.125 (28.6)	1.242 (31.5)	.531 (13.5)	.125 (3.2)	1.063 (27.0)	.134 (3.4)	1.028 (26.1)	1.224 (31.1)
20	1.500 (38.1)	.120 (3.0)	1.2500-18 UNEF	2.654 (67.4)	.891 (22.6)	1.375 (34.9)	1.499 (38.1)	.656 (16.7)	.125 (3.2)	1.156 (29.4)	.134 (3.4)	1.161 (29.5)	1.358 (34.5)
22	1.625 (41.3)	.120 (3.0)	1.3750-18 UNEF	2.654 (67.4)	.891 (22.6)	1.500 (38.1)	1.499 (38.1)	.740 (18.8)	.125 (3.2)	1.250 (31.8)	.134 (3.4)	1.287 (32.7)	1.488 (37.8)
24	1.750 (44.5)	.147 (3.7)	1.5000-18 UNEF	2.885 (73.2)	.953 (24.2)	1.750 (44.5)	1.781 (45.2)	.781 (19.8)	.187 (4.8)	1.375 (34.9)	.154 (3.9)	1.417 (36.0)	1.626 (41.3)
28	2.000 (50.8)	.147 (3.7)	1.7500-18 UNS	2.885 (73.2)	.953 (24.2)	2.000 (50.8)	1.781 (45.2)	.922 (23.4)	.187 (4.8)	1.562 (39.7)	.154 (3.9)	1.654 (42.0)	1.854 (47.1)
32	2.250 (57.2)	.173 (4.4)	2.0000-18 UNS	2.943 (74.8)	1.031 (26.2)	2.250 (57.2)	2.087 (53.0)	1.156 (29.4)	.250 (6.4)	1.750 (44.5)	.177 (4.5)	1.902 (48.3)	2.118 (53.8)
36	2.500 (63.5)	.173 (4.4)	2.2500-16 UN	2.943 (74.8)	1.031 (26.2)	2.500 (63.5)	2.281 (57.9)	1.250 (31.8)	.250 (6.4)	1.938 (49.2)	.177 (4.5)	2.150 (54.6)	2.362 (60.0)

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



Panel Cutout

Rev. 1301.1

Box Mount Receptacle

PS Series • High-Performance Solder Connectors

PS02 F 16S-1 S N - 02

- 1 **BASIC PART NUMBER**
PS02 Box mount receptacle
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. C-14
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. C-14 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. C-13) for additional kit options.



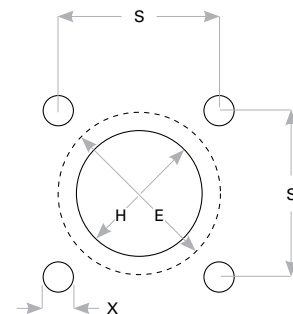
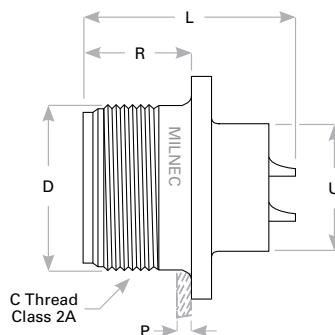
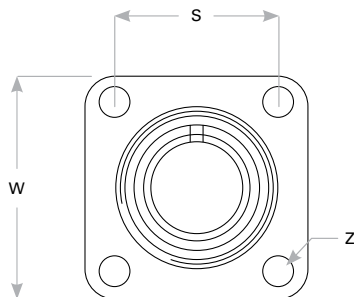
Short rear profile receptacle for tight spaces

Because box mount receptacles do not have accessory threads for backshells, their low rear profile permits mounting in confined spaces, or where backshells are not required. A mounting gasket is recommended to seal mounting location.

Receptacle Dimensions

Shell Size	W	Z	C Thread Class 2A	L	R	D	U	P Max Rear Panel†	S	X	H Front Mount	E Rear Mount
10SL	1.000 (25.4)	.120 (3.0)	.6250-24 UNEF	1.094 (27.8)	.562 (14.3)	.625 (15.9)	.625 (15.9)	.187 (4.8)	.719 (18.3)	.134 (3.4)	.646 (16.4)	.728 (18.5)
12S	1.094 (27.8)	.120 (3.0)	.7500-20 UNEF	1.094 (27.8)	.562 (14.3)	.750 (19.1)	.625 (15.9)	.187 (4.8)	.812 (20.6)	.134 (3.4)	.646 (16.4)	.854 (21.7)
14S	1.188 (30.2)	.120 (3.0)	.8750-20 UNEF	1.094 (27.8)	.562 (14.3)	.875 (22.2)	.750 (19.1)	.187 (4.8)	.906 (23.0)	.134 (3.4)	.776 (19.7)	.980 (24.9)
16S	1.281 (32.5)	.120 (3.0)	1.0000-20 UNEF	1.094 (27.8)	.562 (14.3)	1.000 (25.4)	.875 (22.2)	.187 (4.8)	.969 (24.6)	.134 (3.4)	.902 (22.9)	1.091 (27.7)
16	1.281 (32.5)	.120 (3.0)	1.0000-20 UNEF	1.532 (38.9)	.750 (19.1)	1.000 (25.4)	.875 (22.2)	.125 (3.2)	.969 (24.6)	.134 (3.4)	.902 (22.9)	1.091 (27.7)
18	1.375 (34.9)	.120 (3.0)	1.1250-18 UNEF	1.532 (38.9)	.750 (19.1)	1.125 (28.6)	1.000 (25.4)	.125 (3.2)	1.062 (27.0)	.134 (3.4)	1.028 (26.1)	1.224 (31.1)
20	1.500 (38.1)	.120 (3.0)	1.2500-18 UNEF	1.532 (38.9)	.750 (19.1)	1.375 (34.9)	1.125 (28.6)	.125 (3.2)	1.156 (29.4)	.134 (3.4)	1.161 (29.5)	1.358 (34.5)
22	1.625 (41.3)	.120 (3.0)	1.3750-18 UNEF	1.532 (38.9)	.750 (19.1)	1.500 (38.1)	1.250 (31.8)	.125 (3.2)	1.250 (31.8)	.134 (3.4)	1.287 (32.7)	1.488 (37.8)
24	1.750 (44.5)	.147 (3.7)	1.5000-18 UNEF	1.531 (39.0)	.812 (20.6)	1.750 (44.5)	1.375 (34.9)	.187 (4.8)	1.375 (34.9)	.154 (3.9)	1.417 (36.0)	1.626 (41.3)
28	2.000 (50.8)	.147 (3.7)	1.7500-18 UNS	1.531 (39.0)	.812 (20.6)	2.000 (50.8)	1.625 (41.3)	.187 (4.8)	1.562 (39.7)	.154 (3.9)	1.654 (42.0)	1.854 (47.1)
32	2.250 (57.2)	.173 (4.4)	2.0000-18 UNS	1.531 (39.0)	.875 (22.2)	2.250 (57.2)	1.875 (47.6)	.250 (6.4)	1.750 (44.5)	.177 (4.5)	1.902 (48.3)	2.118 (53.8)
36	2.500 (63.5)	.173 (4.4)	2.2500-16 UN	1.531 (39.0)	.875 (22.2)	2.500 (63.5)	2.062 (52.4)	.250 (6.4)	1.938 (49.2)	.177 (4.5)	2.150 (54.6)	2.362 (60.0)

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



Panel Cutout

Rev. 1301.1

Cable Mount Receptacle

PS Series • High-Performance Solder Connectors



PS01 F 16S-1 S N - 02

- 1 **BASIC PART NUMBER**
PS01 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. C-14
- 4 **CONTACT STYLE**
P Pin
S Socket
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. C-14 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective cover + cable bushing



Receptacle for extension cord applications

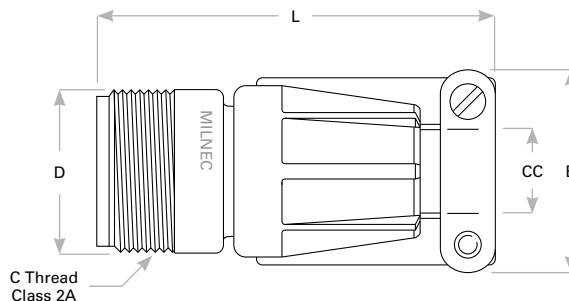
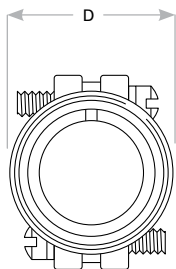
Cable mount receptacles are mounted to loose cables rather than a panel. An integrated backshell provides both strain relief and environmental protection. Covers are recommended to protect contacts and coupling threads from damage.

Note: See part builder (p. C-13) for additional kit options.

Receptacle Dimensions

Shell Size	D	C Thread Class 2A	L	B	CC Cable Clearance
10SL	.625 (15.9)	.6250-24 UNEF	2.129 (54.1)	.896 (22.8)	.281 (7.1)
12S	.750 (19.1)	.7500-20 UNEF	2.129 (54.1)	.896 (22.8)	.281 (7.1)
14S	.875 (22.2)	.8750-20 UNEF	2.201 (55.9)	1.021 (25.9)	.406 (10.3)
16S	1.000 (25.4)	1.0000-20 UNEF	2.201 (55.9)	1.151 (29.2)	.500 (12.7)
16	1.000 (25.4)	1.0000-20 UNEF	2.524 (64.1)	1.151 (29.2)	.500 (12.7)
18	1.125 (28.6)	1.1250-18 UNEF	2.596 (65.9)	1.242 (31.5)	.531 (13.5)
20	1.375 (34.9)	1.2500-18 UNEF	2.654 (67.4)	1.499 (38.1)	.656 (16.7)
22	1.500 (38.1)	1.3750-18 UNEF	2.654 (67.4)	1.499 (38.1)	.740 (18.8)
24	1.750 (44.5)	1.5000-18 UNEF	2.885 (73.3)	1.781 (45.2)	.781 (19.8)
28	2.000 (50.8)	1.7500-18 UNS	2.885 (73.3)	1.781 (45.2)	.922 (23.4)
32	2.250 (57.2)	2.0000-18 UNS	2.943 (74.8)	2.087 (53.0)	1.156 (29.4)
36	2.500 (63.5)	2.2500-16 UN	2.943 (74.8)	2.281 (57.9)	1.250 (31.8)

Dimensions are in inches (mm).



Rev. 1301.1

Thru-Bulkhead Receptacle

PS Series • High-Performance Solder Connectors

PS22 F 18-11 PS N - 02

- 1 **BASIC PART NUMBER**
PS22 Thru-bulkhead receptacle
- 2 **MATERIAL & FINISH**
F Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**
See Insert Arrangement Selection table, p. C-14
- 4 **CONTACT STYLE**
PS Pin / socket (non-configurable)
- 5 **INSERT ROTATION**
N Normal or W, X, Y, Z, see p. C-14 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
02 Protective covers (2x) + mounting gasket
03 02 kit + mounting bracket + sealing screws

Note: See part builder (p. C-13) for additional kit options.



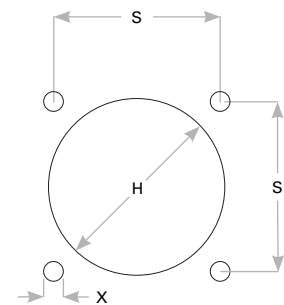
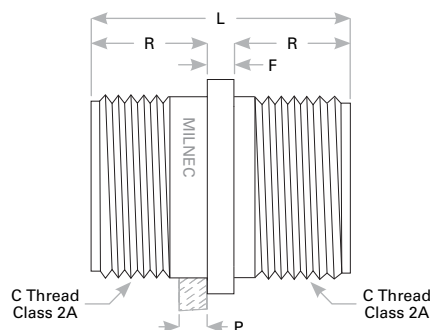
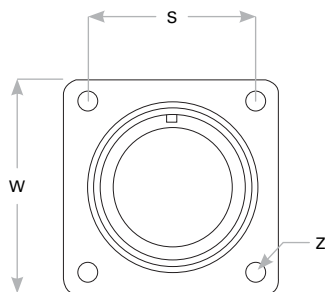
Bulkhead feed-thru with dual receptacle ends

This unique connector has receptacles on both sides of the shell, allowing cable plugs to connect from both sides. The long side of the shell features socket contacts, the short side pin contacts. A mounting bracket and gasket are recommended.

Receptacle Dimensions

Shell Size	W	Z	L	R	F	C Thread Class 2A	Min Thread Length	P Max Rear Panel*	S	X	H
10SL	NOT AVAILABLE										
12S	1.094 (27.8)	.120 (3.0)	1.563 (39.7)	.711 (18.1)	.141 (3.6)	.7500-20 UNEF	.406 (10.3)	.266 (6.8)	.812 (20.6)	.120 (3.1)	.812 (20.6)
14S	1.188 (30.2)	.120 (3.0)	1.563 (39.7)	.711 (18.1)	.141 (3.6)	.8750-20 UNEF	.406 (10.3)	.266 (6.8)	.906 (23.0)	.120 (3.1)	.938 (23.8)
16S	1.281 (32.5)	.120 (3.0)	1.563 (39.7)	.711 (18.1)	.141 (3.6)	1.0000-20 UNEF	.406 (10.3)	.266 (6.8)	.969 (24.6)	.120 (3.1)	1.062 (27.0)
18	1.375 (34.9)	.120 (3.0)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.1250-18 UNEF	.625 (15.9)	.312 (7.9)	1.062 (27.0)	.120 (3.1)	1.188 (30.2)
20	1.500 (38.1)	.120 (3.0)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.2500-18 UNEF	.625 (15.9)	.312 (7.9)	1.156 (29.4)	.120 (3.1)	1.312 (33.3)
22	1.625 (41.3)	.120 (3.0)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.3750-18 UNEF	.625 (15.9)	.312 (7.9)	1.250 (31.8)	.120 (3.1)	1.438 (36.5)
24	1.750 (44.5)	.147 (3.7)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.5000-18 UNEF	.625 (15.9)	.312 (7.9)	1.375 (34.9)	.147 (3.7)	1.562 (39.7)
28	2.000 (50.8)	.147 (3.7)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	1.7500-18 UNS	.625 (15.9)	.312 (7.9)	1.562 (39.7)	.147 (3.7)	1.812 (46.0)
32	2.250 (57.2)	.173 (4.4)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	2.0000-18 UNS	.625 (15.9)	.312 (7.9)	1.750 (44.5)	.173 (4.4)	2.062 (52.4)
36	2.500 (63.5)	.173 (4.4)	2.125 (54.0)	.985 (25.0)	.155 (4.0)	2.2500-16 UN	.625 (15.9)	.312 (7.9)	1.938 (49.2)	.173 (4.4)	2.312 (58.7)

Dimensions are in inches (mm)



Panel Cutout

Rev. 1301.1

Protective Covers

PS Series • High-Performance Solder Connectors



PSCP - 16 B

- 1 **BASIC PART NUMBER**
PSCP Plug cover w/ sash chain
PSCR Receptacle cover w/ sash chain
- 2 **SHELL SIZE**
 See Protective Cover Dimensions table below
- 3 **MATERIAL & FINISH**
B Aluminum, anodize hardcoat

Note: See part builder (p. C-13) for additional kit options.



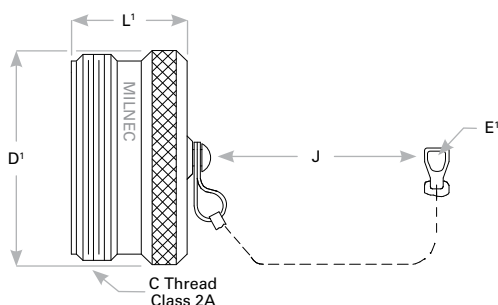
Seal and protect all uncoupled connectors

Connectors should always be paired with protective covers to environmentally seal and protect the connector from damage. In addition to protecting contacts, covers also protect the coupling threads from impact and debris, ensuring reliable coupling.

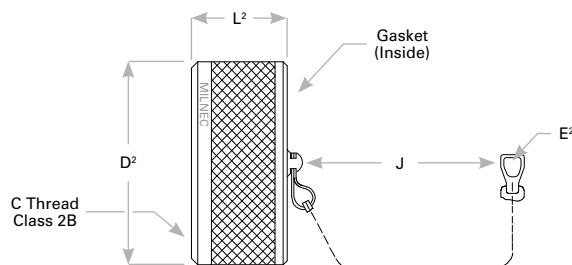
Protective Cover Dimensions

Shell Size	C Thread Class 2A	L ¹	D ¹	E ¹	J Chain Length	C Thread Class 2B	L ²	D ²	E ²
10	.625-24 UNEF	.656 (16.7)	.687 (17.4)	.151 (3.8)	4.00 (101.6)	.625-24 UNEF	.469 (11.9)	.815 (20.7)	.135 (3.4)
12	.750-20 UNEF	.844 (21.4)	.812 (20.6)	.151 (3.8)	4.50 (114.3)	.750-20 UNEF	.469 (11.9)	1.000 (25.4)	.135 (3.4)
14	.875-20 UNEF	.844 (21.4)	.937 (23.8)	.151 (3.8)	4.50 (114.3)	.875-20 UNEF	.469 (11.9)	1.125 (28.6)	.135 (3.4)
16	1.000-20 UNEF	.844 (21.4)	1.062 (27.0)	.151 (3.8)	4.50 (114.3)	1.000-20 UNEF	.469 (11.9)	1.188 (30.2)	.135 (3.4)
18	1.125-18 UNEF	.844 (21.4)	1.187 (30.1)	.151 (3.8)	5.00 (127.0)	1.125-18 UNEF	.469 (11.9)	1.344 (34.1)	.135 (3.4)
20	1.250-18 UNEF	.844 (21.4)	1.312 (33.3)	.182 (4.6)	5.00 (127.0)	1.250-18 UNEF	.469 (11.9)	1.469 (37.3)	.135 (3.4)
22	1.375-18 UNEF	.844 (21.4)	1.437 (36.5)	.182 (4.6)	5.50 (139.7)	1.375-18 UNEF	.469 (11.9)	1.594 (40.5)	.135 (3.4)
24	1.500-18 UNEF	.844 (21.4)	1.562 (39.7)	.182 (4.6)	7.75 (196.9)	1.500-18 UNEF	.469 (11.9)	1.719 (43.7)	.166 (4.2)
28	1.750-18 UNS	.844 (21.4)	1.812 (46.0)	.182 (4.6)	7.75 (196.9)	1.750-18 UNS	.531 (13.5)	1.969 (50.0)	.166 (4.2)
32	2.000-18 UNS	.844 (21.4)	2.062 (52.4)	.213 (5.4)	7.75 (196.9)	2.000-18 UNS	.531 (13.5)	2.219 (56.4)	.182 (4.6)
36	2.250-16 UN	.844 (21.4)	2.312 (58.7)	.213 (5.4)	7.75 (196.9)	2.250-16 UN	.531 (13.5)	2.469 (62.7)	.182 (4.6)

Dimensions are in inches (mm).



Plug Cover

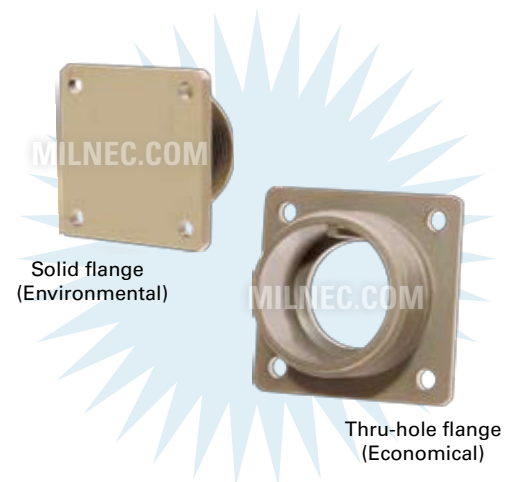


Receptacle Cover

Rev. 1301.1

PSCD - 16 F - 02

- 1 **BASIC PART NUMBER**
 - PSCD** Stowage receptacle (thru-hole flange)
 - PSCC** Stowage receptacle (solid flange)
- 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. C-13) for additional kit options.



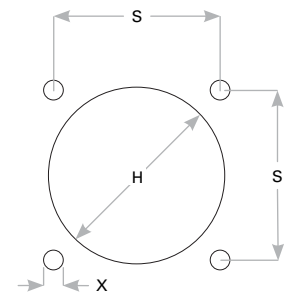
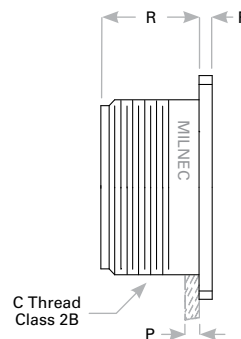
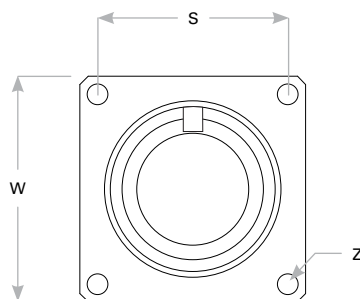
Store and safely isolate unmated cables

Prevent operator injury and connector damage by providing a safe place to safely stow and organize unused cables. Solid flange (PSCC) stowage receptacles are available when full environmental sealing is required. Covers are also recommended to keep unused stowage receptacles clean and dry.

Stowage Receptacle Dimensions

Shell Size	W	S	Z	C Thread Class 2B	R	F	P Max Rear Panel†	S	X	H
10S	1.031 (26.2)	.719 (18.3)	.130 (3.3)	.625-24 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.719 (18.3)	.120 (3.1)	.688 (17.5)
12S	1.125 (28.6)	.812 (20.6)	.130 (3.3)	.750-20 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.812 (20.6)	.120 (3.1)	.812 (20.6)
14S	1.219 (31.0)	.906 (23.0)	.130 (3.3)	.875-20 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.906 (23.0)	.120 (3.1)	.938 (23.8)
16S	1.312 (33.3)	.969 (24.6)	.130 (3.3)	1.000-20 UNEF	.593 (15.1)	.156 (4.0)	.125 (3.2)	.969 (24.6)	.120 (3.1)	1.062 (27.0)
18	1.406 (35.7)	1.062 (27.0)	.130 (3.3)	1.125-18 UNEF	.781 (19.8)	.203 (5.2)	.125 (3.2)	1.062 (27.0)	.120 (3.1)	1.188 (30.2)
20	1.531 (38.9)	1.156 (29.4)	.130 (3.3)	1.250-18 UNEF	.781 (19.8)	.203 (5.2)	.125 (3.2)	1.156 (29.4)	.120 (3.1)	1.312 (33.3)
22	1.656 (42.1)	1.250 (31.8)	.130 (3.3)	1.375-18 UNEF	.781 (19.8)	.203 (5.2)	.125 (3.2)	1.250 (31.8)	.120 (3.1)	1.438 (36.5)
24	1.781 (45.2)	1.375 (34.9)	.157 (4.0)	1.500-18 UNEF	.843 (21.4)	.203 (5.2)	.125 (3.2)	1.375 (34.9)	.147 (3.7)	1.562 (39.7)
28	2.031 (51.6)	1.562 (39.7)	.157 (4.0)	1.750-18 UNS	.843 (21.4)	.203 (5.2)	.125 (3.2)	1.562 (39.7)	.147 (3.7)	1.812 (46.0)
32	2.281 (57.9)	1.750 (44.5)	.183 (4.6)	2.000-18 UNS	.906 (23.0)	.359 (9.1)	.125 (3.2)	1.750 (44.5)	.173 (4.4)	2.062 (52.4)
36	2.531 (64.3)	1.938 (49.2)	.183 (4.6)	2.250-16 UN	.906 (23.0)	.359 (9.1)	.125 (3.2)	1.938 (49.2)	.173 (4.4)	2.312 (58.7)

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



Panel Cutout

PS Series • High-Performance Solder Connectors



PSGE - 16

1 BASIC PART NUMBER

PSGE Standard gasket

PSGS RFI shielding gasket

PSGL* Low-temperature gasket rated to -67°F (-55°C)

2 SHELL SIZE

See Gasket Dimensions table below

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

Note: See part builder (p. C-13) for additional kit options.



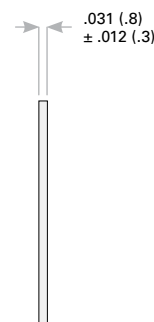
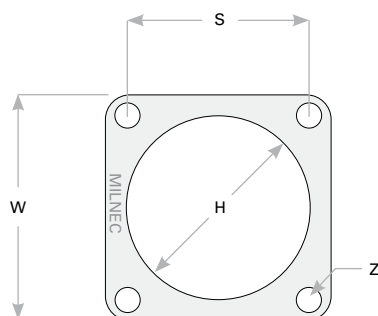
Environmentally seal your mounting point

Mounting gaskets will seal the mounting space between the receptacles and the panel to maintain the environmental integrity of your enclosure. They may be used in either rear or front mount receptacle installations.

Gasket Dimensions

Shell Size	W	S	Z	H
10	1.000 (25.4)	.719 (18.3)	.172 (4.4)	.625 (15.9)
12	1.094 (27.8)	.813 (20.7)	.172 (4.4)	.750 (19.1)
14	1.188 (30.2)	.906 (23.0)	.172 (4.4)	.875 (22.2)
16	1.281 (32.5)	.969 (24.6)	.172 (4.4)	1.000 (25.4)
18	1.375 (34.9)	1.063 (27.0)	.203 (5.2)	1.125 (28.6)
20	1.500 (38.1)	1.156 (29.4)	.203 (5.2)	1.250 (31.8)
22	1.625 (41.3)	1.250 (31.8)	.203 (5.2)	1.375 (34.9)
24	1.750 (44.5)	1.375 (34.9)	.203 (5.2)	1.500 (38.1)
28	2.000 (50.8)	1.563 (39.7)	.203 (5.2)	1.750 (44.5)
32	2.250 (57.2)	1.750 (44.5)	.219 (5.6)	2.000 (50.8)
36	2.500 (63.5)	1.938 (49.2)	.219 (5.6)	2.188 (55.6)

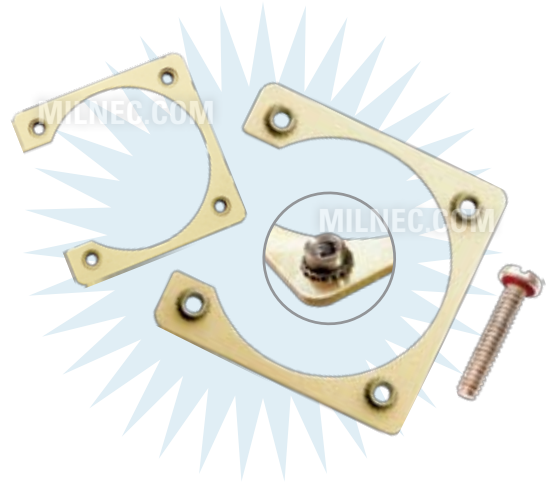
Dimensions are in inches (mm).



PSMB - 16 - A

- 1 **BASIC PART NUMBER**
PSMB Mounting bracket, aluminium alloy with SST locking nuts
- 2 **SHELL SIZE**
See Bracket Dimensions table below
- 3 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**
A Self-sealing SST fillister head screws (4x)

Note: See part builder (p. C-13) for additional kit options.



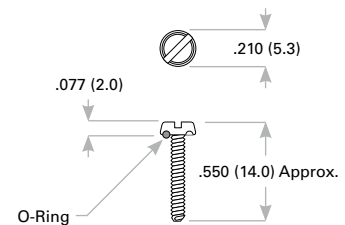
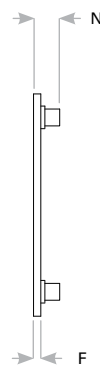
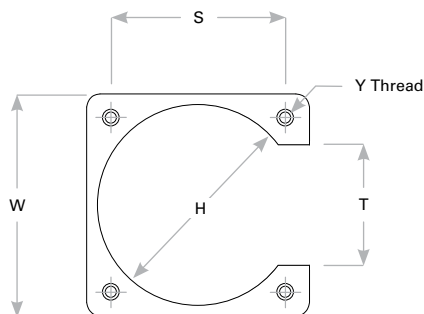
Decrease number of mounting components

Mounting brackets with captive stainless steel locking nuts prevent loose fasteners from falling into susceptible areas, which may cause equipment failure. Optional sealing screws with O-rings will effectively seal the mounting holes on your enclosure from water ingress.

Bracket Dimensions

Shell Size	W	S	H	T	N	F	Screw Size	Y Thread
10	1.019 (25.9)	.719 (18.3)	.720 (18.3)	.433 (11.0)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
12	1.104 (28.0)	.812 (20.6)	.855 (21.7)	.530 (13.5)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
14	1.198 (30.4)	.906 (23.0)	.984 (25.0)	.624 (15.8)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
16	1.280 (32.5)	.969 (24.6)	1.094 (27.8)	.687 (17.4)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
18	1.406 (35.7)	1.062 (27.0)	1.220 (31.0)	.780 (19.8)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
20	1.535 (39.0)	1.156 (29.4)	1.345 (34.2)	.874 (22.2)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
22	1.665 (42.3)	1.250 (31.8)	1.478 (37.5)	.968 (24.6)	.136 (3.5)	.040 (1.0)	#4	4-40 UNJC-3B
24	1.738 (44.1)	1.375 (34.9)	1.483 (37.7)	.907 (23.0)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
28	2.000 (50.8)	1.562 (39.7)	1.820 (46.2)	1.125 (28.6)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
32	2.312 (58.7)	1.750 (44.5)	2.062 (52.4)	1.188 (30.2)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B
36	2.500 (63.5)	1.938 (49.2)	2.312 (58.7)	1.375 (34.9)	.153 (3.9)	.040 (1.0)	#6	6-32 UNJC-3B

Dimensions are in inches (mm).



Cable Bushing

PS Series • High-Performance Solder Connectors



PSRB - 16

- 1

2
- 1

2
- 1

2
- 1

2

BASIC PART NUMBER
PSRB Cable bushing

SHELL SIZE
See Bushing Shell Size Selector table below

Note: Individual bushings can be ordered for wire bundles too small to seal properly within a single sleeve. Additional bushings should be ordered one size smaller or bigger to nest inside one another.

 **Protects wires & provides additional sealing**
These neoprene bushings provide an additional environmental seal, and they protect the wire jackets from friction against the strain relief clamps.

Bushing Shell Size Selector

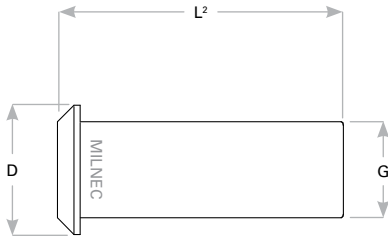
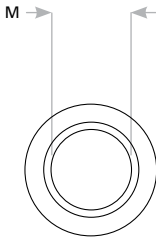
Shell Size	Bushing Included
10	PSRB34-4
12	PSRB34-4
14	PSRB34-6
16	PSRB34-8
18	PSRB34-10
20	PSRB34-12
22	PSRB34-12
24	PSRB34-12, PSRB34-16
28	PSRB34-12, PSRB34-16
32	PSRB34-16, PSRB34-20
36	PSRB34-20, PSRB34-24

Two bushings, designed to nest inside one another, are supplied with shell sizes 24 and larger.

Bushing Dimensions

Bushing Part Numbers	M	L ²	D	G
PSRB34-3	.130 (3.3)	2.875 (73.0)	.374 (9.5)	.210 (5.3)
PSRB34-4	.220 (5.6)	2.750 (69.9)	.500 (12.7)	.302 (7.7)
PSRB34-6	.312 (7.9)	2.625 (66.7)	.614 (15.6)	.427 (10.9)
PSRB34-8	.437 (11.1)	2.500 (63.5)	.739 (18.8)	.552 (14.0)
PSRB34-10	.562 (14.3)	2.375 (60.3)	.889 (22.6)	.615 (15.6)
PSRB34-12	.625 (15.9)	2.250 (57.2)	1.084 (27.5)	.740 (18.8)
PSRB34-16	.750 (19.1)	2.125 (54.0)	1.309 (33.3)	.927 (23.6)
PSRB34-20	.937 (23.8)	2.000 (50.8)	1.592 (40.4)	1.240 (31.5)
PSRB34-24	1.250 (31.8)	1.875 (47.6)	1.842 (46.8)	1.365 (34.7)

Dimensions are in inches (mm).



Rev. 1301.1



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)	