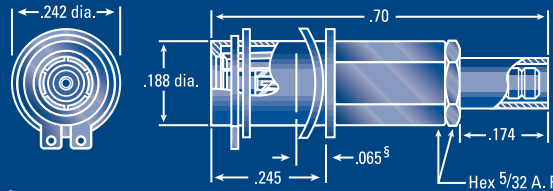
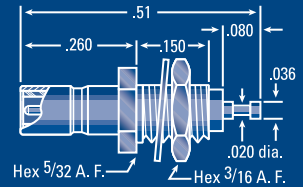


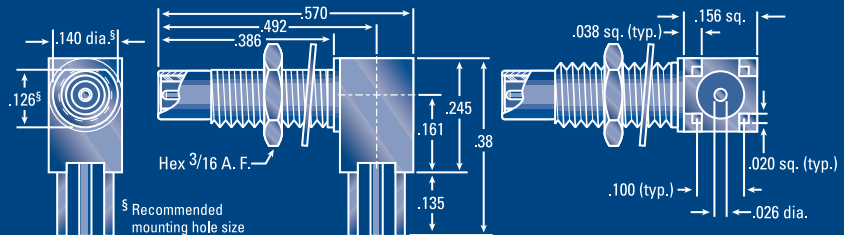
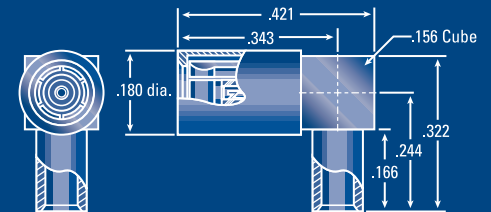
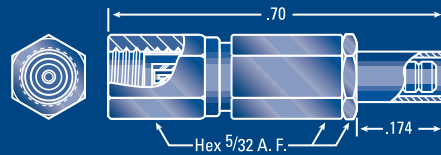
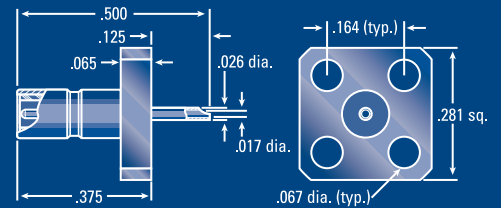
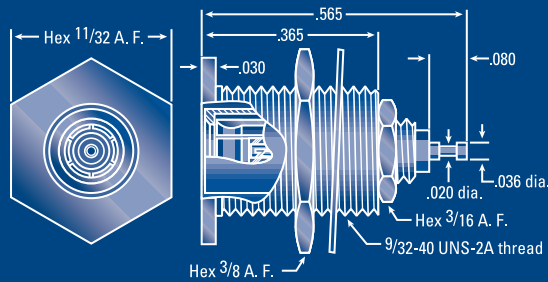
**DIGITAL CATALOG**

# Microminiature Coaxial Connectors

**SSMB  
SSLB  
SSMC**



§ From internal mating plane (end of mating connector when fully engaged) to rear of panel



§ Recommended mounting hole size



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# SSMB/SSLB/SSMC Microminiature Connectors

Click at the bottom of any page to go to the AEP website.

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# SSMB/SSLB/SSMC Microminiature Connectors

## Introduction

**SSMB** (snap-on mating), **SSLB** (slide-on mating), and **SSMC** (screw-on mating) microminiature connectors from AEP can be the answer you're looking for in your applications that are short on space but need to be long on performance.

Although SSMB and SSMC connectors are about a third smaller than SMB and SMC connectors, AEP's design skills and materials engineering make them remarkably rugged—in most cases, even more reliable than their larger counterparts. For example, AEP's SSMB connectors have been tested to over

1,000 mating cycles (twice the MIL-spec requirement) without loss of performance. And because they are included in MIL-PRF-39012, you don't have to take the risk of using a proprietary design—AEP's SSMB and SSMC connectors are fully intermateable with other manufacturers' parts.

The superior electrical characteristics of SSMB and SSMC connectors (see page 6) even makes them an alternative to much larger SMA connectors in many applications.

In this catalog, you'll find such innovative and useful configurations as:

- P.C. board receptacles with pretinned legs and contacts (see page 3 for more information);
- Surface-mountable P.C. board receptacles, in top and edge mount types (see page 3 for more information);
- P.C. board cable terminations, for easy, permanent attachment of cable to P.C. boards without the need to pigtail cable braid (see page 28);
- Vibration-proof, float mounted SSLB plugs, ideal for use in rack-and-panel applications with multiple connector pairs (see page 4 for more information)

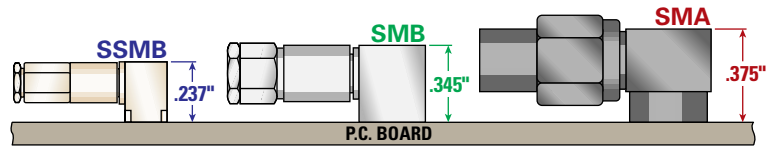
All SSMB, SSLB, and SSMC connectors are gold-plated for superior electrical and environmental performance.

**Save yourself time, money, and trouble**—call the experts at AEP for complete cable assemblies using SSMB, SSLB, and SSMC connectors. With experience in producing thousands of microminiature cable assemblies for such demanding applications as SINCGARS (the U.S. Army's primary tactical field radio system), AEP can provide you with complete, tested, guaranteed cable assemblies—flexible or semi-rigid; any size, any quantity.

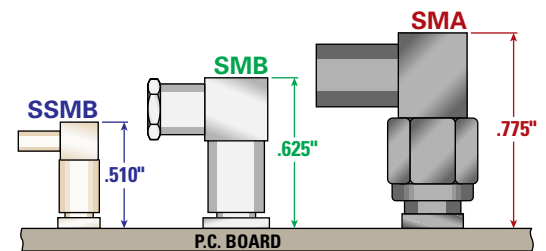
## HOW THEY STACK UP:

(mated pairs)

### Right angle PCB receptacle and straight cable plug



### Straight PCB receptacle and right angle cable plug



(SSMC series offers similar space savings vs. SMC and SMA)



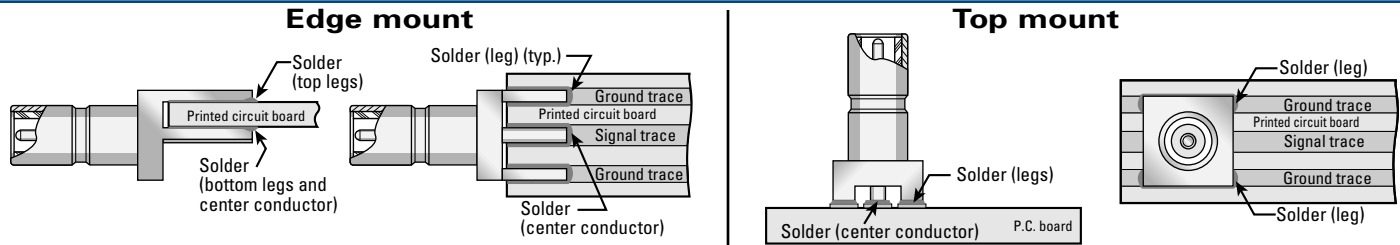
# SSMB/SSLB/SSMC Features and Options

## Surface Mount P.C. Board Receptacles

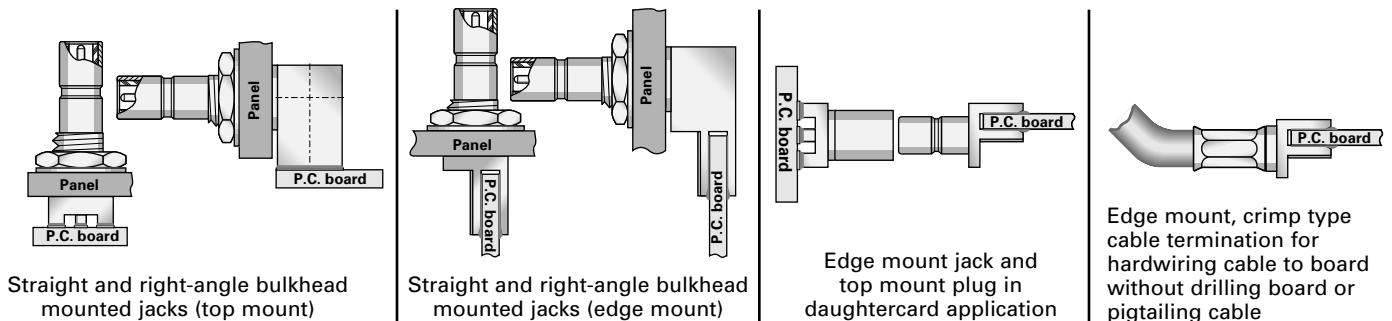
AEP SSMB and SSMC surface-mount P.C. board receptacles are available in top mount and edge mount types (see below). when mounted, they withstand torque, shear, and pull forces greatly in excess of standard mating and unmating forces. Tape-and-reel packaging is available for top-mount versions.

AEP surface-mount P.C. board receptacles meet all interface requirements of MIL-STD-348, and appropriate performance requirements of MIL-PRF-39012. Most configurations can also be furnished with pretinned legs (see bottom of this page) for convenient, reliable assembly.

Edge-mount types in this catalog are designed for .031" thick P.C. boards, but they are readily available for boards up to .045" thick. Connectors for thicker boards can be supplied by special order.

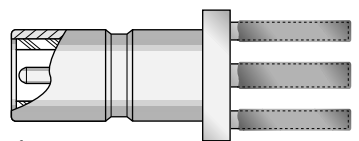


Combining AEP's surface-mount technology with various body styles and interfaces can provide an almost unlimited variety of configurations—these are just a few examples.



## P.C. Board Receptacles with Pretinned Legs and Contacts

AEP pretinned P.C. board receptacles are shipped with a tightly-controlled layer of solder on the legs and center conductor, eliminating gold embrittlement in solder joints. Nickel-plated connectors with pretinned legs have the solderability of gold or silver-plated connectors at lower cost.



Hot solder dip (legs and contact) Sn63, .002-.005 thick, to within .040 of body, 95% minimum coverage, gold removed during tinning operation.

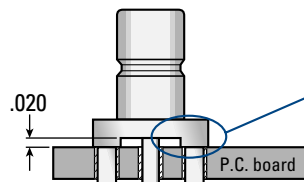


Computer-controlled, automated solder-dipping equipment and custom fixturing ensure precise, consistent coverage to AEP standard specification (see above), or customer-specified requirements.

Tinned areas meet the solderability requirements of MIL-STD-202, Method 208 after eight hours steam aging. Pretinned legs are available on most P.C. board receptacles in this catalog—see product pages for part numbers.

## P.C. Board Receptacles with Standoff Legs

AEP P.C. board receptacles with stepped legs raise the connector body above the board surface, allowing free flow of cleaning solutions and air, as well as providing space for visual inspection.



Standoffs milled into legs hold the connector body a precise distance above the board during soldering.



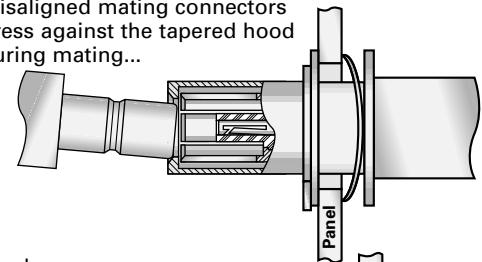
# SSMB/SSLB/SSMC Features and Options

## Vibration-Proof Float Mounted Plugs (see page 14)

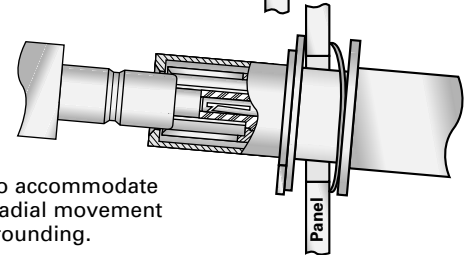
AEP's vibration-proof float mounted plugs (SSLB series only) use a tempered spring washer within the mounting system for reliable grounding between the connector and the panel under vibration. Mounting integrity is augmented by the Truarc retaining ring, which provides almost 360° of contact within its retaining groove, as opposed to the 10–20° of contact typical of C-ring or E-ring retaining clips. This makes it virtually impossible to dislodge the connectors from their panel mountings under any conditions of mechanical stress.

This system, combined with closed-end mating hoods and inner female contacts, allows the connectors a wide range of float while mating without damage to the connectors. Their reliability has been proven through thousands of hours of flight time in avionics systems over the past ten years without a single field failure.

Misaligned mating connectors press against the tapered hood during mating...

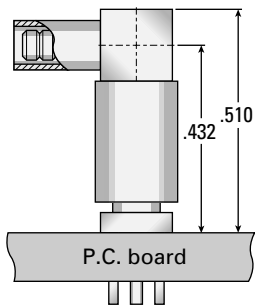


...and the hood guides the float-mounted connector into alignment for proper mating, while the spring washer deflects to accommodate the angular and radial movement with no loss of grounding.

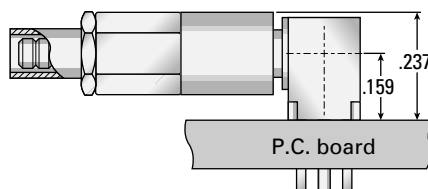


## Mated-Pair Dimension Examples

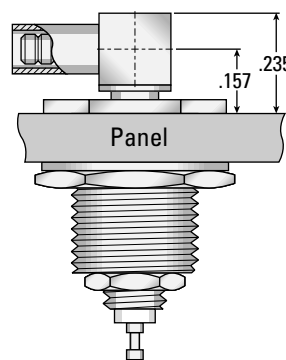
The examples below illustrate working dimensions for some common connector pair applications (SSMB and SSLB series connectors). Multiple pairs can be placed on spacing as close as .200" centerlines. Mated pairs of SSMC connectors have similar envelope dimensions, but additional space should be allowed on all axes for wrench access when mating.



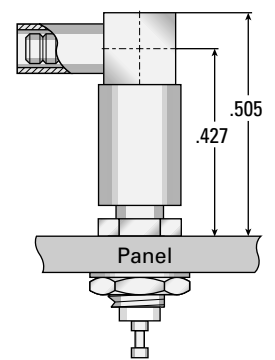
Right angle cable plug (7405 series) and straight P.C. board jack receptacle (7209 series)



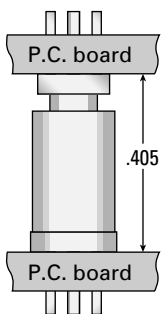
Straight cable plug (7202 series) and right angle P.C. board jack receptacle (7210 series)



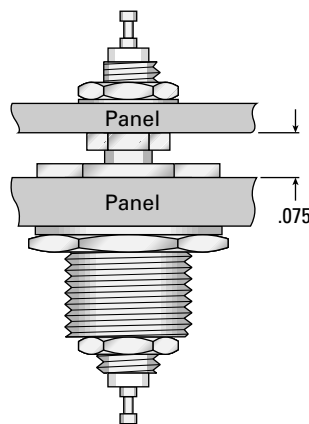
Right angle cable jack (7441 series) and recessed bulkhead jack receptacle (7496 series)



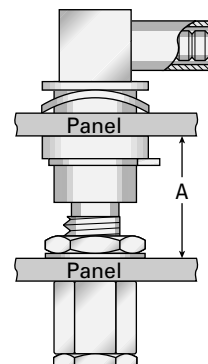
Right angle cable plug (7405 series) and straight bulkhead jack receptacle (7219 series)



Straight P.C. board plug (7225 series) and straight P.C. board jack (7209 series)



Straight bulkhead jack receptacle (7219 series) and recessed bulkhead jack receptacle (7496 series)

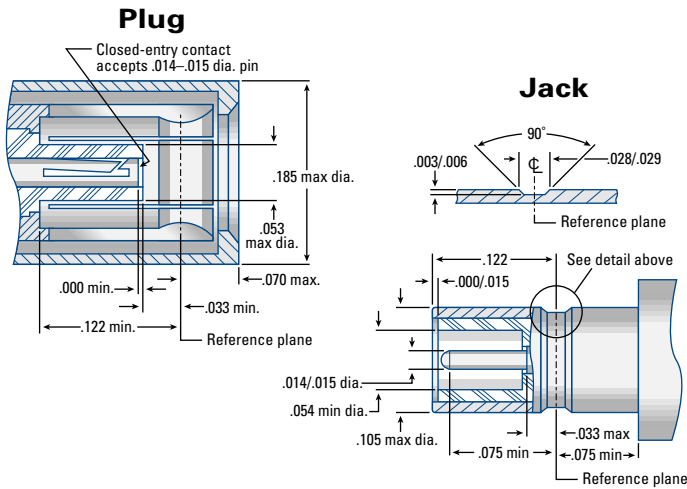


Right angle float-mounted cable plug (7335 series) and straight bulkhead cable jack (7303 series):

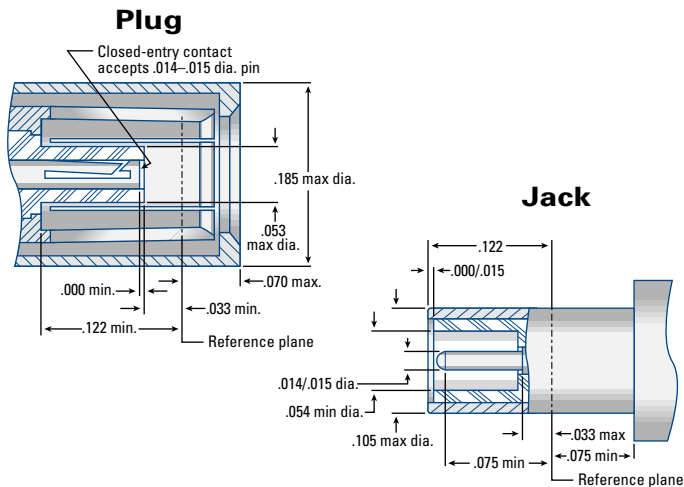
Panel Thickness	'A'
.050"	.360
.093"	.274

# SSMB/SSLB/SSMC Specifications

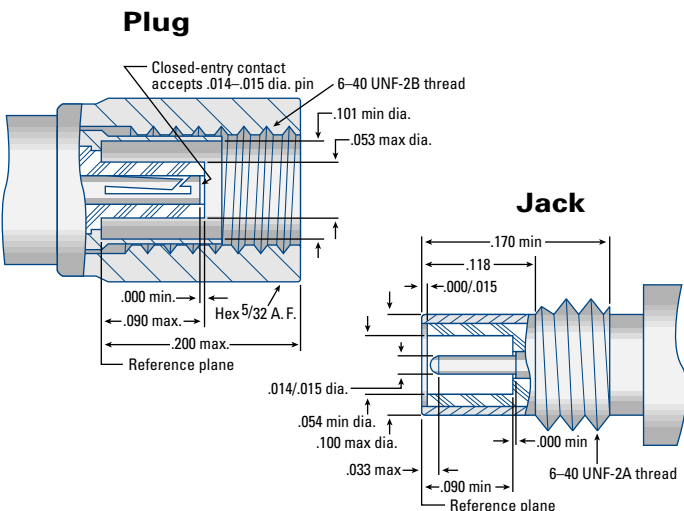
## SSMB Interface Dimensions



## SSLB Interface Dimensions



## SSMC Interface Dimensions



## Specifications

### SSMB and SSLB (MIL-PRF-39012 as applicable)

#### Materials:

**Plug spring fingers, center contacts:** Beryllium copper per ASTM-B-196, Condition HT.  
**Crimp sleeves:** Seamless copper tube per ASTM-B-75, type C12000, temper: light anneal 050.  
**Other metal parts:** Brass per ASTM-B-16, Alloy 360, 1/2 hard.  
**Insulators:** Teflon (TFE) per ASTM-D-1710.

#### Finish:

**Center contacts:** Gold plated per current revision of MIL-PRF-39012\*  
**Other metal parts:** Gold plated to meet current MIL-PRF-39012 corrosion requirements.\*

#### Electrical:

**Impedance:** 50Ω. **Frequency range:** DC-12.4 GHz.  
**Voltage Rating:** 250VRMS @ sea level; 60 VRMS @ 70,000 ft.  
**Insulation Resistance:** 1,000 megohms minimum.

#### Contact Resistance:

**Center contact:** Initial: 4.0 milliohms maximum;  
after environmental test conditions: 6.0 milliohms maximum.  
**Outer contact:** Initial: 1.0 milliohms maximum;  
after environmental test conditions: 1.5 milliohms maximum.

**Cable braid to body:** Initial: 1.0 milliohms maximum; after environmental test conditions: N/A.

**Corona level:** 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.

**RF leakage:** -70 dB min @ 2-3 GHz. **Insertion loss:** .30 dB max @ 1.5 GHz.

VSWR:	Cable	Straight connector	Right angle connector
RG-178		1.25 + (.020 x F[GHz])	1.25 + (.030 x F[GHz])
RG-316		1.30 + (.020 x F[GHz])	1.30 + (.030 x F[GHz])
	.085" semi-rigid	1.25 + (.015 x F[GHz])	1.25 + (.025 x F[GHz])

#### Mechanical:

**Force to engage:** *SSMB:* Initial, 6 pounds max engagement, 2 pounds min disengagement.  
After 500 matings, 6 pounds max engagement, 1 pound min disengagement.  
*SSLB:* Initial, 3 pounds max engagement, .5 pounds min disengagement.

**Contact retention:** 2 pounds min axial force.

**Durability:** 500 mating cycles.

#### Environmental (MIL-STD-202):

**Temperature range:** -65° C to +165° C. **Corrosion:** Method 101, condition B, 5% salt solution.

**Vibration (Method 204):** *SSMB:* Condition B (15G), *SSLB:* Condition A (10G).

**Mechanical shock (Method 213):** *SSMB:* Condition B, 75G @ 6 ms @ 1/2 sine, *SSLB:* N/A.

### SSMC (MIL-PRF-39012 as applicable)

#### Materials:

**Jack mating ends, center contacts:** Beryllium copper per ASTM-B-196, Condition HT.  
**Crimp sleeves:** Seamless copper tube per ASTM-B-75, type C12000, temper: light anneal 050.  
**Other metal parts:** Brass per ASTM-B-16, Alloy 360, 1/2 hard.  
**Insulators:** Teflon (TFE) per ASTM-D-1710.

#### Finish:

**Center contacts:** Gold plated per current revision of MIL-PRF-39012\*  
**Other metal parts:** Gold plated to meet current MIL-PRF-39012 corrosion requirements.\*

#### Electrical:

**Impedance:** 50Ω. **Frequency range:** DC-12.4 GHz.  
**Voltage Rating:** 250VRMS @ sea level; 60 VRMS @ 70,000 ft.  
**Insulation Resistance:** 1,000 megohms minimum.

#### Contact Resistance:

**Center contact:** Initial: 4.0 milliohms maximum;  
after environmental test conditions: 6.0 milliohms maximum.  
**Outer contact:** Initial: 1.0 milliohms maximum;  
after environmental test conditions: 1.5 milliohms maximum.

**Cable braid to body:** Initial: 1.0 milliohms maximum; after environmental test conditions: N/A.

**Corona level:** 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.

**RF leakage:** -50 dB min @ 2-3 GHz. **Insertion loss:** .30 dB max @ 1.5 GHz.

VSWR:	Cable	Straight connector	Right angle connector
RG-178		1.20 + (.020 x F[GHz])	1.20 + (.030 x F[GHz])
RG-316		1.25 + (.020 x F[GHz])	1.25 + (.030 x F[GHz])
	.085" semi-rigid	1.20 + (.015 x F[GHz])	1.20 + (.025 x F[GHz])

#### Mechanical:

**Force to engage:** 16 inch-ounces torque max.

**Mating torque:** 28-32 inch-ounces.

**Coupling nut pulloff resistance:** 25 pounds min.

**Contact retention:** 2 pounds min axial force.

**Durability:** 500 mating cycles.

#### Environmental (MIL-STD-202):

**Temperature range:** -65° C to +165° C. **Corrosion:** Method 101, condition B, 5% salt solution.

**Vibration (Method 204):** Condition D (20G).

**Mechanical shock (Method 213):** Condition B, 75G @ 6 ms @ 1/2 sine.

\*These specifications change periodically with updates to MIL-PRF-39012 requirements.  
Contact factory for latest specifications.



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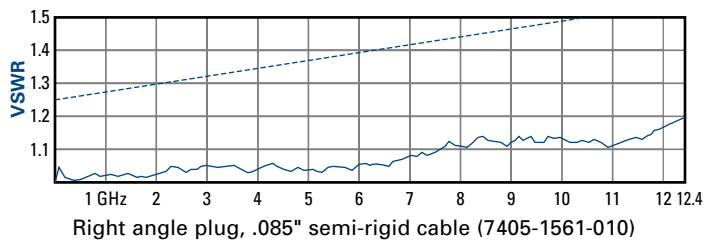
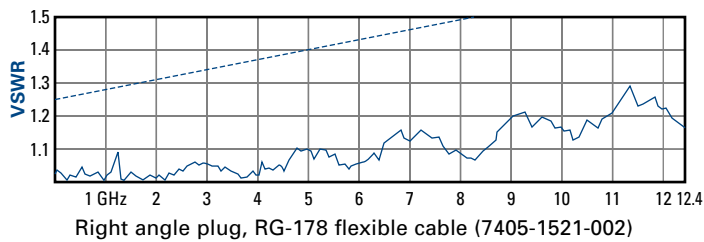
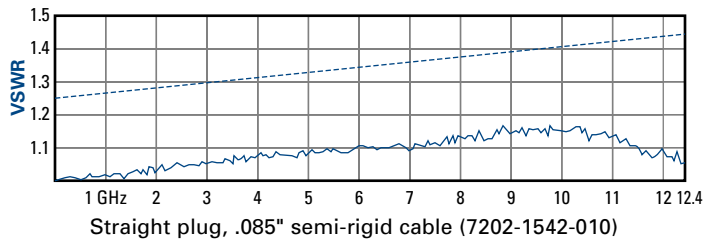
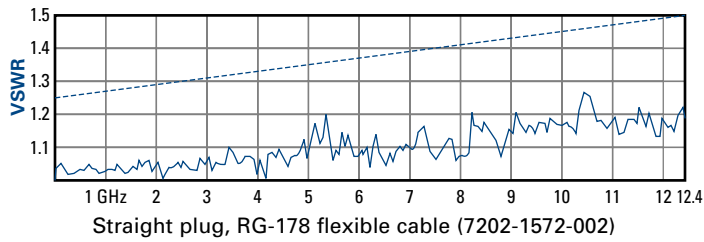
# SSMB/SSLB/SSMC Specifications

## VSWR Data

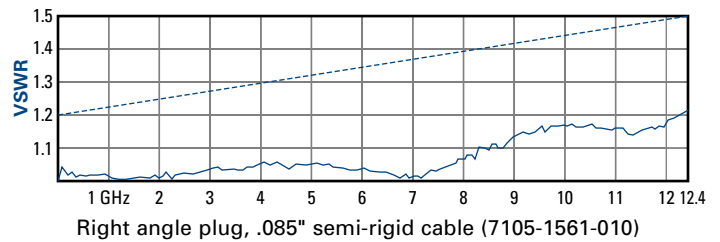
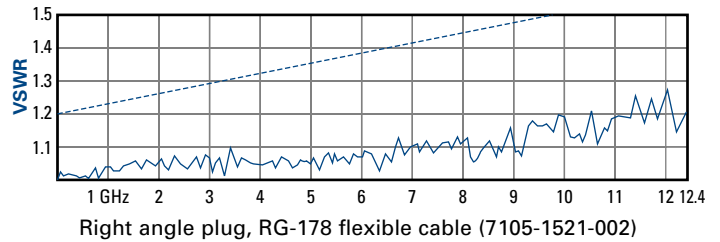
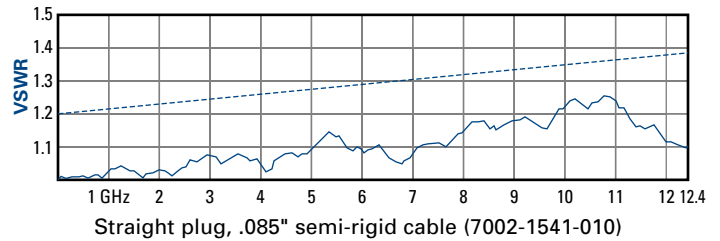
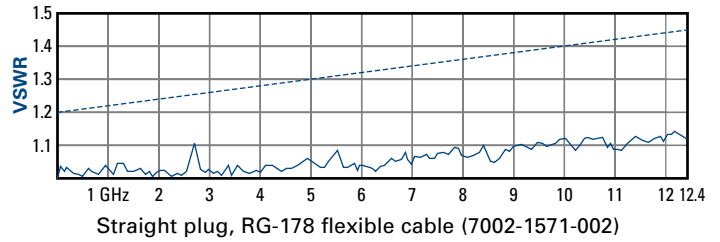
----- Specification requirement

————— Actual (Connectors tested using 200' of cable as load.)

### SSMB



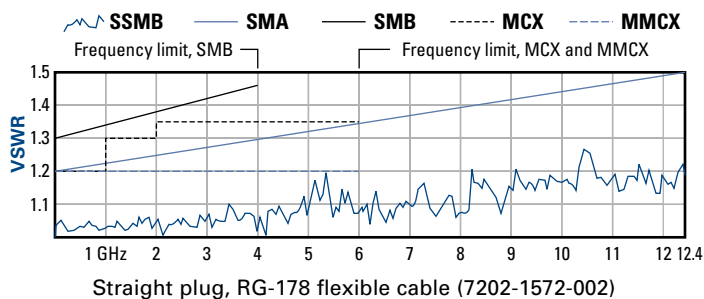
### SSMC



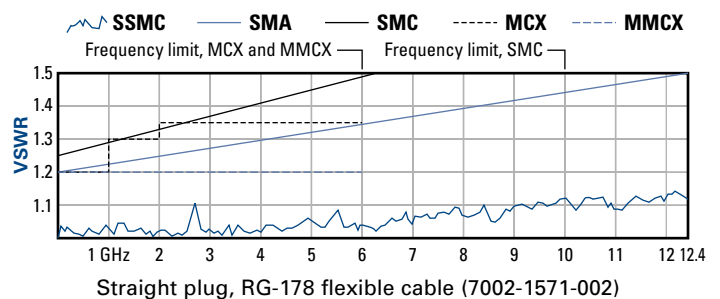
## Comparative VSWR

VSWR limits for SMA, SMB, SMC, MCX, and MMCX from MIL-PRF-39012 and/or manufacturer specifications

### SSMB



### SSMC



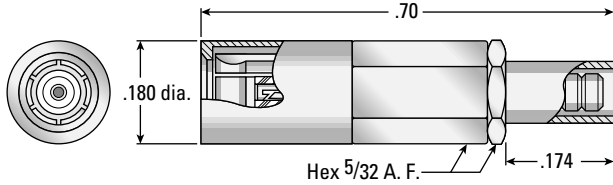
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# SSMB Cable Connectors

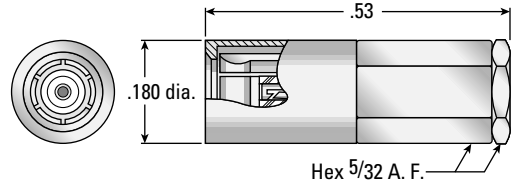
## Straight Cable Plugs

**Crimp type for flexible cable**



**AEP P/N**  
**7202-1572-0XX\***

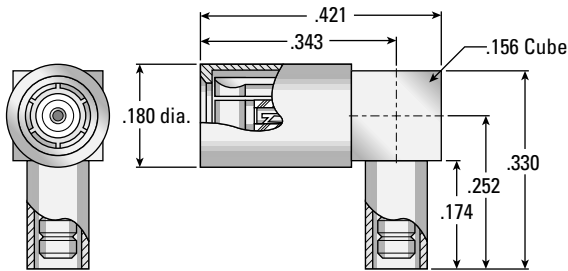
**Solder type for semi-rigid cable**



**AEP P/N**  
**7202-1542-0XX\***

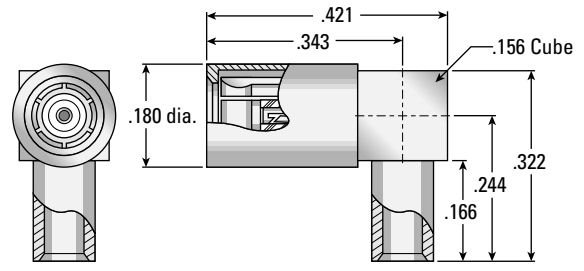
## Right Angle Cable Plugs

**Crimp type for flexible cable**



**AEP P/N**  
**7405-1521-0XX\***

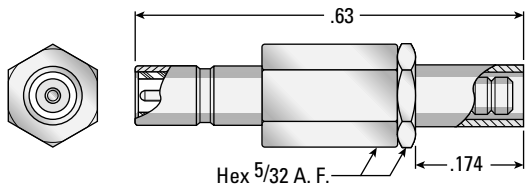
**Solder type for semi-rigid cable**



**AEP P/N**  
**7405-1561-0XX\***

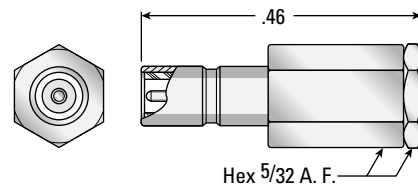
## Straight Cable Jacks

**Crimp type for flexible cable**



**AEP P/N**  
**7201-1571-0XX\***

**Solder type for semi-rigid cable**



**AEP P/N**  
**7201-1541-0XX\***

**\*Substitute the appropriate cable group number for "XX" when ordering:**

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



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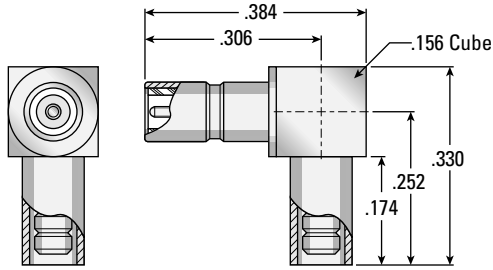
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# SSMB Cable Connectors

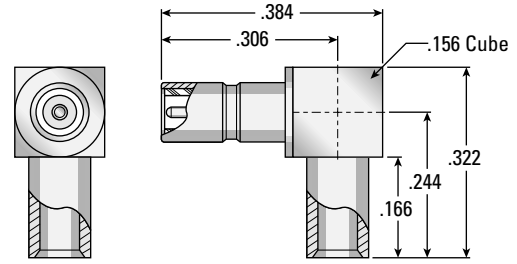
## Right Angle Cable Jacks

### Crimp type for flexible cable



AEP P/N  
7441-1521-0XX\*

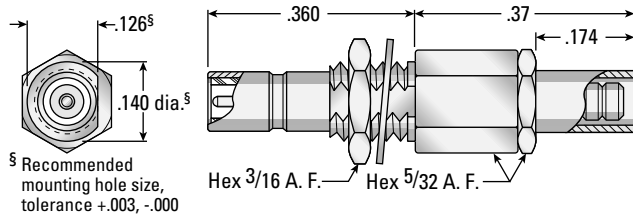
### Solder type for semi-rigid cable



AEP P/N  
7441-1561-0XX\*

## Straight Bulkhead Mounted Cable Jacks (.093" max panel thickness)

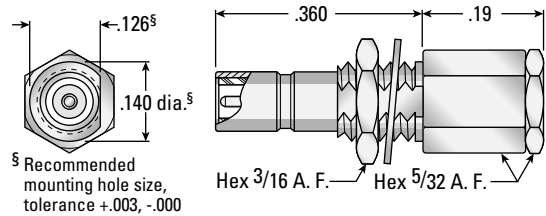
### Crimp type for flexible cable



§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N  
7203-1571-0XX\*

### Solder type for semi-rigid cable

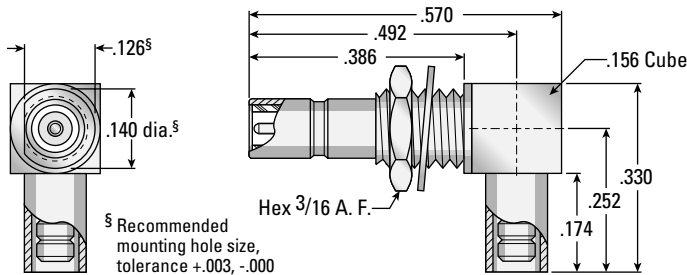


§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N  
7203-1541-0XX\*

## Right Angle Bulkhead Mounted Cable Jacks (.125" max panel thickness)

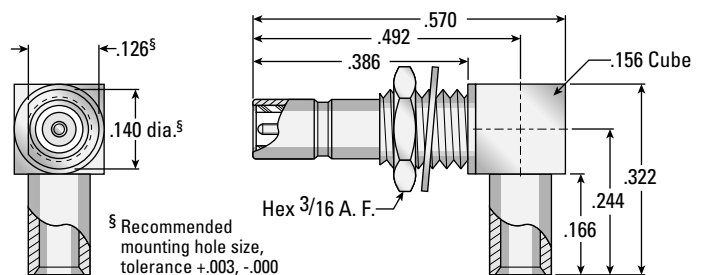
### Crimp type for flexible cable



§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N  
7406-1521-0XX\*

### Solder type for semi-rigid cable



§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N  
7406-1561-0XX\*

These connectors can be supplied with other mating end lengths to accommodate a wide range of panel thicknesses—contact factory for availability.

\*Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



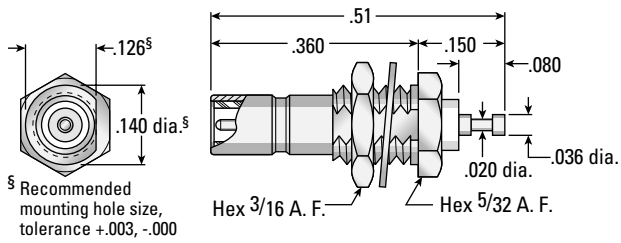
APPLIED ENGINEERING PRODUCTS

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# SSMB Bulkhead Mounted Receptacles

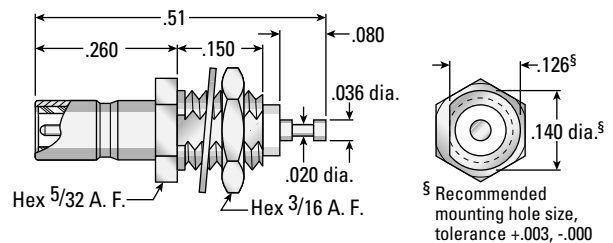
## Straight Bulkhead Jack Receptacles (.093" max panel thickness)

**Rear mount**



**AEP P/N**  
**7204-1511-000**

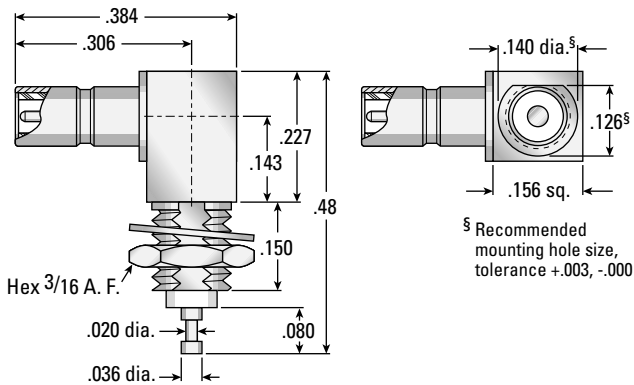
**Front mount**



**AEP P/N**  
**7219-1511-000**

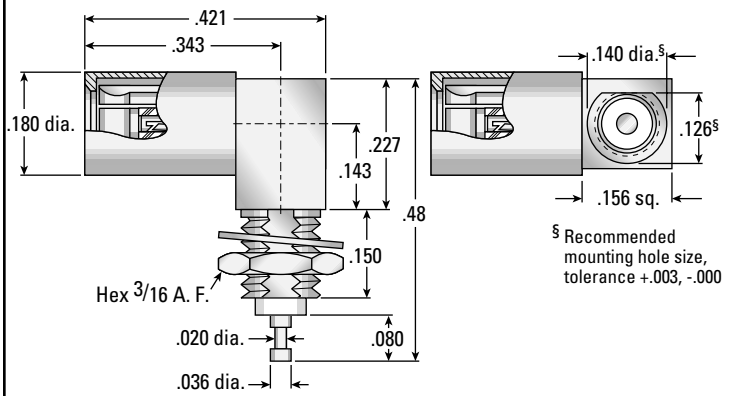
## Right Angle Bulkhead Receptacles (.093" max panel thickness)

**Jack type**



**AEP P/N**  
**7212-1511-000**

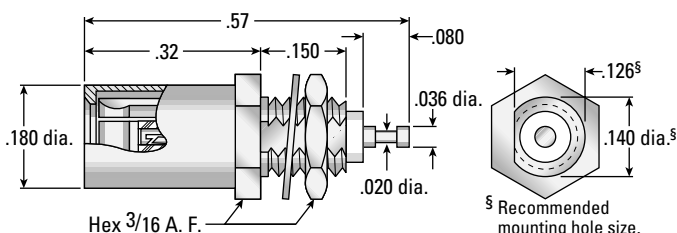
**Plug type**



**AEP P/N**  
**7240-1511-000**

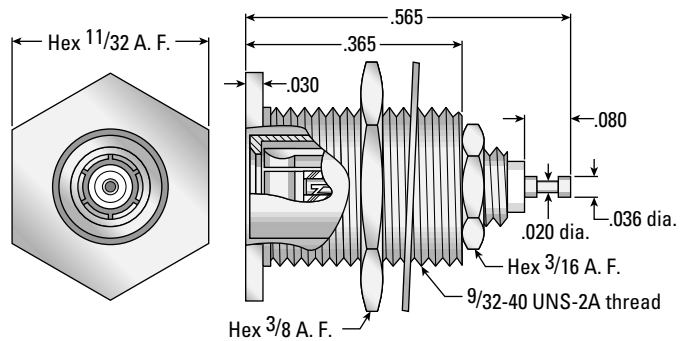
## Straight Bulkhead Plug Receptacles

**Front mount**  
(.093" max panel thickness)



**AEP P/N**  
**7217-1512-000**

**Recessed mount**  
(.200" max panel thickness)



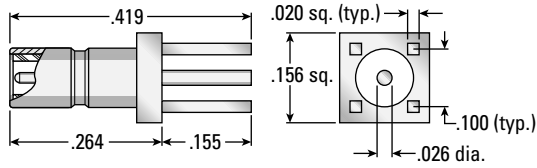
**AEP P/N**  
**7496-1512-000**



# SSMB P.C. Board Receptacles

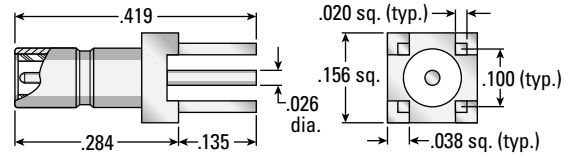
## Straight P.C. Board Receptacles

### Standard legs



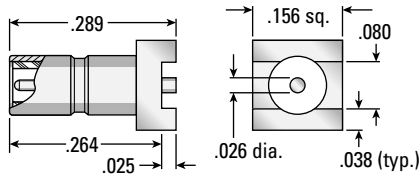
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7209-1511-000	PRETINNED	7209-1511-012

### Standoff legs



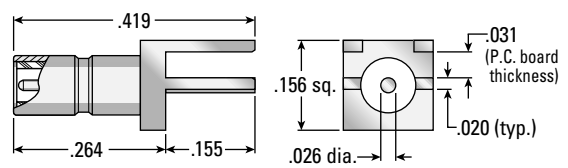
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7209-1511-011	PRETINNED	7209-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7209-1511-015

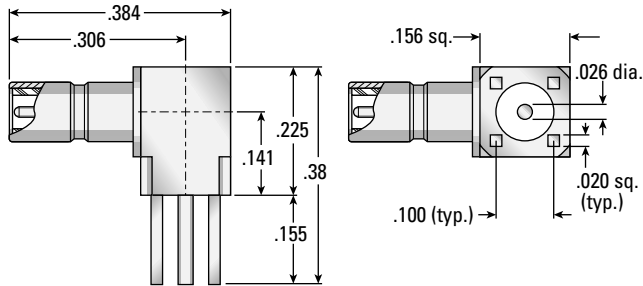
### Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7209-1511-023	PRETINNED	7209-1511-061

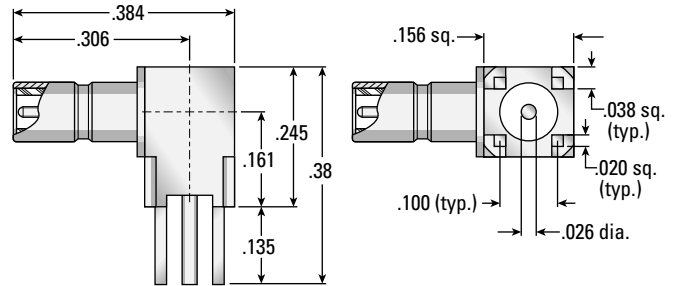
## Right Angle P.C. Board Receptacles

### Standard legs



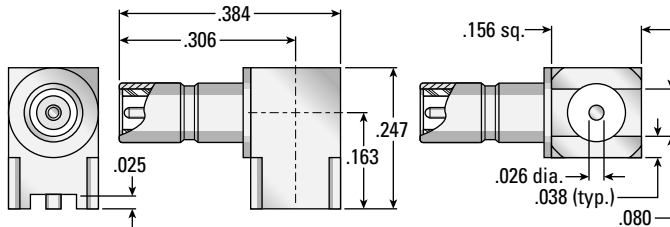
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7210-1511-000	PRETINNED	7210-1511-012

### Standoff legs



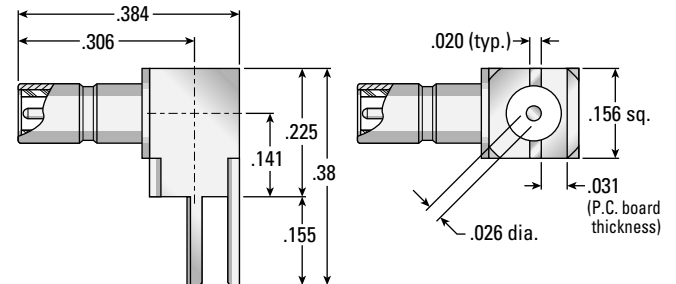
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7210-1511-050	PRETINNED	7210-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7210-1511-015

### Edge mount



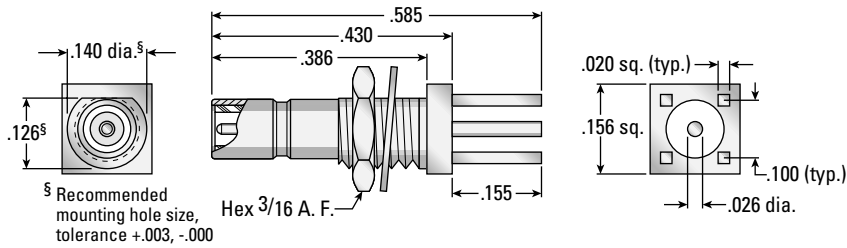
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7210-1511-060	PRETINNED	7210-1511-061



# SSMB P.C. Board Receptacles

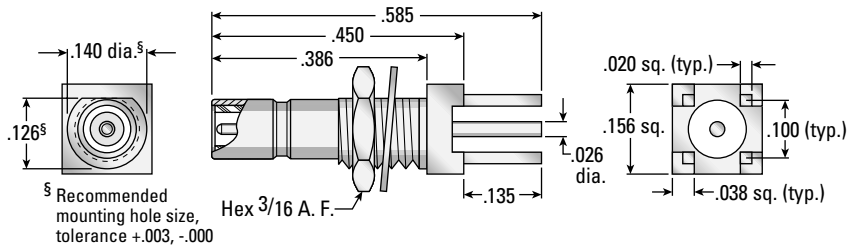
Straight Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

## Standard legs



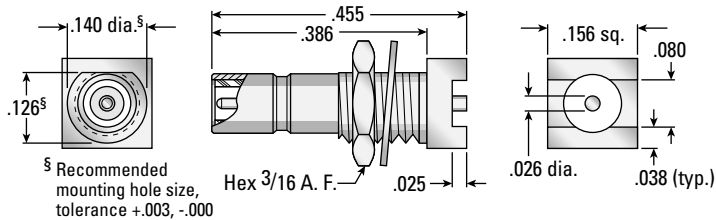
LEG FINISH	AEP P/N
GOLD	7229-1511-000
PRETINNED	7229-1511-012

## Standoff legs



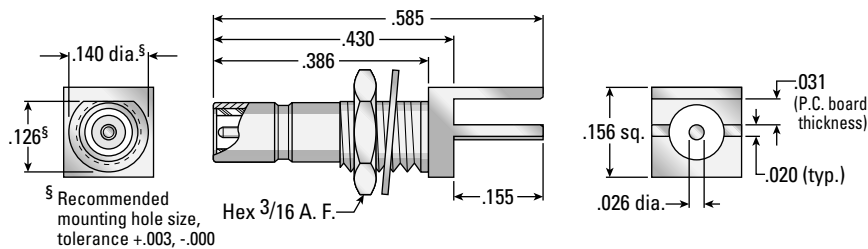
LEG FINISH	AEP P/N
GOLD	7229-1511-050
PRETINNED	7229-1511-040

## Surface mount



LEG FINISH	AEP P/N
GOLD	7229-1511-015

## Edge mount



LEG FINISH	AEP P/N
GOLD	7229-1511-060
PRETINNED	7229-1511-061



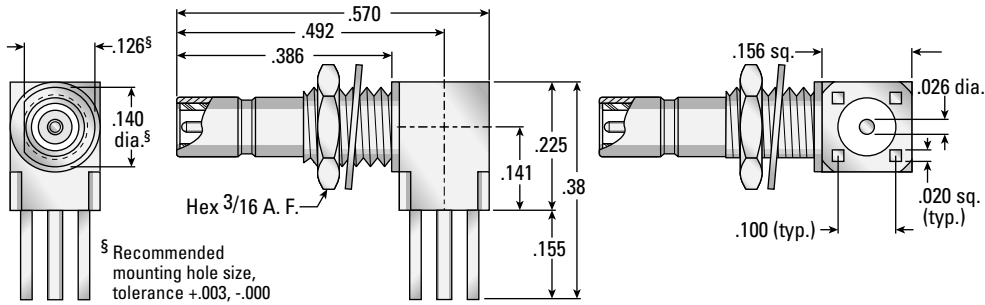
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# SSMB P.C. Board Receptacles

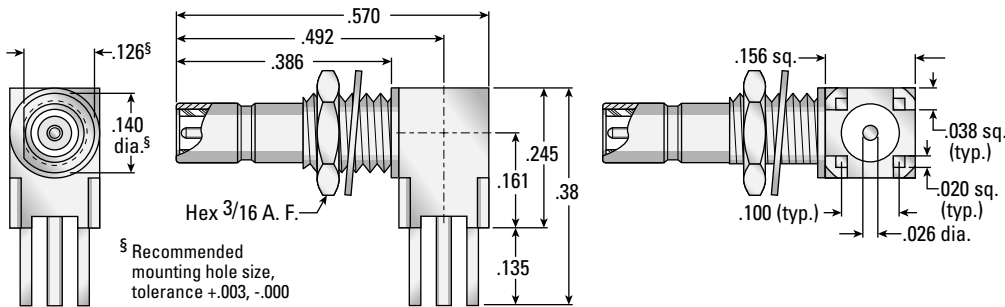
Right Angle Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

## Standard legs



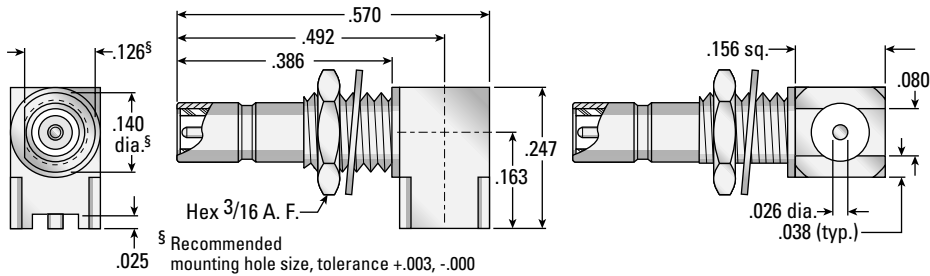
LEG FINISH	AEP P/N
GOLD	7410-1511-000
PRETINNED	7410-1511-012

## Standoff legs



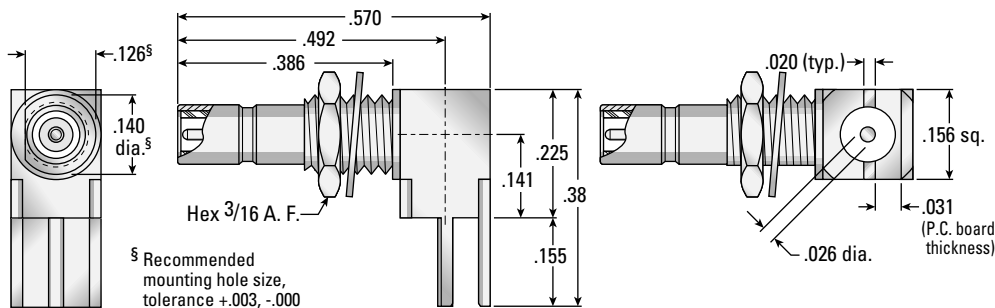
LEG FINISH	AEP P/N
GOLD	7410-1511-050
PRETINNED	7410-1511-040

## Surface mount



LEG FINISH	AEP P/N
GOLD	7410-1511-015

## Edge mount



LEG FINISH	AEP P/N
GOLD	7410-1511-060
PRETINNED	7410-1511-061



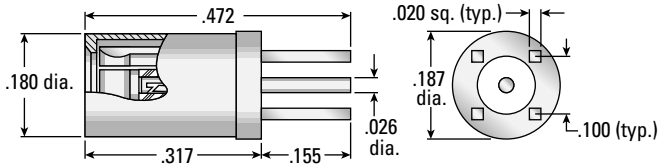
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# SSMB P.C. Board Receptacles

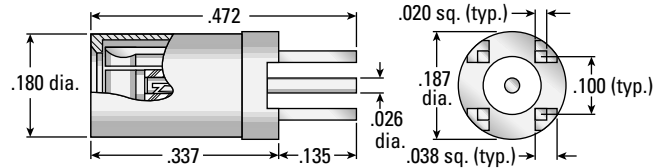
## Straight Plug Type P.C. Board Receptacles

### Standard legs



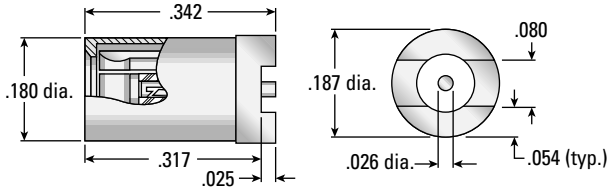
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7225-1512-000	PRETINNED	7225-1512-012

### Standoff legs



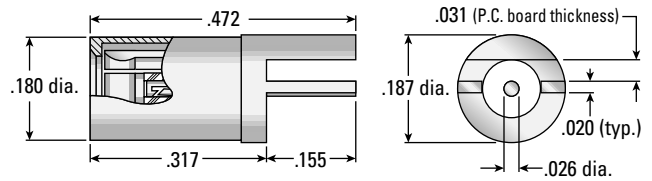
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7225-1512-050	PRETINNED	7225-1512-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7225-1512-015

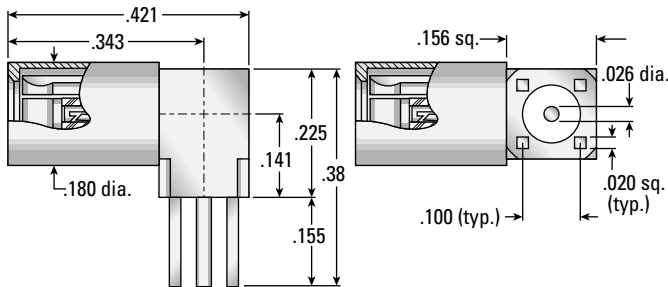
### Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7225-1512-060	PRETINNED	7225-1512-061

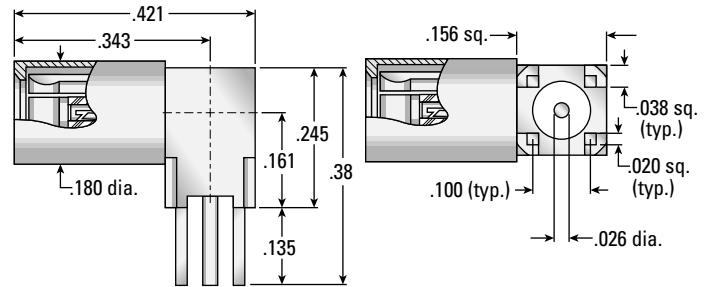
## Right Angle Plug Type P.C. Board Receptacles

### Standard legs



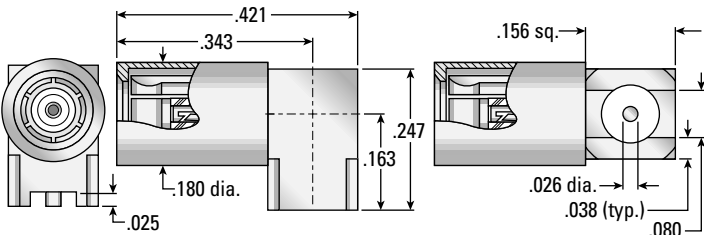
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7242-1511-000	PRETINNED	7242-1511-012

### Standoff legs



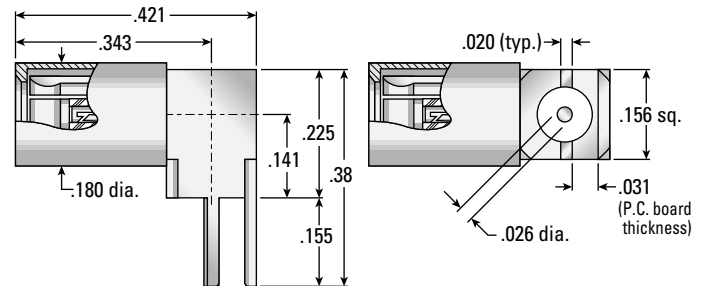
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7242-1511-050	PRETINNED	7242-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7242-1511-015

### Edge mount



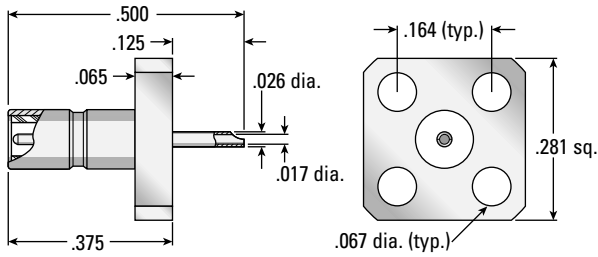
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7242-1511-060	PRETINNED	7242-1511-061



# SSMB Receptacles and Adapters

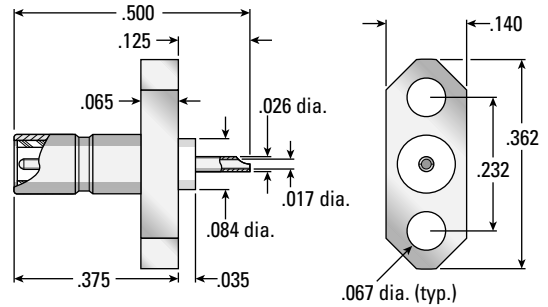
## Straight Panel Jack Receptacle (Stainless steel bodies)

### 4-hole flange



**AEP P/N**  
**7498-1513-000**

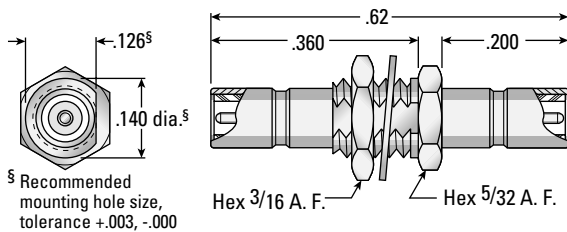
### 2-hole flange



**AEP P/N**  
**7499-1513-000**

## Bulkhead Mounted Adapters

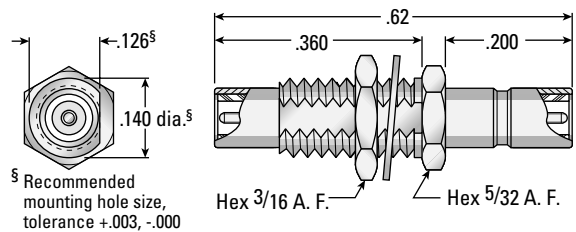
### SSMB jack to SSMB jack



§ Recommended mounting hole size, tolerance +.003, -.000

**AEP P/N**  
**7222-1501-000**

### SSMC jack to SSMB jack

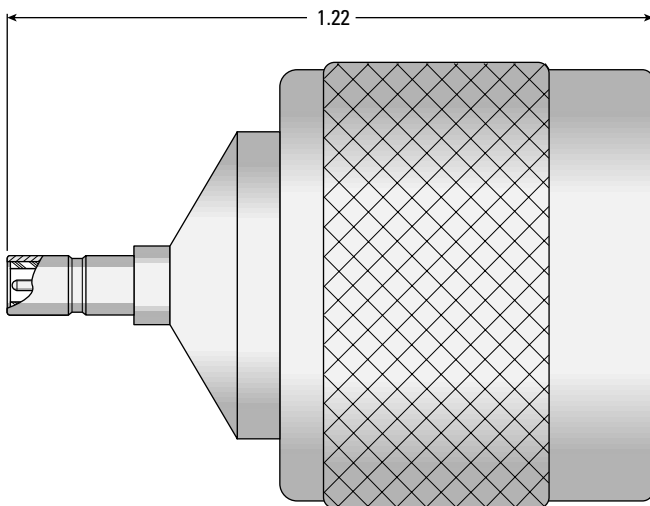


§ Recommended mounting hole size, tolerance +.003, -.000

**AEP P/N**  
**7022-1502-000**

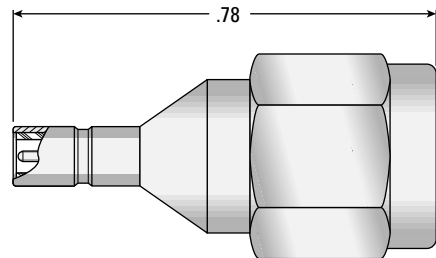
## Adapters Between Series

### N plug to SSMB jack



**AEP P/N**  
**5011-1503-000**

### SMA plug to SSMB jack



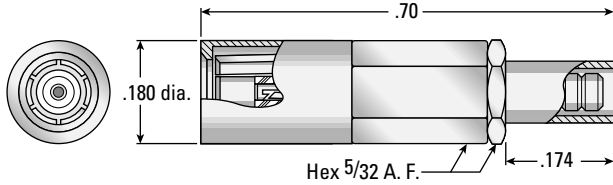
**AEP P/N**  
**5937-1503-000**



# SSLB Cable Connectors

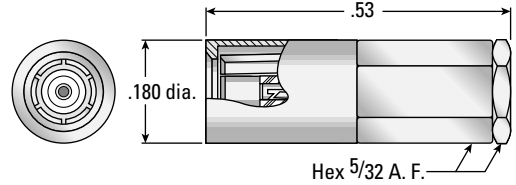
## Straight Cable Plugs

**Crimp type for flexible cable**



**AEP P/N**  
**7302-1572-0XX\***

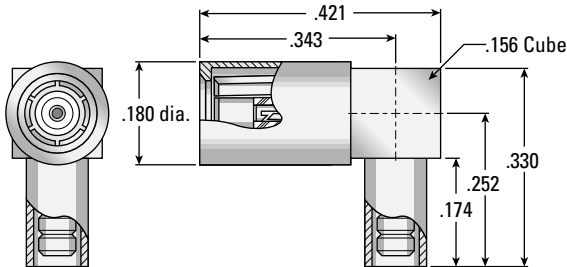
**Solder type for semi-rigid cable**



**AEP P/N**  
**7302-1542-0XX\***

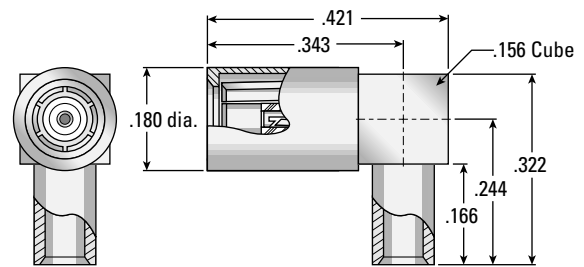
## Right Angle Cable Plugs

**Crimp type for flexible cable**



**AEP P/N**  
**7305-1521-0XX\***

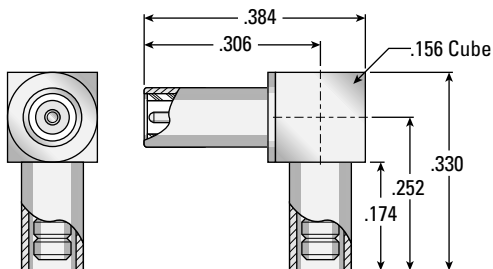
**Solder type for semi-rigid cable**



**AEP P/N**  
**7305-1561-0XX\***

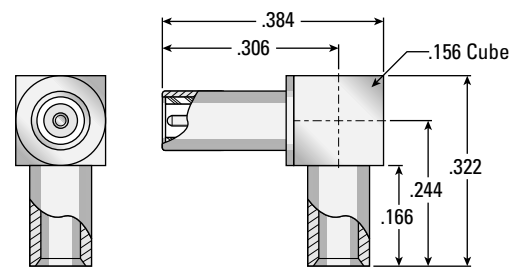
## Right Angle Cable Jacks

**Crimp type for flexible cable**



**AEP P/N**  
**7341-1521-0XX\***

**Solder type for semi-rigid cable**



**AEP P/N**  
**7341-1561-0XX\***

**\*Substitute the appropriate cable group number for "XX" when ordering:**

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



**APPLIED ENGINEERING PRODUCTS**

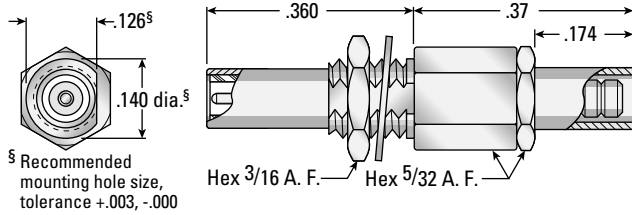
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# SSLB Cable Connectors

## Straight Bulkhead Mounted Cable Jacks (.093" max panel thickness)

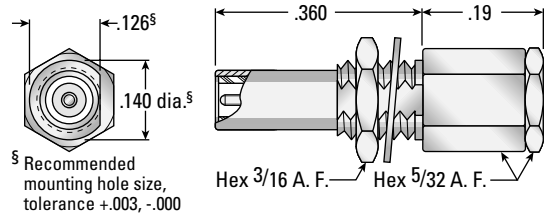
### Crimp type for flexible cable



§ Recommended mounting hole size, tolerance +.003, -.000

**AEP P/N**  
**7303-1571-0XX\***

### Solder type for semi-rigid cable

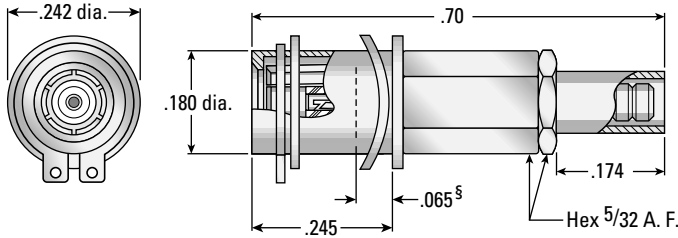


§ Recommended mounting hole size, tolerance +.003, -.000

**AEP P/N**  
**7303-1541-0XX\***

## Vibration-Proof Float Mounted Plug (See page 2 for details)

### Straight—crimp type for flexible cable

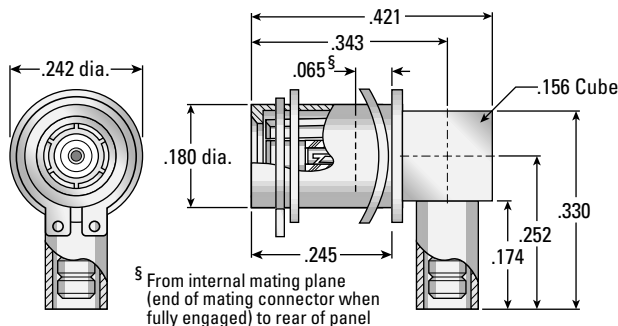


§ From internal mating plane (end of mating connector when fully engaged) to rear of panel

PANEL THICKNESS	AEP P/N
.050	7332-1572-0XX*
.093	7332-1572-3XX*

## Vibration-Proof Float Mounted Plug (See page 2 for details)

### Right angle—crimp type for flexible cable



§ From internal mating plane (end of mating connector when fully engaged) to rear of panel

PANEL THICKNESS	AEP P/N
.050	7335-1521-0XX*
.093	7335-1521-3XX*

**\*Substitute the appropriate cable group number for "XX" when ordering:**

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133		
		11	.047" semi-rigid, M17/151	21	.056" semi-rigid

Cable assembly instructions are shipped with each connector.



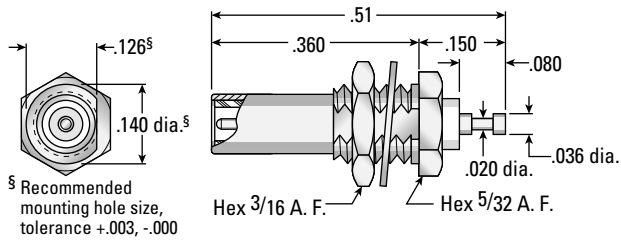
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# SSLB Bulkhead Mounted Receptacles

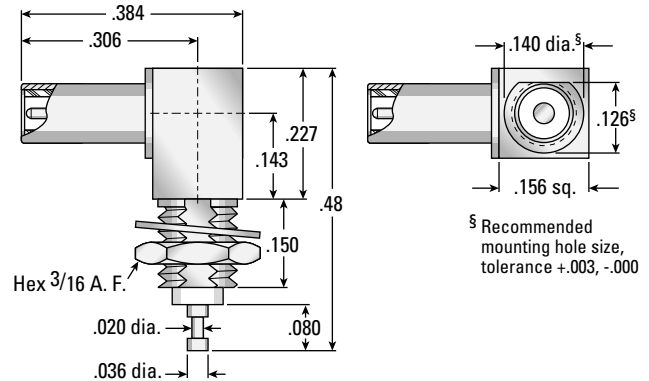
## Bulkhead Jack Receptacles (.093" max panel thickness)

### Straight



**AEP P/N**  
**7304-1511-000**

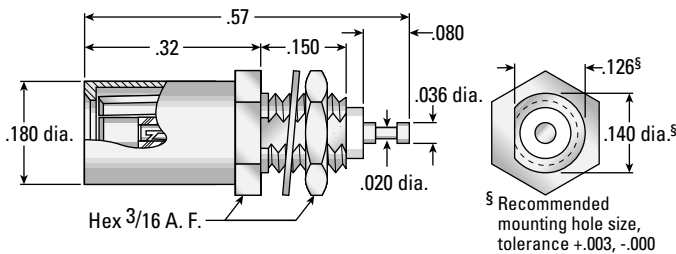
### Right angle



**AEP P/N**  
**7312-1511-000**

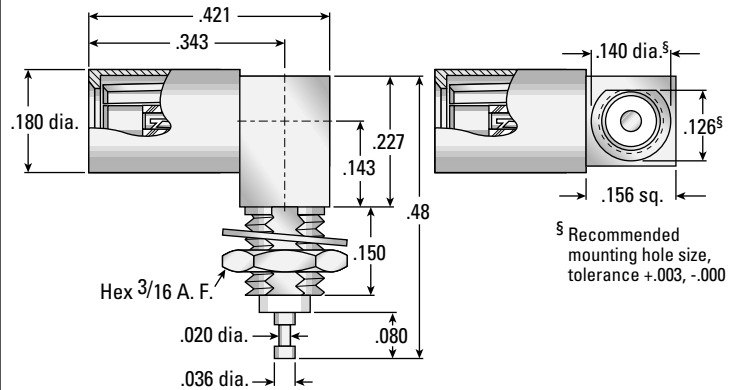
## Bulkhead Plug Receptacles (.093" max panel thickness)

### Straight



**AEP P/N**  
**7317-1512-000**

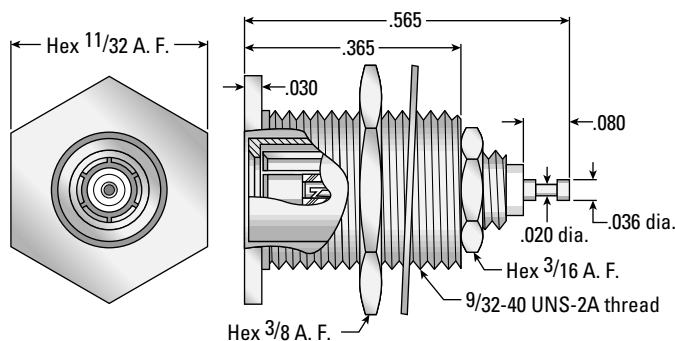
### Right angle



**AEP P/N**  
**7340-1511-000**

## Straight Bulkhead Plug Receptacle (.250" max panel thickness)

### Recessed mount



**AEP P/N**  
**7396-1512-000**



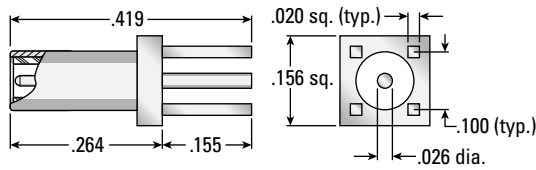
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# SSLB P.C. Board Receptacles

## Straight P.C. Board Receptacles

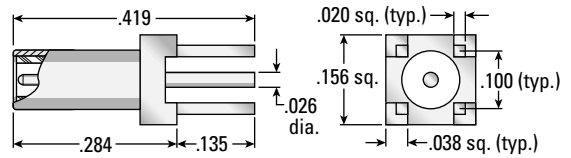
### Standard legs



LEG FINISH	AEP P/N
GOLD	7309-1511-000

LEG FINISH	AEP P/N
PRETINNED	7309-1511-012

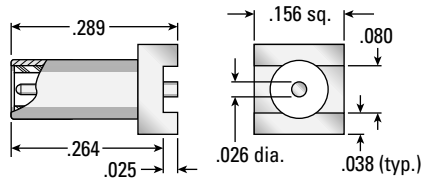
### Standoff legs



LEG FINISH	AEP P/N
GOLD	7309-1511-050

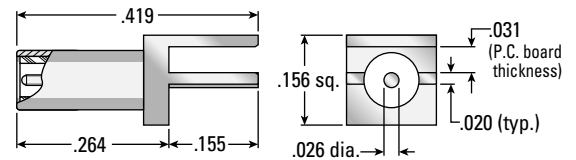
LEG FINISH	AEP P/N
PRETINNED	7309-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7309-1511-015

### Edge mount

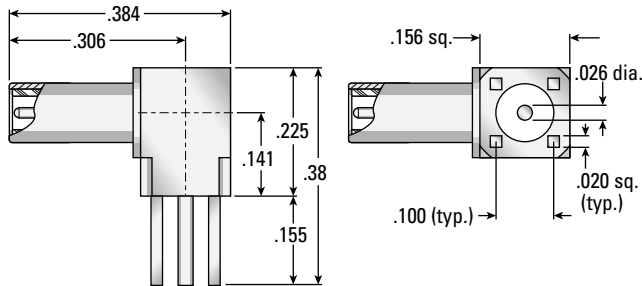


LEG FINISH	AEP P/N
GOLD	7309-1511-060

LEG FINISH	AEP P/N
PRETINNED	7309-1511-061

## Right Angle P.C. Board Receptacles

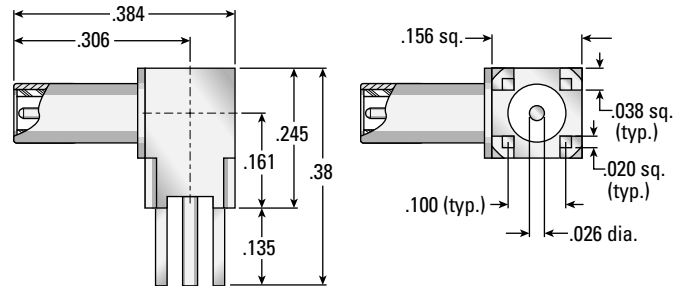
### Standard legs



LEG FINISH	AEP P/N
GOLD	7310-1511-000

LEG FINISH	AEP P/N
PRETINNED	7310-1511-012

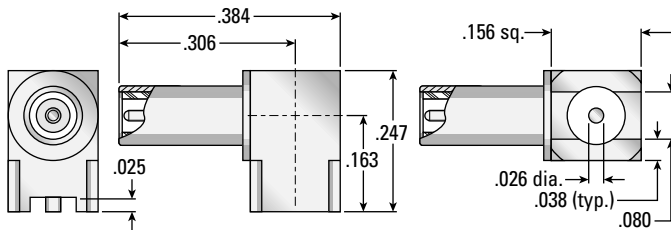
### Standoff legs



LEG FINISH	AEP P/N
GOLD	7310-1511-050

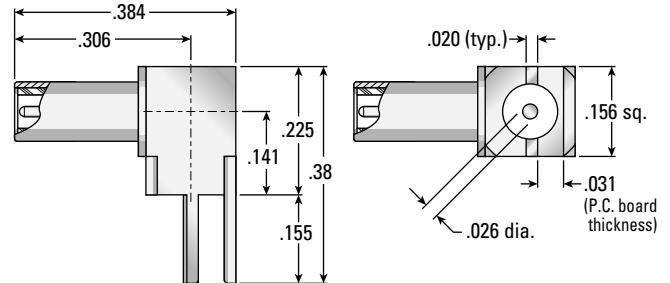
LEG FINISH	AEP P/N
PRETINNED	7310-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7310-1511-015

### Edge mount



LEG FINISH	AEP P/N
GOLD	7310-1511-060

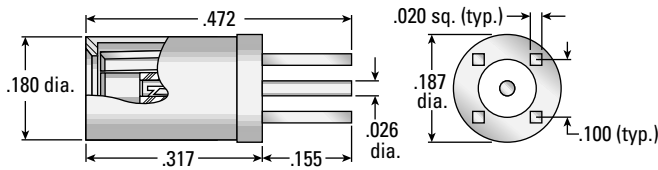
LEG FINISH	AEP P/N
PRETINNED	7310-1511-061



# SSLB P.C. Board Receptacles

## Straight Plug Type P.C. Board Receptacles

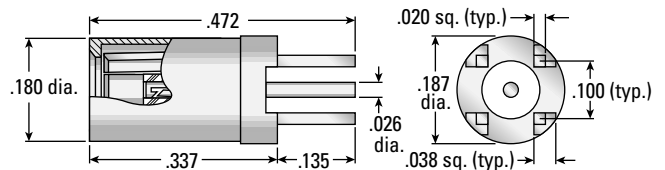
### Standard legs



LEG FINISH	AEP P/N
GOLD	7325-1512-000

LEG FINISH	AEP P/N
PRETINNED	7325-1512-012

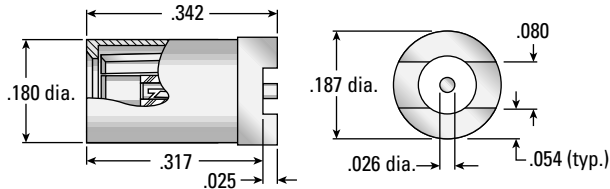
### Standoff legs



LEG FINISH	AEP P/N
GOLD	7325-1512-050

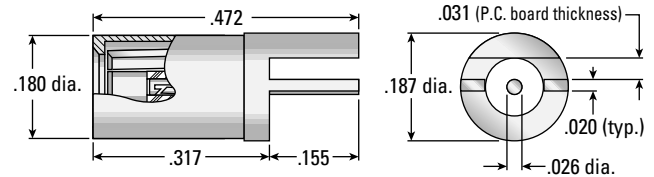
LEG FINISH	AEP P/N
PRETINNED	7325-1512-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7325-1512-015

### Edge mount

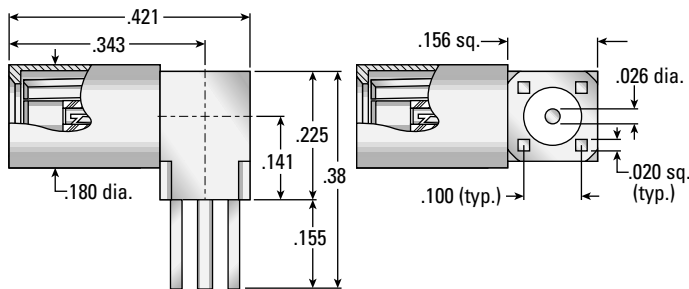


LEG FINISH	AEP P/N
GOLD	7325-1512-060

LEG FINISH	AEP P/N
PRETINNED	7325-1512-061

## Right Angle Plug Type P.C. Board Receptacles

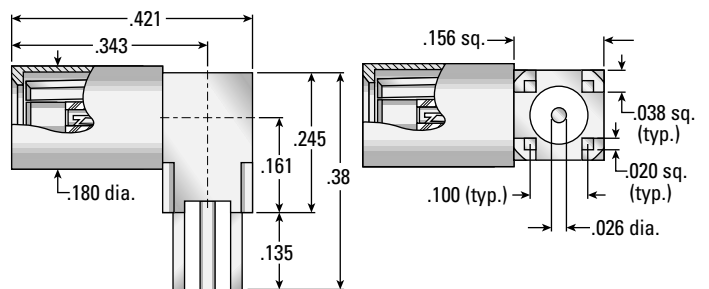
### Standard legs



LEG FINISH	AEP P/N
GOLD	7342-1511-000

LEG FINISH	AEP P/N
PRETINNED	7342-1511-012

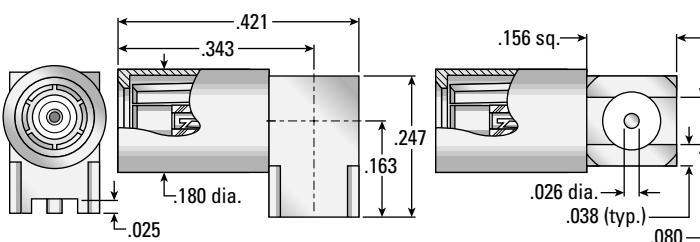
### Standoff legs



LEG FINISH	AEP P/N
GOLD	7342-1511-050

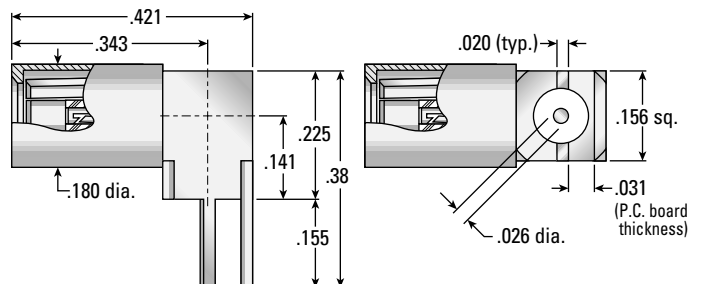
LEG FINISH	AEP P/N
PRETINNED	7342-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7342-1511-015

### Edge mount



LEG FINISH	AEP P/N
GOLD	7342-1511-060

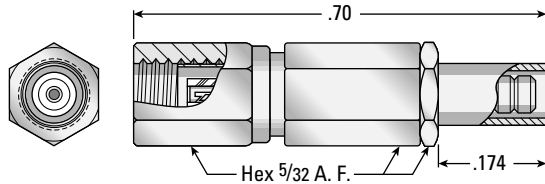
LEG FINISH	AEP P/N
PRETINNED	7342-1511-061



# SSMC Cable Connectors

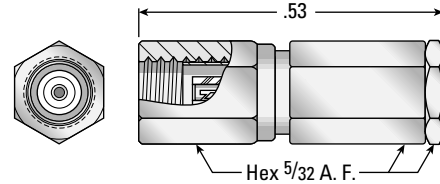
## Straight Cable Plugs

**Crimp type for flexible cable**



**AEP P/N**  
**7002-1572-0XX\***

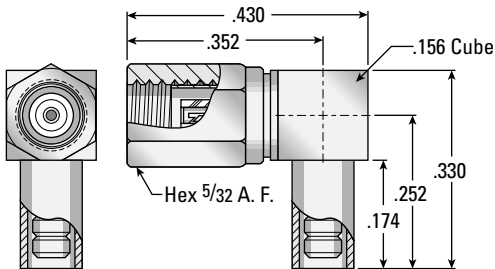
**Solder type for semi-rigid cable**



**AEP P/N**  
**7002-1542-0XX\***

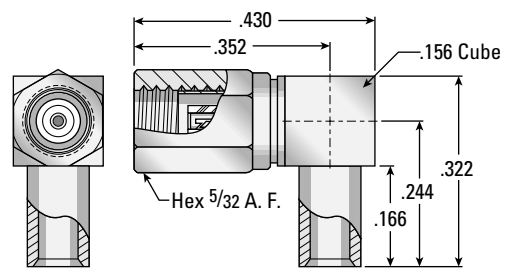
## Right Angle Cable Plugs

**Crimp type for flexible cable**



**AEP P/N**  
**7105-1521-0XX\***

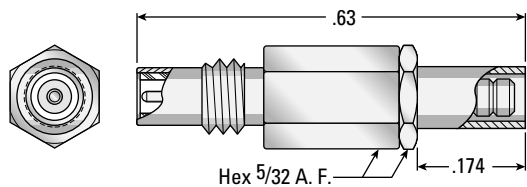
**Solder type for semi-rigid cable**



**AEP P/N**  
**7105-1561-0XX\***

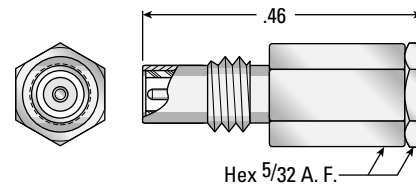
## Straight Cable Jacks

**Crimp type for flexible cable**



**AEP P/N**  
**7101-1571-0XX\***

**Solder type for semi-rigid cable**



**AEP P/N**  
**7101-1541-0XX\***

**\*Substitute the appropriate cable group number for "XX" when ordering:**

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



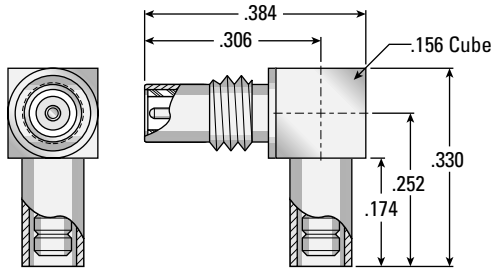
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# SSMC Cable Connectors

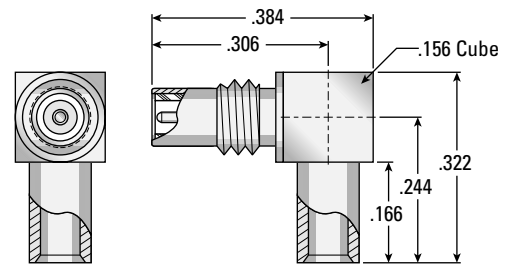
## Right Angle Cable Jacks

### Crimp type for flexible cable



AEP P/N  
7141-1521-0XX\*

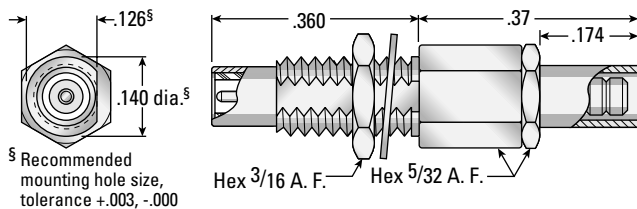
### Solder type for semi-rigid cable



AEP P/N  
7141-1561-0XX\*

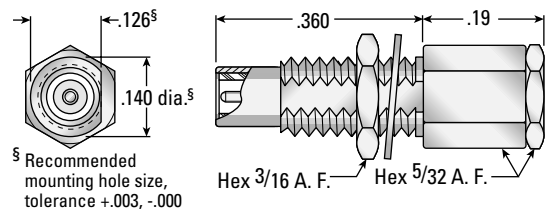
## Straight Bulkhead Mounted Cable Jacks (.093" max panel thickness)

### Crimp type for flexible cable



AEP P/N  
7003-1572-0XX\*

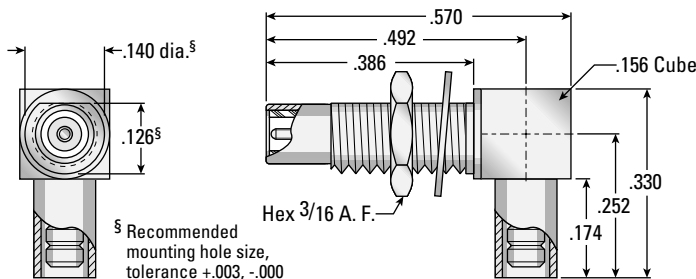
### Solder type for semi-rigid cable



AEP P/N  
7003-1542-0XX\*

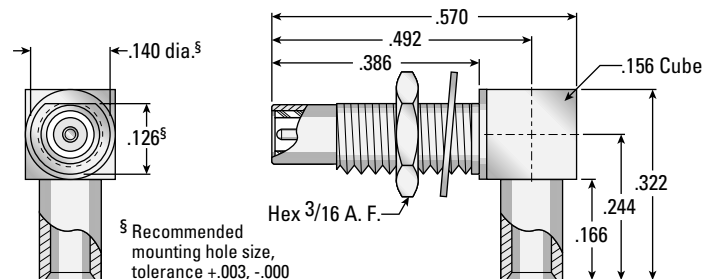
## Right Angle Bulkhead Mounted Cable Jacks (.125" max panel thickness)

### Crimp type for flexible cable



AEP P/N  
7106-1521-0XX\*

### Solder type for semi-rigid cable



AEP P/N  
7106-1561-0XX\*

\*Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



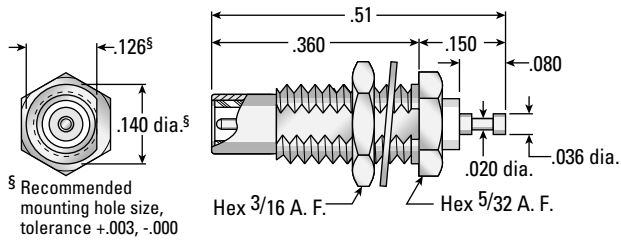
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# SSMC Bulkhead Mounted Receptacles

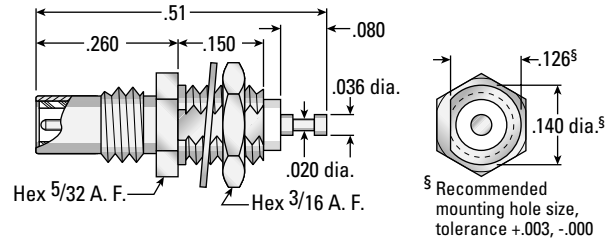
## Straight Bulkhead Jack Receptacles (.093" max panel thickness)

**Rear mount**



**AEP P/N**  
**7004-1512-000**

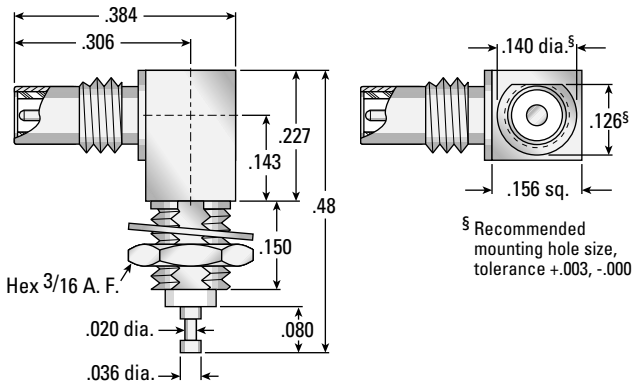
**Front mount**



**AEP P/N**  
**7119-1512-000**

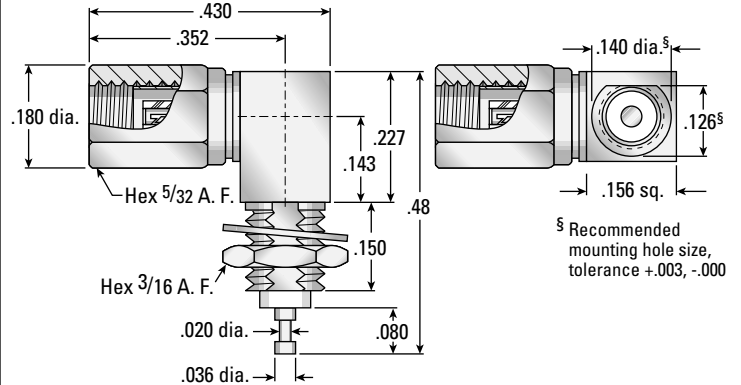
## Right Angle Bulkhead Receptacles (.093" max panel thickness)

**Jack type**



**AEP P/N**  
**7012-1511-000**

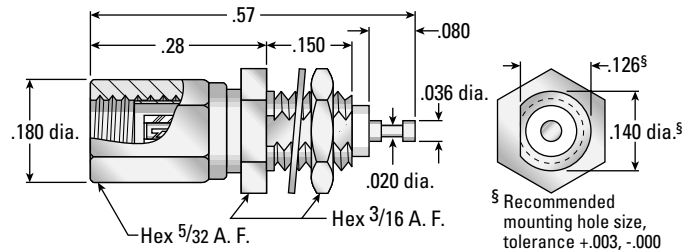
**Plug type**



**AEP P/N**  
**7040-1511-000**

## Straight Bulkhead Plug Receptacle

**Front mount (.093" max panel thickness)**



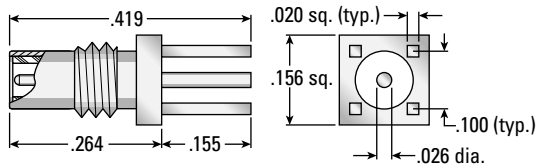
**AEP P/N**  
**7017-1512-000**



# SSMC P.C. Board Receptacles

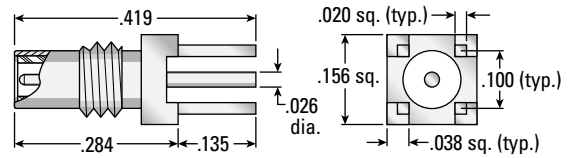
## Straight P.C. Board Receptacles

### Standard legs



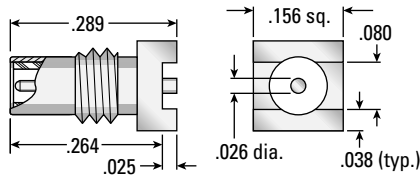
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7009-1511-000	PRETINNED	7009-1511-040

### Standoff legs



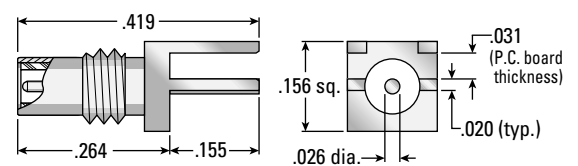
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7009-1511-050	PRETINNED	7009-1511-041

### Surface mount



LEG FINISH	AEP P/N
GOLD	7009-1511-004

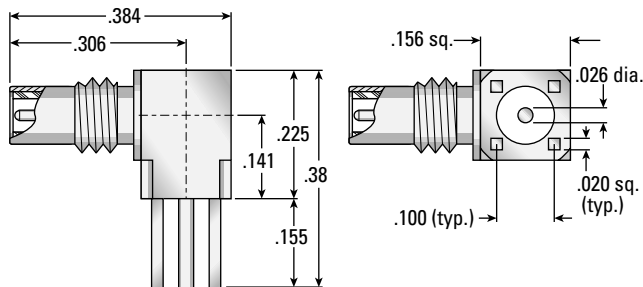
### Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7009-1511-005	PRETINNED	7009-1511-061

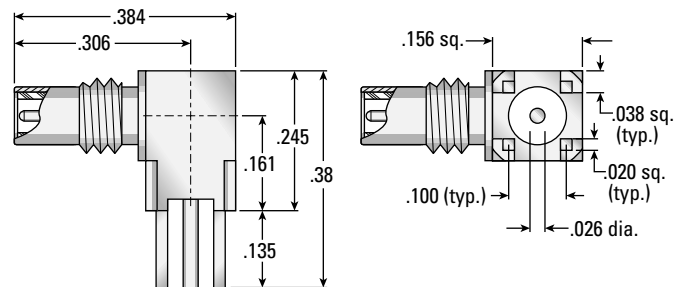
## Right Angle P.C. Board Receptacles

### Standard legs



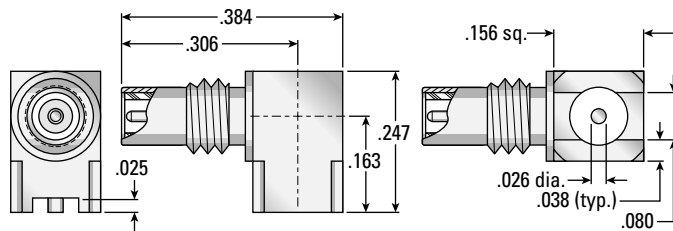
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7010-1511-000	PRETINNED	7010-1511-040

### Standoff legs



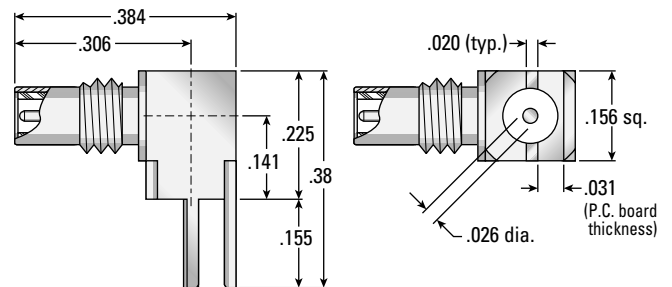
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7010-1511-050	PRETINNED	7010-1511-041

### Surface mount



LEG FINISH	AEP P/N
GOLD	7010-1511-015

### Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7010-1511-060	PRETINNED	7010-1511-061

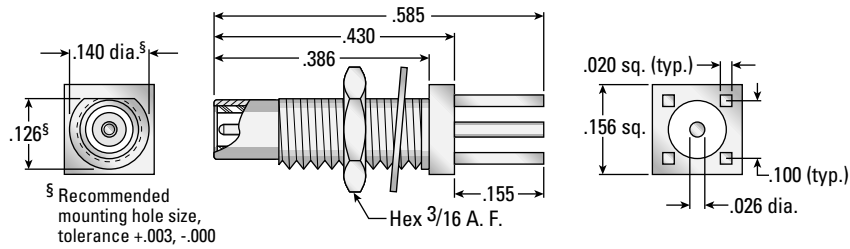




# SSMC P.C. Board Receptacles

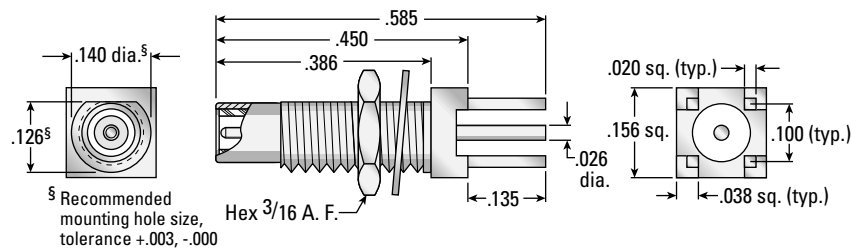
Straight Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

## Standard legs



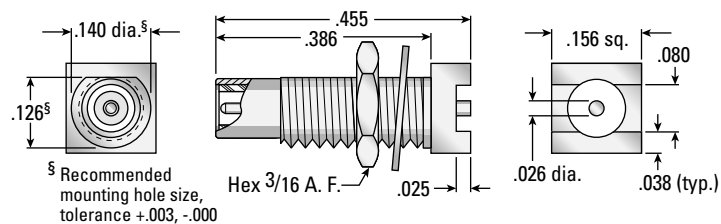
LEG FINISH	AEP P/N
GOLD	7029-1511-000
PRETINNED	7029-1511-012

## Standoff legs



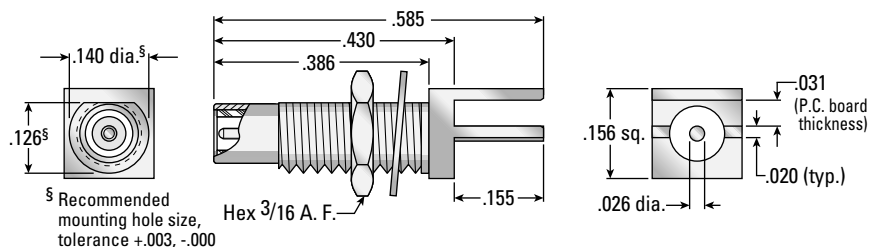
LEG FINISH	AEP P/N
GOLD	7029-1511-050
PRETINNED	7029-1511-040

## Surface mount



LEG FINISH	AEP P/N
GOLD	7029-1511-015

## Edge mount



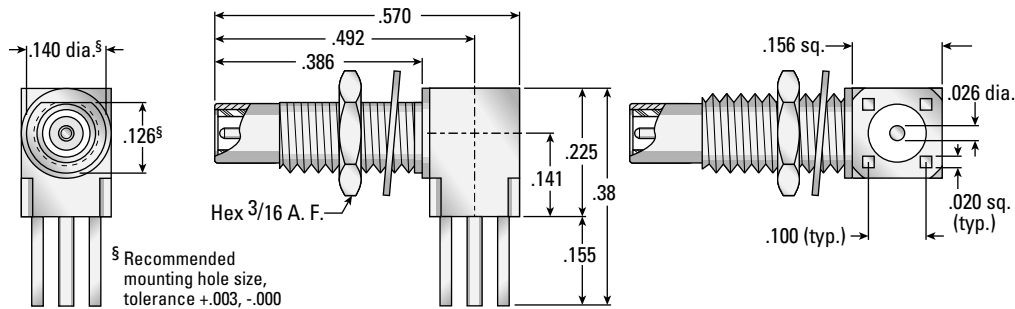
LEG FINISH	AEP P/N
GOLD	7029-1511-060
PRETINNED	7029-1511-061



# SSMC P.C. Board Receptacles

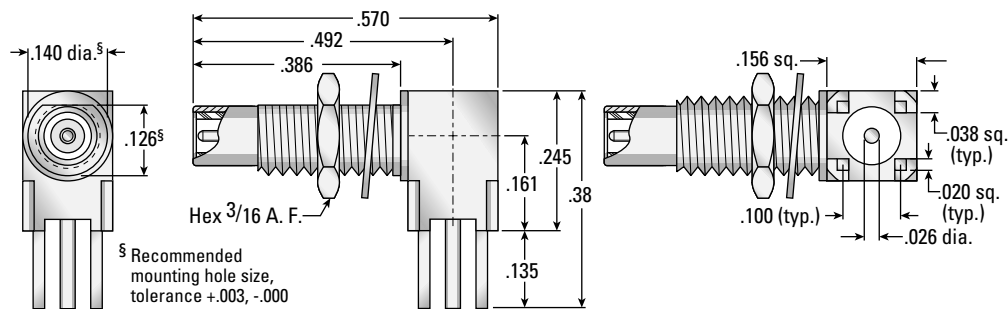
Right Angle Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

## Standard legs



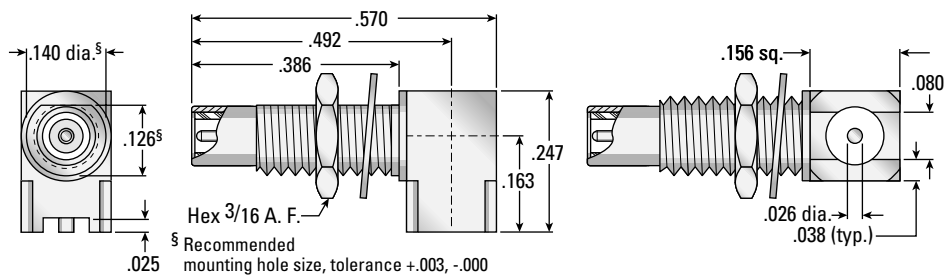
LEG FINISH	AEP P/N
GOLD	7110-1511-000
PRETINNED	7110-1511-012

## Standoff legs



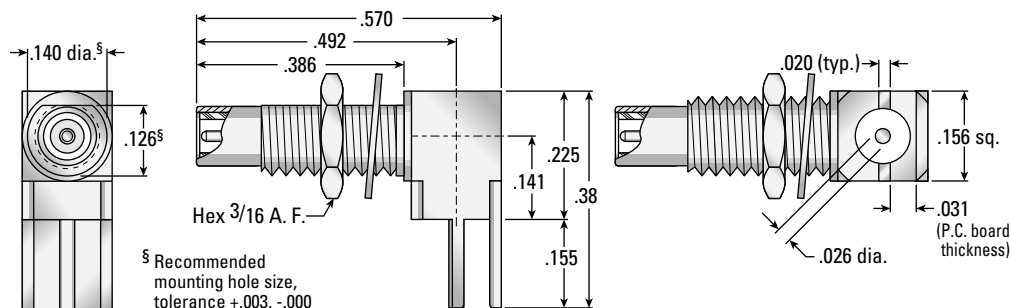
LEG FINISH	AEP P/N
GOLD	7110-1511-050
PRETINNED	7110-1511-040

## Surface mount



LEG FINISH	AEP P/N
GOLD	7110-1511-015

## Edge mount



LEG FINISH	AEP P/N
GOLD	7110-1511-060
PRETINNED	7110-1511-061



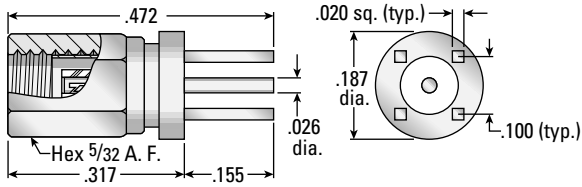
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# SSMC P.C. Board Receptacles

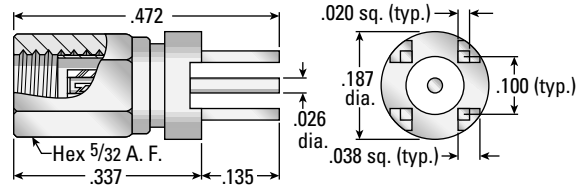
## Straight Plug Type P.C. Board Receptacles

### Standard legs



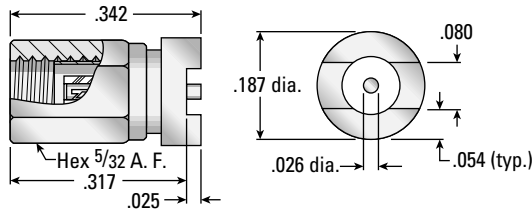
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7025-1512-000	PRETINNED	7025-1512-012

### Standoff legs



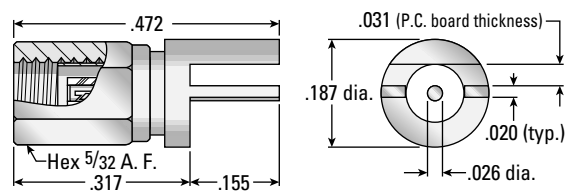
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7025-1512-050	PRETINNED	7025-1512-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7025-1512-015

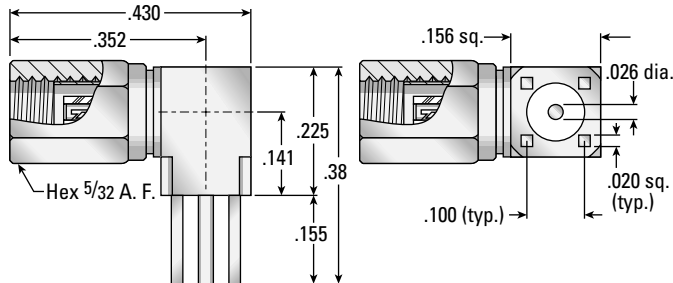
### Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7025-1512-060	PRETINNED	7025-1512-061

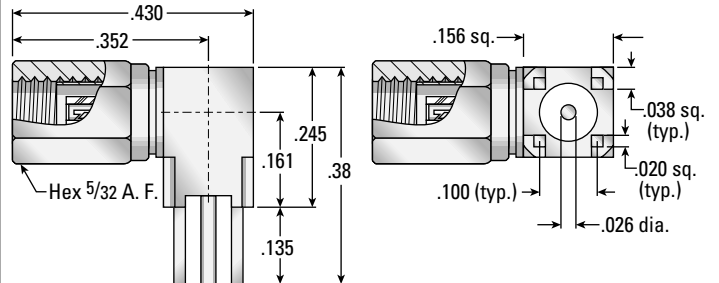
## Right Angle Plug Type P.C. Board Receptacles

### Standard legs



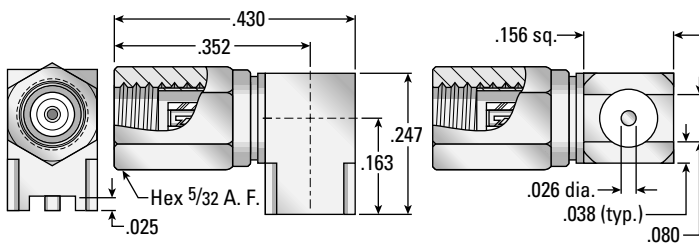
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7042-1511-000	PRETINNED	7042-1511-012

### Standoff legs



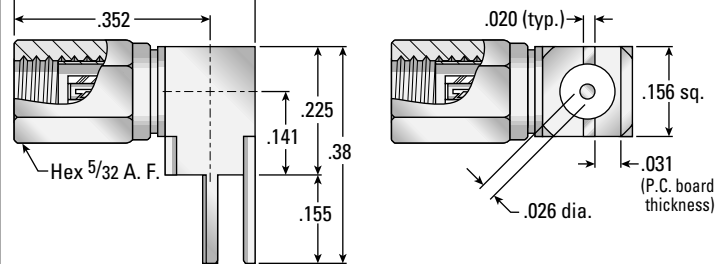
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7042-1511-050	PRETINNED	7042-1511-040

### Surface mount



LEG FINISH	AEP P/N
GOLD	7042-1511-015

### Edge mount



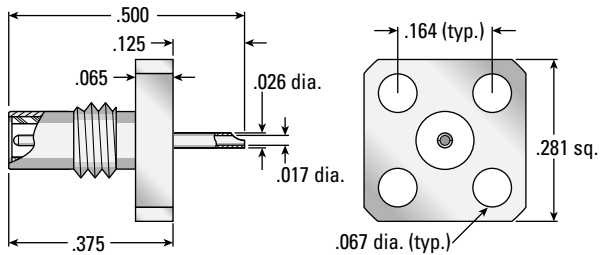
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7042-1511-060	PRETINNED	7042-1511-061



# SSMC Receptacles and Adapters

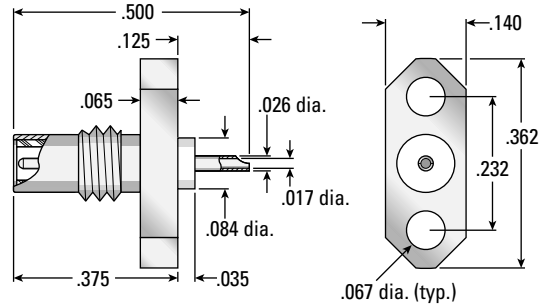
## Straight Panel Jack Receptacle (Stainless steel bodies)

**4-hole flange**



**AEP P/N**  
**7198-1513-000**

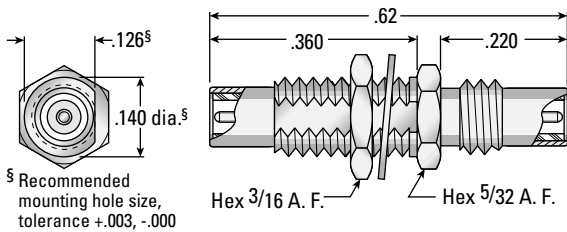
**2-hole flange**



**AEP P/N**  
**7100-1513-000**

## Bulkhead Mounted Adapters

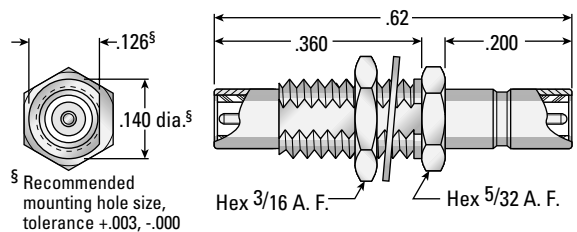
**SSMC jack to SSMC jack**



<sup>§</sup> Recommended mounting hole size, tolerance +.003, -.000

**AEP P/N**  
**7122-1502-000**

**SSMC jack to SSMB jack**

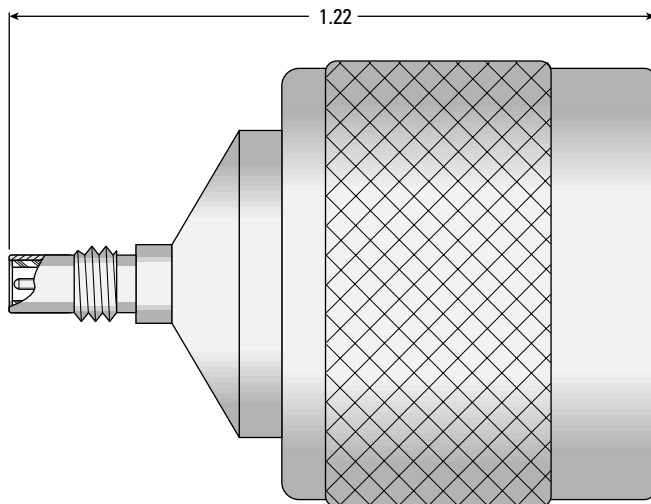


<sup>§</sup> Recommended mounting hole size, tolerance +.003, -.000

**AEP P/N**  
**7022-1502-000**

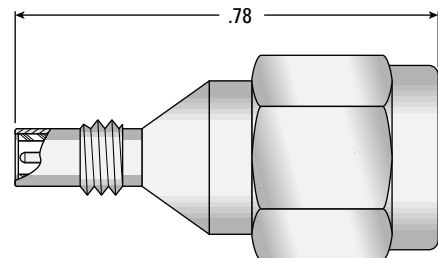
## Adapters Between Series

**N plug to SSMC jack**



**AEP P/N**  
**5013-1503-000**

**SMA plug to SSMC jack**



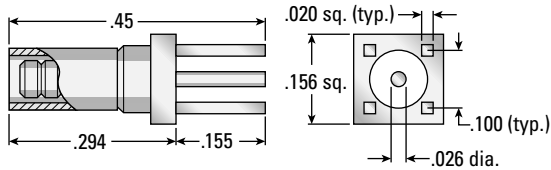
**AEP P/N**  
**5938-1503-000**



# P.C. Board Cable Terminations

## Straight P.C. Board Cable Terminations

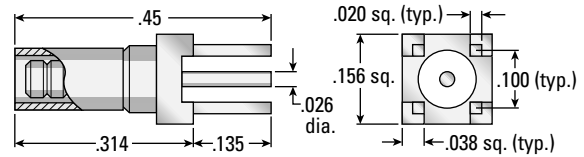
### Standard legs



LEG FINISH	AEP P/N
GOLD	7146-1521-0XX

LEG FINISH	AEP P/N
PRETINNED	7146-1521-1XX

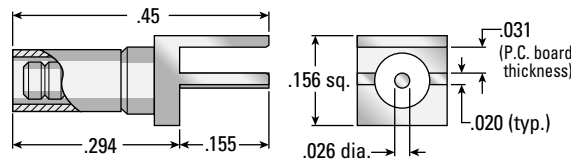
### Standoff legs



LEG FINISH	AEP P/N
GOLD	7146-1521-2XX

LEG FINISH	AEP P/N
PRETINNED	7146-1521-3XX

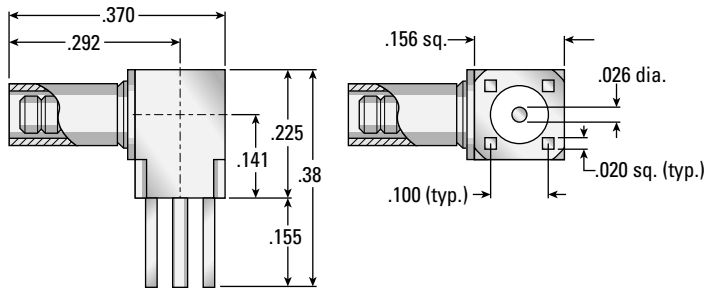
### Edge mount



LEG FINISH	AEP P/N
GOLD	7146-1521-4XX
PRETINNED	7146-1521-5XX

## Right Angle P.C. Board Cable Terminations

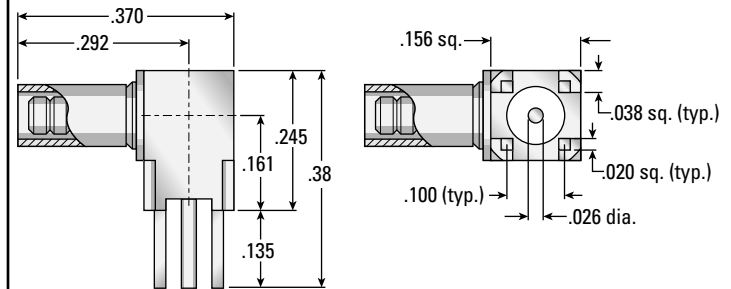
### Standard legs



LEG FINISH	AEP P/N
GOLD	7145-1521-0XX

LEG FINISH	AEP P/N
PRETINNED	7145-1521-1XX

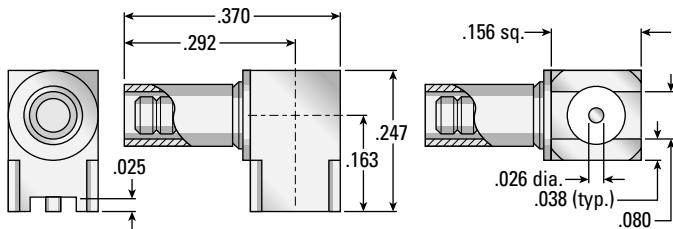
### Standoff legs



LEG FINISH	AEP P/N
GOLD	7145-1521-2XX

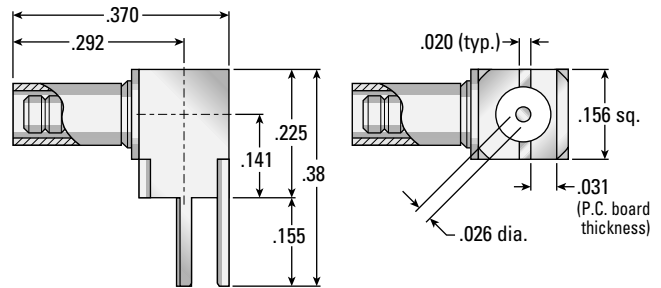
LEG FINISH	AEP P/N
PRETINNED	7145-1521-3XX

### Surface mount



LEG FINISH	AEP P/N
GOLD	7145-1521-6XX

### Edge mount



LEG FINISH	AEP P/N
GOLD	7145-1521-4XX

LEG FINISH	AEP P/N
PRETINNED	7145-1521-5XX

\*Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.

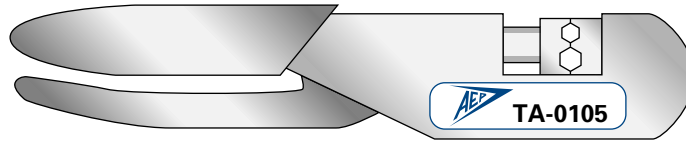


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# Assembly Tooling

## Crimp Tool



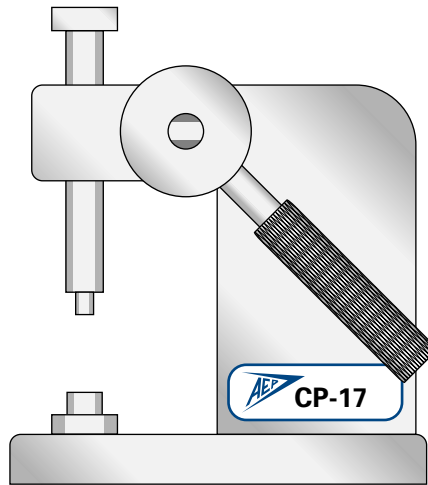
DESCRIPTION	AEP P/N
Crimp tool with .105" and .128" hex dies	TA-0105

## Torque Wrench



DESCRIPTION	AEP P/N
Torque wrench with 5/32" jaws for SSMC plug coupling nuts and straight connector backnuts; 30 inch-ounces torque	TA-0432

## Capping Tool



DESCRIPTION	AEP P/N
Capping tool (arbor press) with bases for SSMB/SSMC/SSLB right angle cable plugs and jacks	CP-17

Cable assembly instructions are shipped with each cable connector.



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## About AEP

Since our foundation in 1973, our goal has been to tailor our equipment and processes toward satisfying customer and market demand, no matter how circumstances change. To that end, our modern plant, with recent expansion, provides vertically-integrated machining, assembly, and testing to ensure the product quality and on-time delivery that have always been our hallmark.

"Continuous Improvement Equals Customer Satisfaction" is not just a slogan; we believe it's the best and only way to do business.



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The connectors in this brochure are only part of our complete line of coaxial connectors and cable assemblies, including:

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- 75Ω Snap-on mating • 75Ω Screw-on mating • Adapters within and between series • Waterproof connectors
- Flexible cable assemblies • Semi-rigid cable assemblies
- And over 100 styles of MIL-PRF-39012 QPL connectors in series SMA, SMB, and SMC.



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