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TECHNOLOGY GROUP

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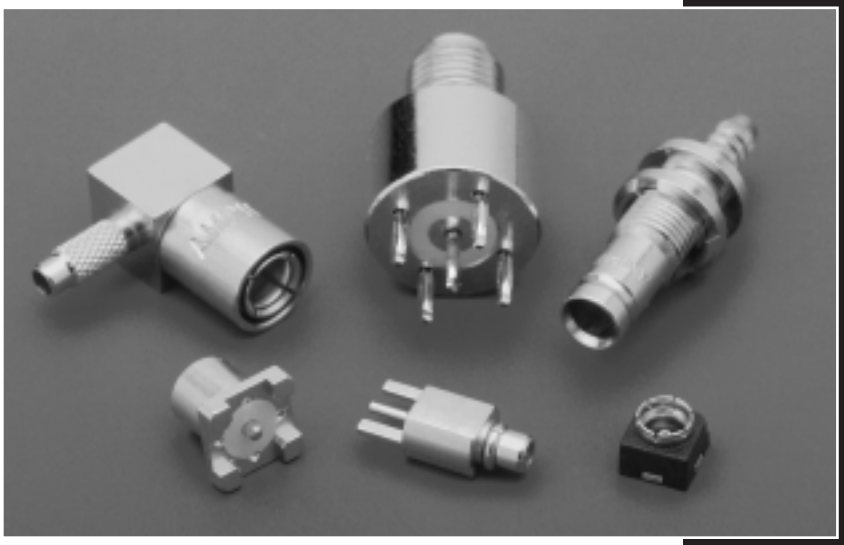
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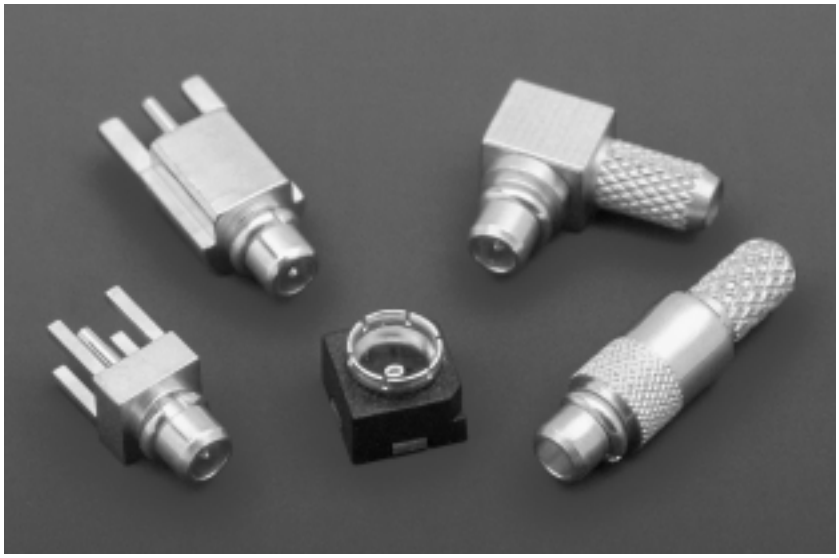


Subminiature

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Amphenol's Microminiature family of connectors includes Micromate™ (**MMCX**) and **MCX**. The connectors were developed to satisfy the need for high density, light weight coaxial interconnects. Each series of connectors features individual characteristics that allow the design engineer flexibility in completion of a project.

with performance through 6 GHz, featuring a quick-connect/disconnect snap-on mating style. The product series includes: straight plugs for flexible cables, right angle plugs for flexible and semi-rigid cables and straight jacks for both flexible and semi-rigid cables as well as printed circuit board receptacles.



The Micromate™ (**MMCX**) family of products is a 50 ohm coaxial interconnect system with performance to 6 GHz. These connectors are designed for use in wireless data and telecommunications as well as instrumentation. The product series includes: surface mount jack, edge launch jack and plug, right angle and straight cable plugs, and inter-series cable assemblies. Currently, intermateability does not exist between suppliers of microminiature connectors, forcing OEMs into single source position. Amphenol's Micromate™ complies with Europe's specification CECC 22000 compatible with Huber + Suhner.

The **MCX** family of products is also a 50 ohm coaxial interconnect system

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Amphenol's Subminiature family of connectors includes **SMA**, **SMB** and **1.0/2.3**. The compact design of these connectors permits dense connector packaging, making these connectors ideally suited to appplications where subminiature connector types feature their own mating style and RF performance characteristics, allowing the design engineer wide flexiblity of connector choice in the completion of a program.

interconnection requirements and provide good electrical performance from DC to 4 GHz.

Amphenol's **1.0/2.3** connectors are subminiature 50 ohm units available in push/pull types or a threaded coupling mechanism, which provide positive mating and high reliability. The compact design of the 1.0/2.3 permits dense packaging and provides good RF performance from DC to 10 GHz.



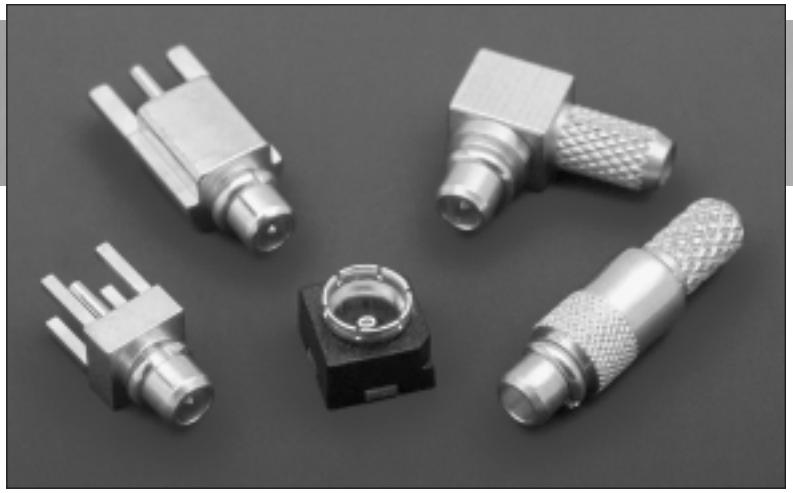
Amphenol's family of **SMA** connectors are a 50 ohm semi-precision coaxial interconnect system providing excellent performance from DC to 18 GHz. These high performance connectors are compact in size and feature outstanding mechanical durability and high reliability. Brass SMA connectors are available for commercial applications.

Amphenol's **SMB** connector line is a quick-connect/disconnect snap-on mating system, available in both 50 ohm and 75 ohm impedence. These connectors offer an economic solution to many "limited space"

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Notes

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Description

The MMCX series is also called Micromate™. It is Amphenol's smallest RF connector line and was developed in the 1990's.

MMCX is a micro-miniature connector series with a lock-snap mechanism allowing for 360 degrees rotation enabling flexibility in PCB layouts. MMCX connectors conform to the European CECC 22220 Spec.

The micromate family of products is a 6 GHz, 50 Ohm interconnect system. A range of connectors are available including surface mount, edge card, and cable connectors.

Features/Benefits

- Broadband performance with low reflection DC to 6 GHz. Low cost combined with high quality.
- Conforms to European CECC 22000 specifications. Provides customer with second source.
- Quick connect/disconnect snap-on mating reduces installation time.
- Available in many styles: Plugs (Straight and Right Angle) and Printed Circuit Board (Straight and Right Angle). Meets many customer application demands.

Application

- Antennas
- Base Stations
- Broadband Communications
- Cable Assemblies
- Components
- GPS
- Instrumentation
- PCMCIA Cards
- Radio Boards
- Satcom
- Telecom

MMCX

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ELECTRICAL

	CECC22000	Test Requirement
Impedance		50 Ohm
Frequency Range		DC thru 6 GHz
VSWR SMT and Edgecard (Mated Pair) DC - 4 GHz 4-6 GHz Cabled Straight, Semi-Rigid Straight, Flex Right Angle, Semi-Rigid Right Angle, Flex	4.4.1	 1.15 Max 1.40 Max 1.15 Max 1.20 Max 1.20 Max 1.25 Max
Dielectric Withstanding Voltage (at Sea Level) Working Voltage (at Sea Level)	4.4.5 4.4.4	500 V rms, 50 Hz ≤170 V rms, 50 Hz
Insulation Resistance	4.4.4	≥500 MΩ
Contact Resistance Center Conductor Outer Conductor	 4.4.2 4.4.3	 ≤10 mΩ ≤5 mΩ

NOTE: These characteristics are typical and may not apply to all connectors.

ENVIRONMENTAL

	CECC22000	Test Requirement
Temperature Range		-40°C thru 90°C
Temperature Shock	4.6.7	Mil-STD-202, Method 107
Humidity	4.6.6	Mil-STD-202, Method 103, Condition B
Vibration	4.6.3	3 cycles, 3 opposite directions, 10-150 Hz, 10-60 Hz: 0.75mm/.030 in., 60-150Hz 10G's
Mechanical Shock	4.6.4	Mil-STD-202, Method 213, Condition B

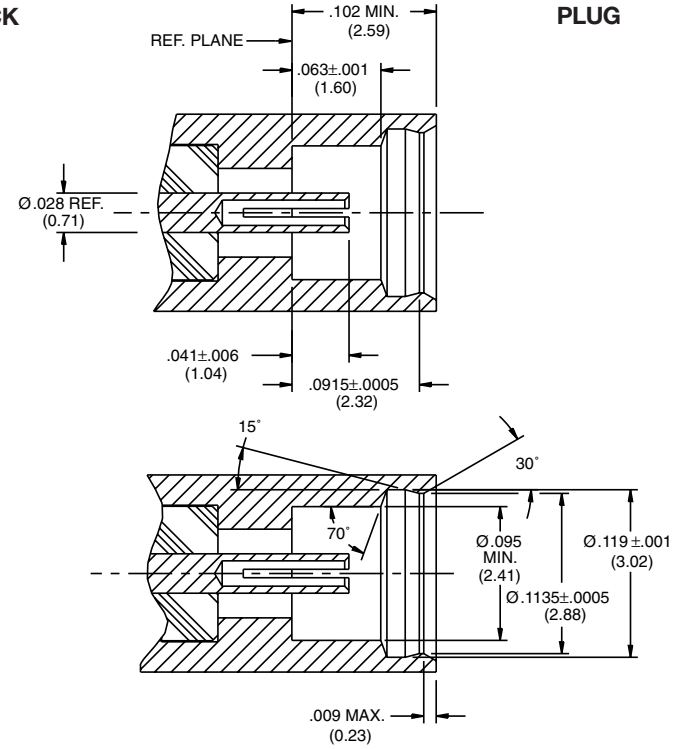
MECHANICAL

	CECC22000	Test Requirement
Engagement Force	4.5.4	≤3.4 lbs.
Disengagement Force	4.5.4	1.4 lbs. to 3.4 lbs.
Contact Captivation	4.5.2	2.3 lbs.
Durability (Machined)	4.7.1	≥500 cycles

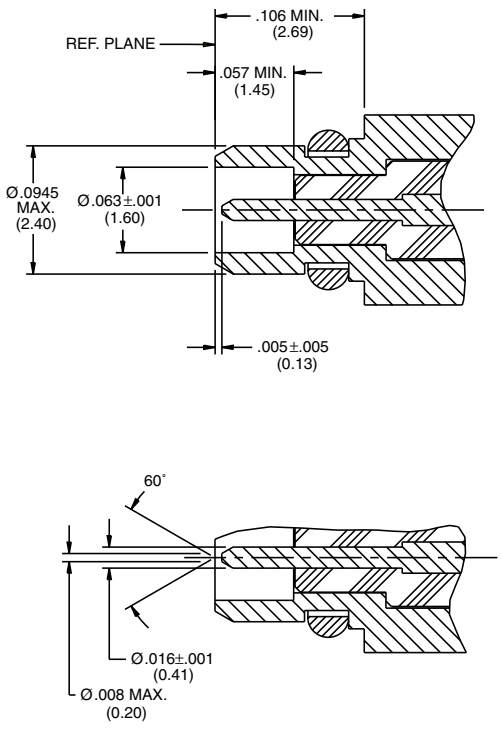
MATERIAL

Connector Part	Standards	Material	Plating
Leads	QQ-C-530	BeCu	Gold
Contact Socket	QQ-C-530	BeCu	Gold
Outer Conductor	QQ-C-530	BeCu	Gold
Housing (SMT)	—	Liquid Crystal Polymer	—
Insulator	ASTM-D1457	PTFE	—

JACK



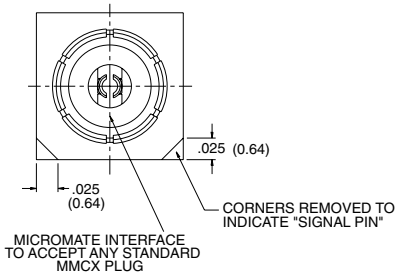
PLUG

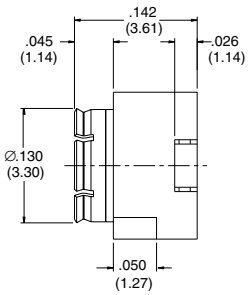


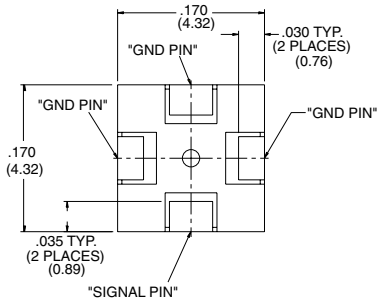
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Fig. 1





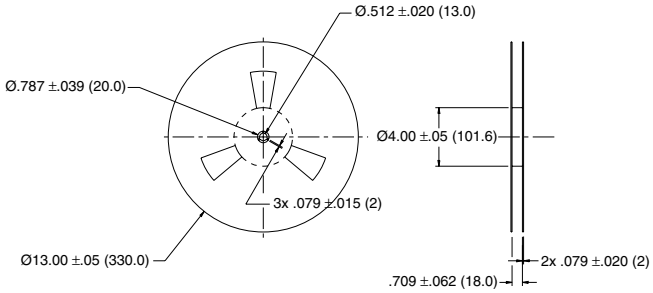




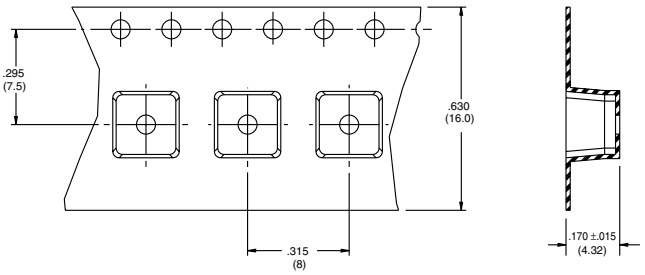
MMCX Surface Mount Jacks

908-22101▲
908-22101B
908-22101T▲
908-22101-TC

Reel Dimensions*



Tape and Reel Packaging*



* Blister tape packaged uniformly for vertical mounting and supplied in accordance with **IEC 286-3/EIA 481**

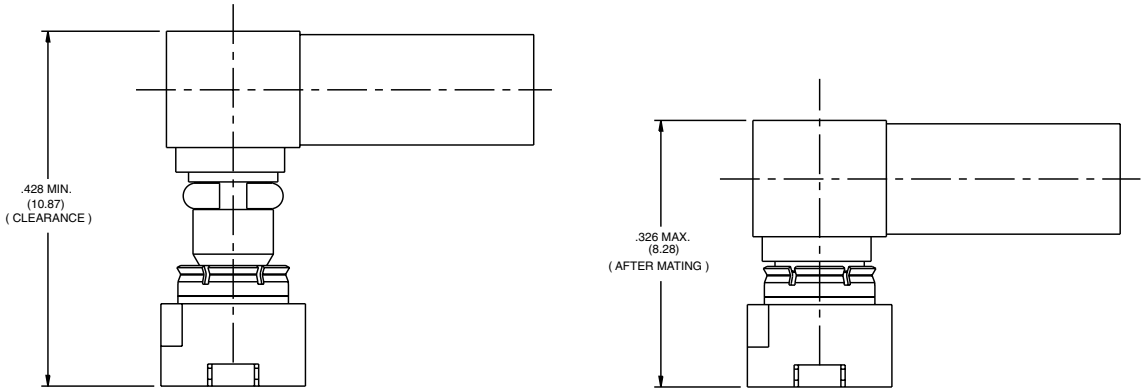
MicroMate™ (MMCX) SURFACE MOUNTS

Description	Plt.	Ins.	Contact & Body	Mtg. Patterns/Page No.	Amphenol Number	Fig.
SMT Jack, Single Packed	P11	L1	Stamped Beryllium Copper	Fig. M3/8 or M4/8	▲ **908-22101**	1
SMT Jack, Bulk Packed	P11	L1	Stamped Beryllium Copper	Fig. M3/8 or M4/8	**908-22101B**	1
SMT Jack, Tape & Reel	P11	L1	Stamped Beryllium Copper	Fig. M3/8 or M4/8	▲ **908-22101T**	1
SMT Jack, Tape & Reel w/cap	P11	L1	Stamped Beryllium Copper	Fig. M3/8 or M4/8	**908-22101-TC**	1

▲ Distributor Stocked

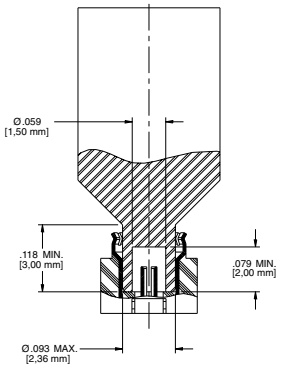
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Dimensions for Clearance and Mated Height



Pick and Place Automation

- Amphenol Surface Mount connectors can be assembled to printed circuit boards by state of the art pick and place equipment.
  - Connector pick-up by suction tip
  - Optional insertion tip (see illustration)



Application Notes

Amphenol SMT solder joints act as the mechanical bond to the printed circuit board and also functions as the point of electrical contact. With this in mind, the following points should be considered:

- Avoid forces from the cable of the mating connector to the surface mounted connector.
- For connecting and disconnecting of the surface mounted connector only non-axial forces should be applied. Non-compliance may cause excess torque and damage the solder connectors.

Recommended Mounting Patterns

Fig. M3

Preferred Layout

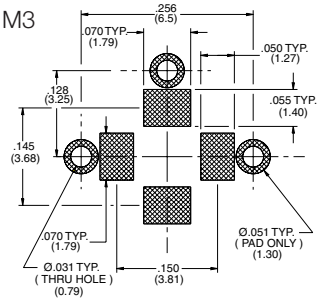
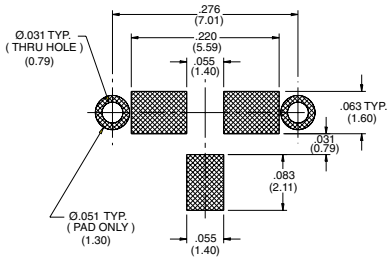


Fig. M4

Alternate Layout



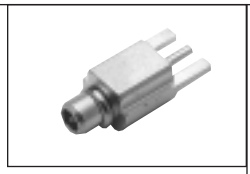
Soldering

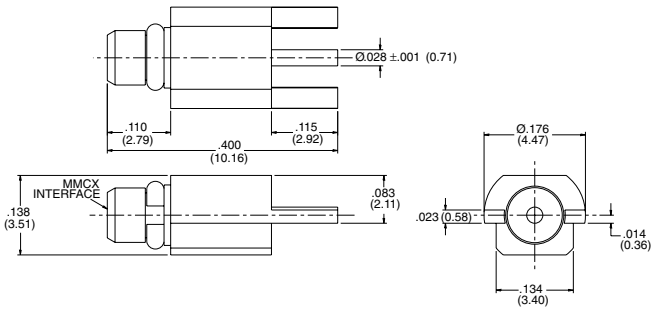
MicroMate (MMCX) product is compatible with the following soldering methods.

- Infrared Soldering (Max 260˚C/500˚F)
- Vapor Phase Soldering (215˚C/419˚F)
- Normal Eutectic Solder Paste (63% tin, 37% lead)
- If stenciled or screened in accordance with the mounting patterns above

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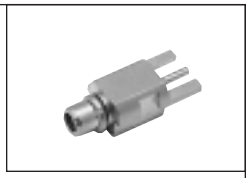
Fig. 1

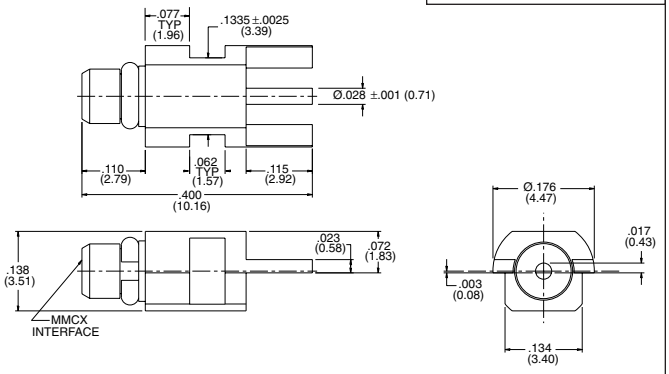




MMCX Edgecard or Vertical Mount Plug
908-21100▲
908-21100T

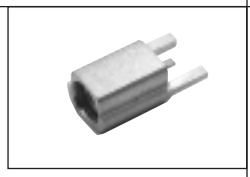
Fig. 2

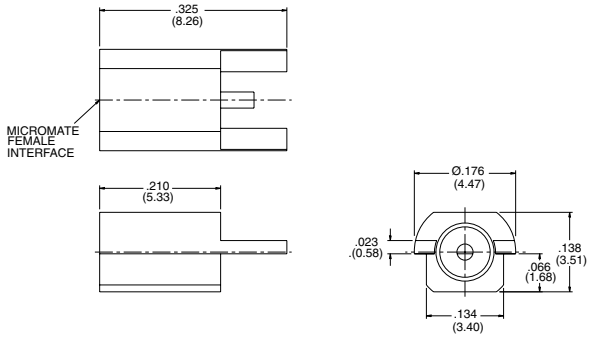




MMCX Edgecard Mount Plug - Offset
908-21102
908-21102T

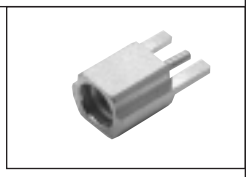
Fig. 3

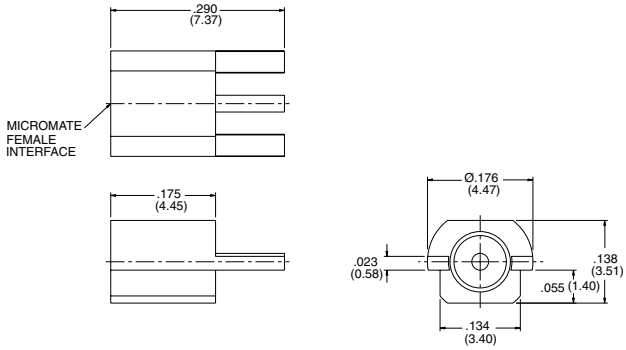




MMCX Edgecard Mount Jack - Offset
908-22103

Fig. 4





MMCX Edgecard or Vertical Mount Jack
908-22100▲
908-22100T

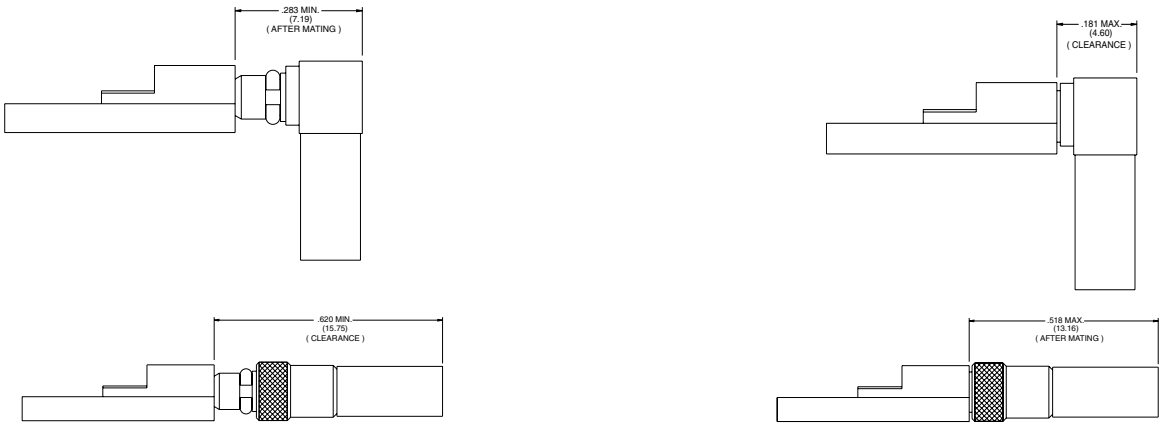
MicroMate™ (MMCX) EDGECARD AND PCB MOUNTS

Description	Plt.	Ins.	Contact	Mtg. Patterns/Page No.	Construction Notes	Amphenol Number	Fig.
Edgecard Plug	P11	D1	Brass	Fig. M2/10 & M5/10	Machined	▲**908-21100**	1
Edgecard Plug, Tape & Reel	P11	D1	Brass	Fig. M2/10 & M5/10	Machined	**908-21100T**	1
Edgecard Plug, Offset	P11	D1	Brass	Fig. M5/10	Machined	**908-21102**	2
Edgecard Plug, Offset, Tape & Reel	P11	D1	Brass	Fig. M5/10	Machined	**908-21102T**	2
Edgecard Jack	P11	D1	BeCu	Fig. M2/10 & M5/10	Machined	▲**908-22100**	4
Edgecard Jack, Tape & Reel	P11	D1	BeCu	Fig. M5/10	Machined	**908-22100T**	4
Edgecard Jack - Offset	P11	D1	BeCu	Fig. M5/10	Machined	**908-22103**	3

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Dimensions for Clearance and Mated Height



Pick and Place Automation

- Amphenol Edgecard Mount connectors can be assembled to PC boards with state of the art pick and place equipment.
  - Connector pick-up by suction tip

Application Notes

- Avoid radial forces from the cable of the mating connector to the surface mount connector
- Secure the cable sufficiently
- Apply only axial forces during mating and de-mating

Mounting Patterns

Fig. M1

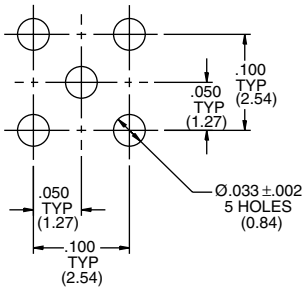
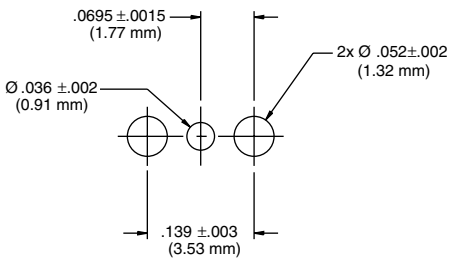
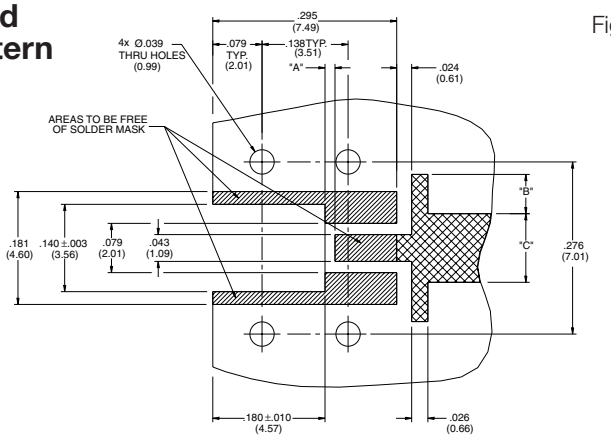


Fig. M2



Recommended Mounting Pattern

Fig. M5



Thickness (FR 4, Er=4.6)	"A"	"B"	"C"
.031 (0.79)	.039 (0.99)	–	.055 (1.40)
.039 (0.99)	.035 (0.89)	.012 (0.30)	.071(1,80)
.063 (1.60)	.016 (0.41)	.063 (1.60)	.110 (2.79)

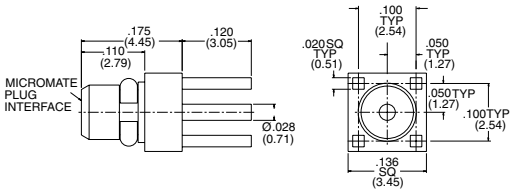
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- Infrared Soldering (Max 260°C/500°F)
- Vapor Phase Soldering (215°C/419°F)
- Normal Eutectic Solder Paste (63% tin, 37% lead)
- If stenciled or screened in accordance with the mounting pattern above

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Fig. 1

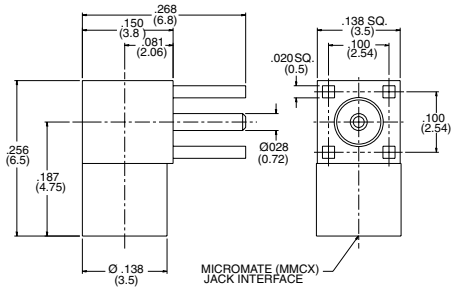




MMCX Straight PCB Mount Plug - Thru-Hole
908-21103▲

Fig. 2

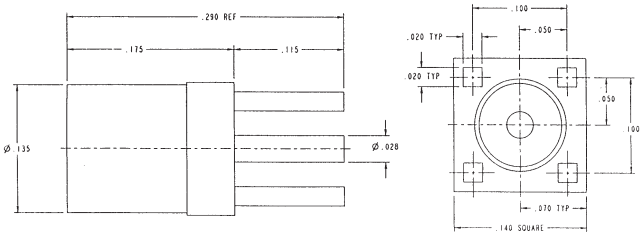




MMCX Right Angle PCB Mount Jack - Thru-Hole
908-24100

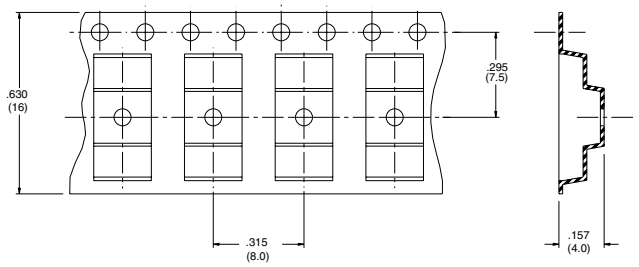
Fig. 3



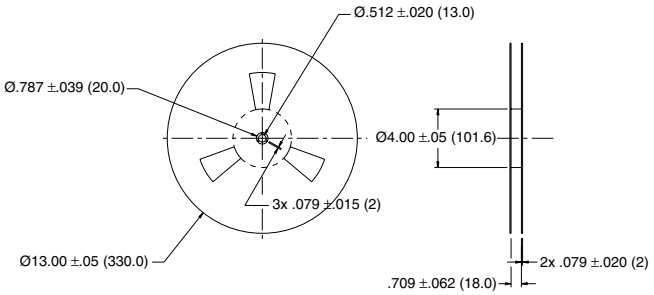


MMCX Straight PCB Mount Plug - Thru-Hole
908-22106

Tape and Reel Packaging*



Reel Dimensions*



***** Blister tape packaged uniformly for edgecard mounting and supplied in accordance with **IEC 286-3/EIA 481**

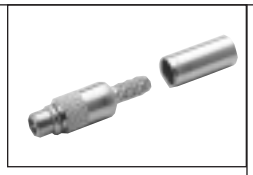
MicroMate™ (MMCX) EDGECARD AND PCB MOUNTS

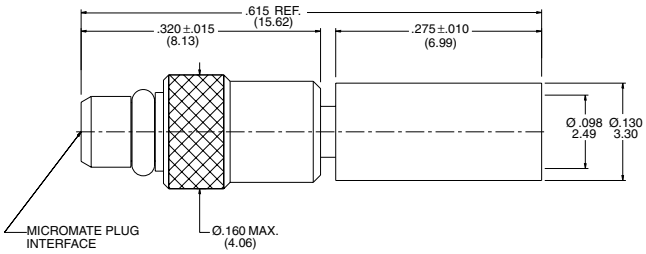
Description	Plt.	Ins.	Contact	Mtg. Patterns/Page No.	Construction Notes	Amphenol Number	Fig.
R/A Jack, PCB	P11	D1	BeCu	Fig. M1/6	1 Piece Contact	▲908-24100	2
Straight PCB Plug	P11	D1	Brass	Fig. M1/6	Machined	▲ 908-21103	1
Straight Jack PCB	P11	D1	BeCu	Fig. M1/6	Machined	▲ 908-22106	3

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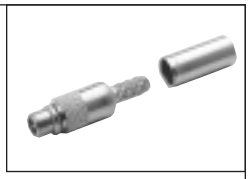
Fig. 1

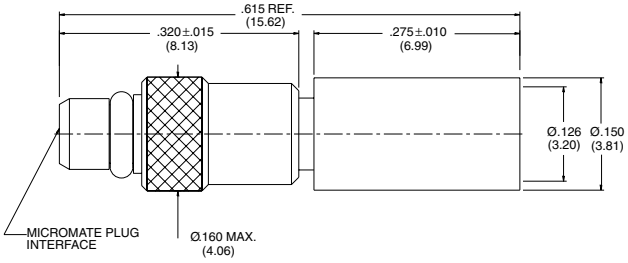




MMCX Straight Plug for RG-178, 196
908-41200▲

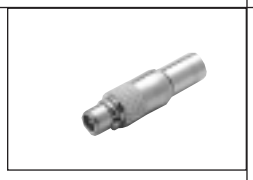
Fig. 2

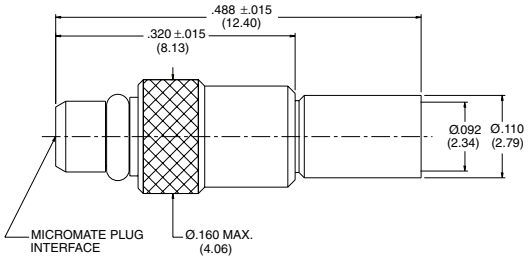




MMCX Straight Plug for RG-174, 188, 316
908-41300▲

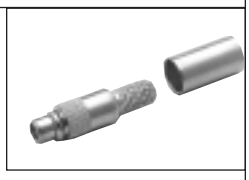
Fig. 3

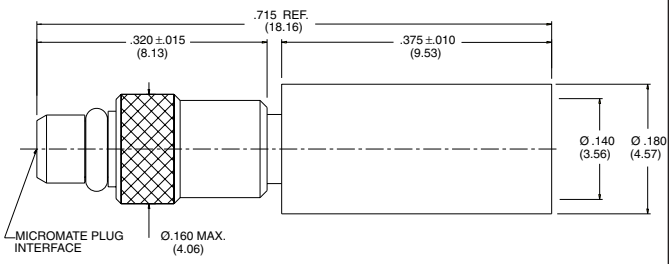




MMCX Straight Plug for .086 Semi-Rigid
908-41400▲

Fig. 4





MMCX Straight Plug for RD-316
908-41500▲

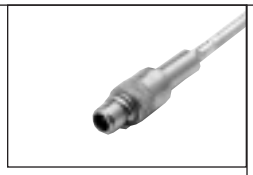
MicroMate™ (MMCX) CABLE CONNECTORS

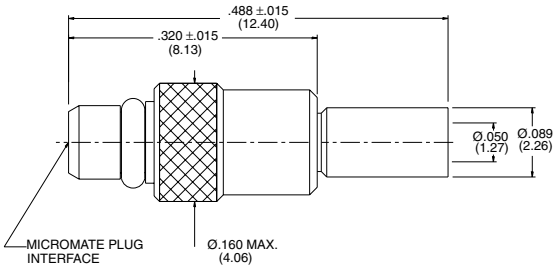
Cable RG-/U	Cable Attachment		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner						
RG-178, 196	Crimp	Solder	C70	P11	D1	Captivated Contact	▲ 908-41200	1
RG-174, 188, 316	Crimp	Solder	C70	P11	D1	Captivated Contact	▲ 908-41300	2
.086 Semi-Rigid	Solder	Solder	C71	P11	D1	Captivated Contact	▲ 908-41400	3
RD-316	Crimp	Solder	C70	P11	D1	Captivated Contact	▲ 908-41500	4

▲ Distributor Stocked

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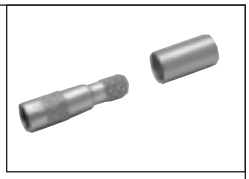
Fig. 1

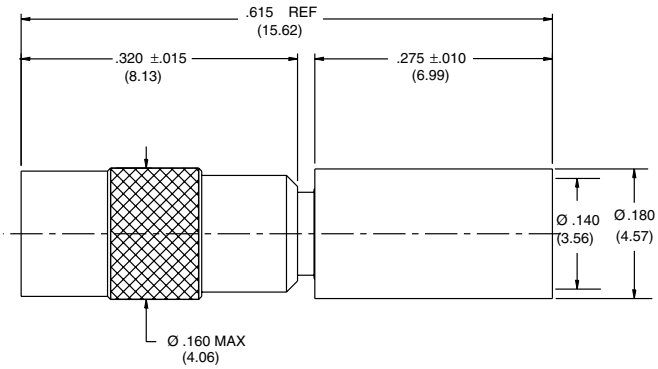




MMCX Straight Plug for .047 Semi-Rigid
908-41600▲

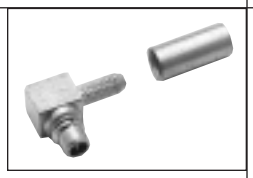
Fig. 2

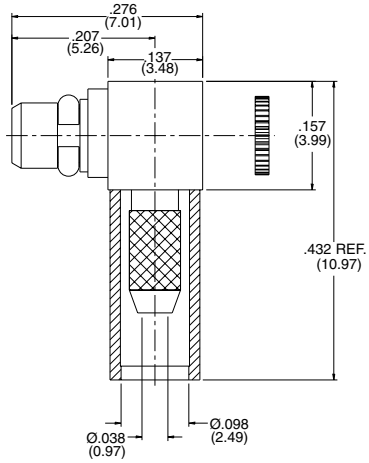




MMCX Straight Jack for RG-174, 188, 316
908-42300▲

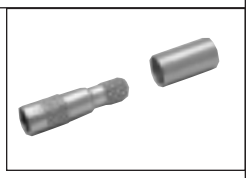
Fig. 3

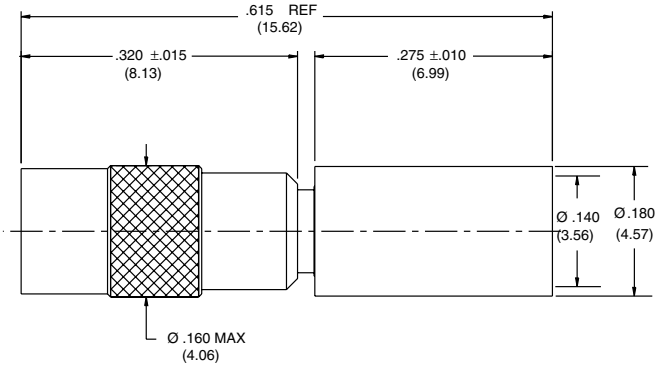




MMCX Right Angle Plug for RG-178, 196
908-43200▲

Fig. 4





MMCX Right Angle Jack for RD-316
908-42500▲

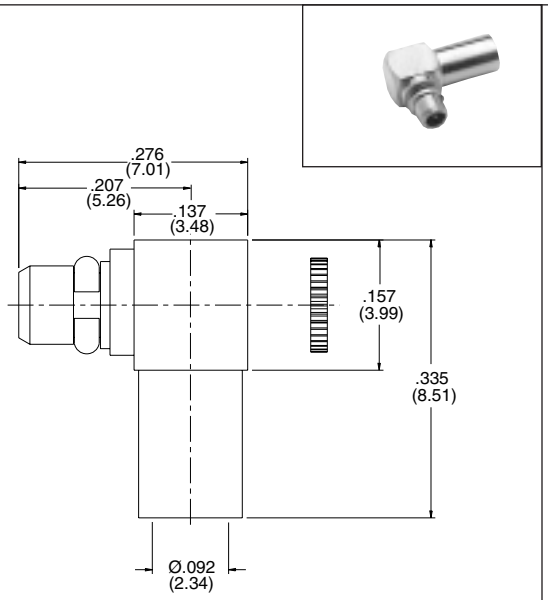
MicroMate™ (MMCX) CABLE CONNECTORS

Cable RG-/U	Cable Attachment		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner						
.047 Semi-Rigid	Solder	Solder	C71	P11	D1	Captivated Contact	▲ 908-41600	1
RG-174, 188, 316	Crimp	Solder	C70	P11	D1	Captivated Contact	▲ 908-42300	2
RG-178, 196	Crimp	Solder	C72	P11	D1	Captivated Contact	▲ 908-43200	3
RD-316	Crimp	Solder	C70	P11	D1	Captivated Contact	▲ 908-42500	4

▲ Distributor Stocked

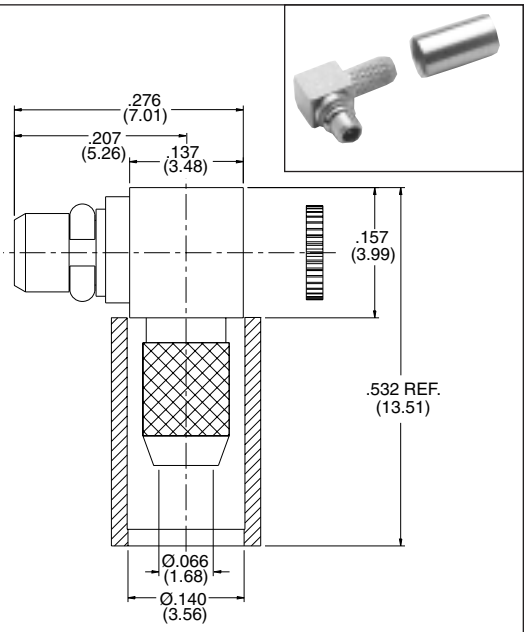
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Fig. 1



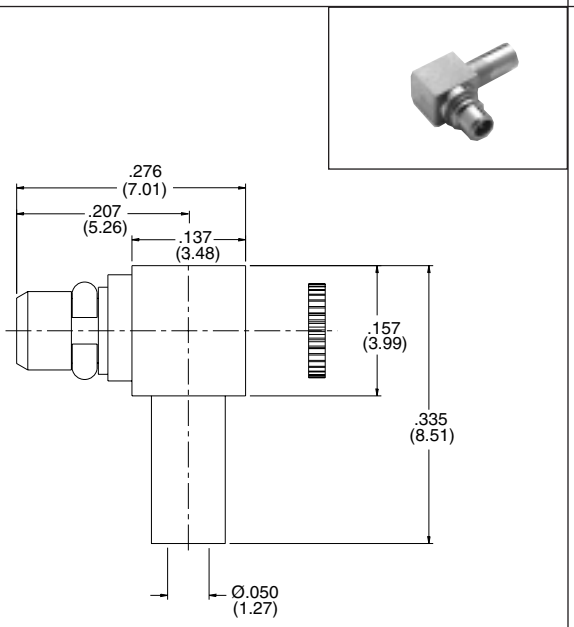
MMCX Right Angle Plug for .086 Semi-Rigid
908-43400▲

Fig. 2



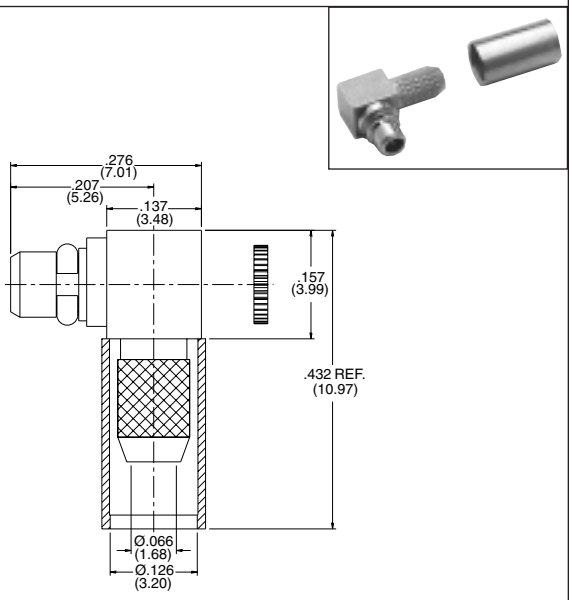
MMCX Right Angle Plug for RD-316
908-43500▲

Fig. 3



MMCX Right Angle Plug for .047 Semi-Rigid
908-43600▲

Fig. 4



MMCX Right Angle Plug for RG-174, 188, 316
908-43300

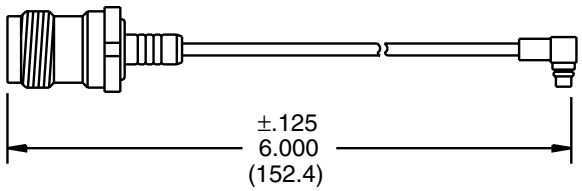
MicroMate™ (MMCX) CABLE CONNECTORS

Cable RG-/U	Cable Attachment		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner						
.086 Semi-Rigid	Solder	Solder	C73	P11	D1	Captivated Contact	▲ 908-43400	1
RD-316	Crimp	Solder	C72	P11	D1	Captivated Contact	▲ 908-43500	2
.047 Semi-Rigid	Solder	Solder	C73	P11	D1	Captivated Contact	▲ 908-43600	3
RG-174, 188, 316	Crimp	Solder	C72	P11	D1	Captivated Contact	▲ 908-43300	4

▲ Distributor Stocked

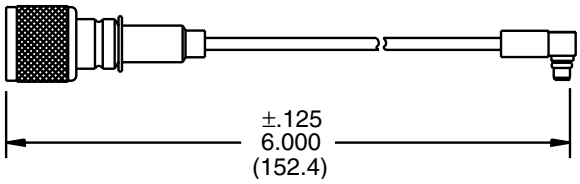
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Fig. 1



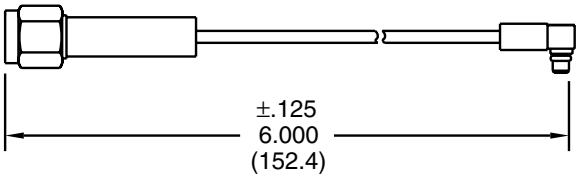
Right Angle MicroMate Plug to RP-TNC Jack
095-680-58000

Fig. 2



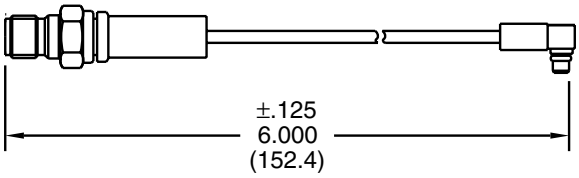
Right Angle MicroMate Plug to Straight Mini-UHF Plug
095-680-68000

Fig. 3



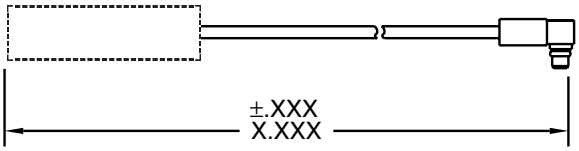
Right Angle MicroMate Plug to SMA Plug
095-680-98000

Fig. 4



Right Angle MicroMate Plug to SMA Jack
095-680-98001

Fig. 5



Right Angle MicroMate Plug to
Customer Specified Connector and Cable
095-680-XXXXX

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Notes

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Description

MCX connectors conform to the European CECC 22220 Spec and was introduced in the 1980's.

While the MCX uses identical inner contact and insulator dimensions as the SMB, the outer diameter of the plug is .140" which is 30% smaller than the SMB. This series provides designers with options where weight and physical space is limited.

MCX provides broadband capability though 6GHz with a snap-on connector design. A range of connectors are available including PC board and cable connectors.

Features/Benefits

- Broadband performance with low reflection DC to 6 GHz. Low cost combined with high quality.
- Quick connect/disconnect snap-on mating reduces installation time.
- Accommodates a wide range of miniature RG flexible coaxial cables including semi-rigid cable provides customer flexibility in their design and manufacturing with a durable connector.

Application

- Antenna
- Automotive
- Base Station
- Components
- GPS
- Head End Equipment
- Instrumentation
- PC/LAN
- Radios
- Telecom
- WLAN

50 Ohm Coaxial Connectors

Specifications	18
Straight & Right Angle Crimp	19
Straight Solder & PCB	20-21

75 Ohm Coaxial Connectors

Specifications	22
Plugs	23
Receptacles PCB	23

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50 Ohm Specifications

ELECTRICAL

Impedance	50 ohms
Frequency range	0-6 GHz
Voltage rating	335 VRMS
Dielectric withstanding voltage	1000 Volts
VSWR	1.00 @ 2.5GHz (straight) 1.10 @ 2.5GHz (rt. angle)
Contact resistance	Center contact: 5 milliohms; Outer contact: 1.0 milliohms;
Insulation resistance	5000 megohms min.
Insertion loss:	0.10 dB @ 1 GHz

MECHANICAL

Mating	50 ohm snap-on coupling, per CECC 22220
Engagement forces	engagement 4.5 lbs (20N) max. disengagement 2.3 lbs (10N) min.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Connector durability	500 mating and unmating cycles min.

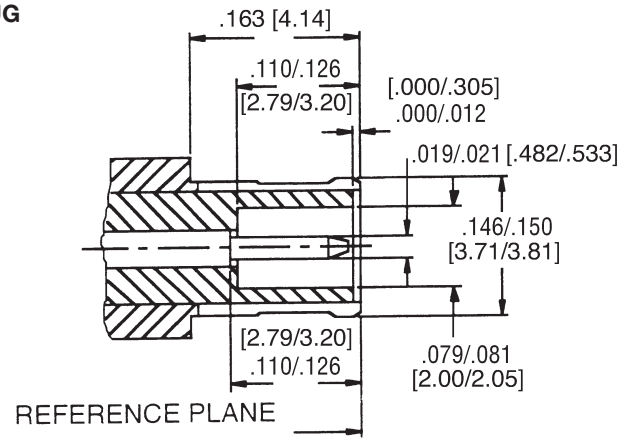
MATERIAL

Body, Metal Parts Finish	Brass per QQB-626 Nickel or Gold
Center contacts gold plated (30 u" gold)	Male: Brass per QQB626 Female: Beryllium copper per QQC 530 heat treated per MIL H 7199
Insulators	PTFE
Gasket	Silicone Rubber
Crimp ferrules Finish	Seamless copper tubing alloy Nickel or Gold

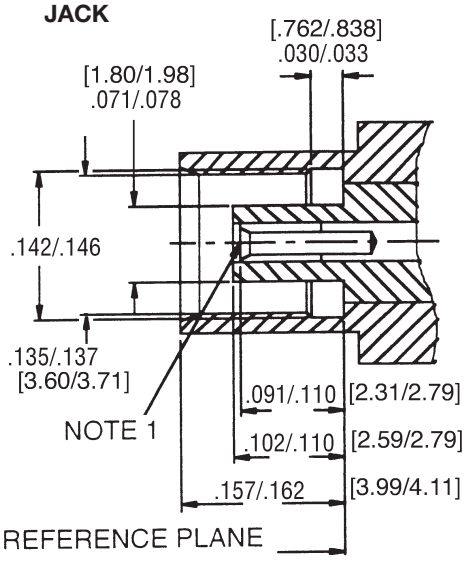
ENVIRONMENTAL

Temperature range	-65°C to + 165°C
Thermal shock	MIL-STD-202 method 107 (test cond. B) except high temperatures @ 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. B)
Shock	MIL-STD-202 method 213, snap-on (test cond. B)
Corrosion	MIL-STD-202 method 101 (test cond. B) 5% salt solution.

PLUG



JACK



NOTE:

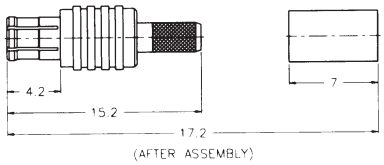
1. I.D. to meet VSWR and contact resistance when mated with .48/.53mm diameter pin

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50 Ohm Crimp Attachments for Flexible Cable

Fig. 1

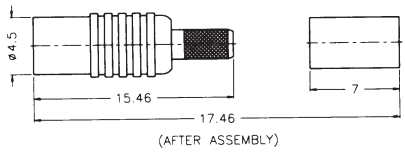




MCX Crimp Plug, Crimp
919-101P-51SX
Gold Plated for RG-174, 188, 316
919-101P-51S1X
Nickel Plated for RG-174, 188, 316
919-121P-51SX
Gold Plated for RG-178-196
919-130P-51SX
Gold Plated for RD-316

Fig. 2





MCX Crimp Jack, Crimp
919-107J-51SX
Gold Plated for RG-174, 188, 316
919-107J-51S1X
Nickel Plated for RG-174, 188, 316
919-131J-51SX
Gold Plated for RG-178, 196

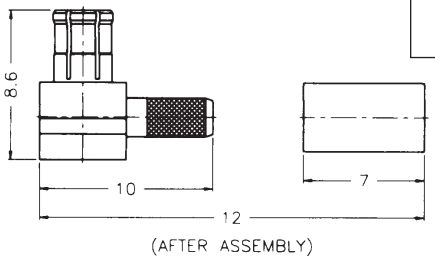
Fig. 3



MCX Straight Bulkhead Jack
919-129J-51SX
Gold Plated for RD 316
919-128J-51SX
Gold Plated for RG-174, 188, 316

Fig. 4





MCX Angle Plug, Crimp
919-104P-51AX
Gold Plated for RG-174, 188, 316
919-104P-51A1X
Nickel Plated for RG-174, 188, 316
919-122P-51AX
Nickel Plated for RG-178-196

MCX

50 OHM MCX CABLE CONNECTORS

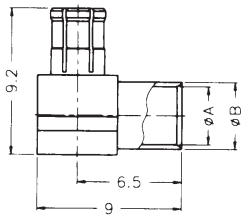
Cable RG-/U	Cable Attachment		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner						
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Gold Plated	**919-101P-51SX**	1
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Nickel Plated	**919-101P-51S1X**	1
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Gold Plated	**919-107J-51SX**	2
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Nickel Plated	**919-107J-51S1X**	2
RD-174, 188, 316	Crimp	Solder	C77	P11	D1	Gold Plated	**919-128J-51SX**	3
RG-174, 188, 316	Crimp	Solder	C77	P11	D1	Gold Plated	**919-104P-51AX**	4
RG-174, 188, 316	Crimp	Solder	C77	P11	D1	Nickel Plated	**919-104P-51A1X**	4
RG-178, 196	Crimp	Solder	C74	P11	D1	Gold Plated	**919-121P-51SX**	1
RG-178, 196	Crimp	Solder	C74	P11	D1	Gold Plated	**919-131J-51SX**	2
RG-178, 196	Crimp	Solder	C77	P11	D1	Gold Plated	**919-122P-51AX**	4
RD-316	Crimp	Solder	C77	P11	D1	Gold Plated	**919-129J-51SX**	3
RD-316	Crimp	Solder	C74	P11	D1	Gold Plated	**919-130P-51SX**	1

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50 Ohm For Semi-Rigid Cable and PCB

Fig. 1

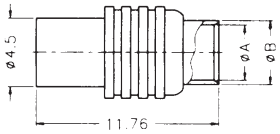




MCX Angle Plug, Solder to Body
919-102P-51AX
for .085 S/R (2.2mm)
919-103P-51AX
for .141 S/R (3.6mm)

Fig. 2

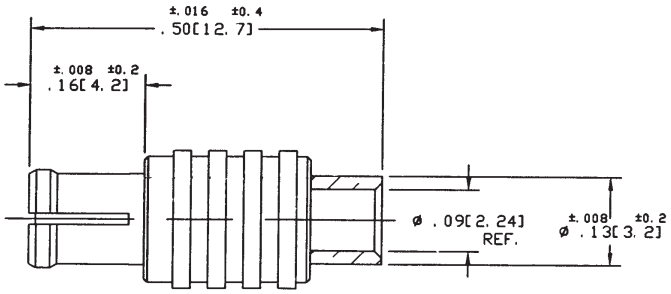




MCX Jack, Solder to Body
919-114J-51SX
for .085 S/R (2.2mm)

Fig. 3





MCX Plug Solder to Body
919-120P-51SX
for .085 S/R 2.2mm

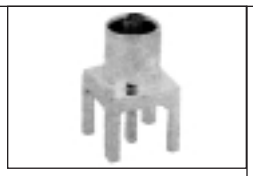
50 OHM MCX SEMI-RIGID CABLE CONNECTORS

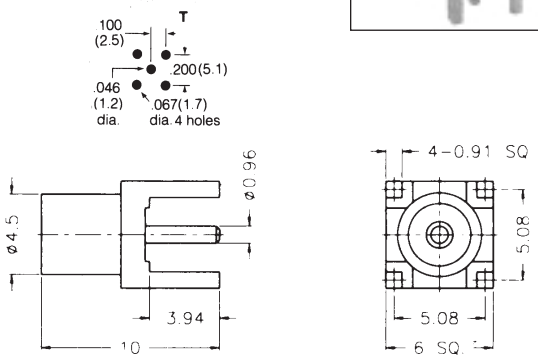
Cable RG-/U	Cable Attachment		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner						
.085 Semi-Rigid	Solder	Solder	C76	P11	D1	Gold Plated	**919-102P-51AX**	1
.085 Semi-Rigid	Solder	Solder	C75	P11	D1	Gold Plated	**919-114J-51SX**	2
.085 Semi-Rigid	Solder	Solder	C75	P11	D1	Gold Plated	**919-120P-51SX**	3
.141 Semi-Rigid	Solder	Solder	C76	P11	D1	Gold Plated	**919-103P-51AX**	1

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50 Ohm PCB and Surface Mount

Fig. 1





MCX Printed Circuit Receptacle
Blunt Post Terminal, Four Legs
919-109J-51PX
.155 (3.9mm) Legs
Gold Plated

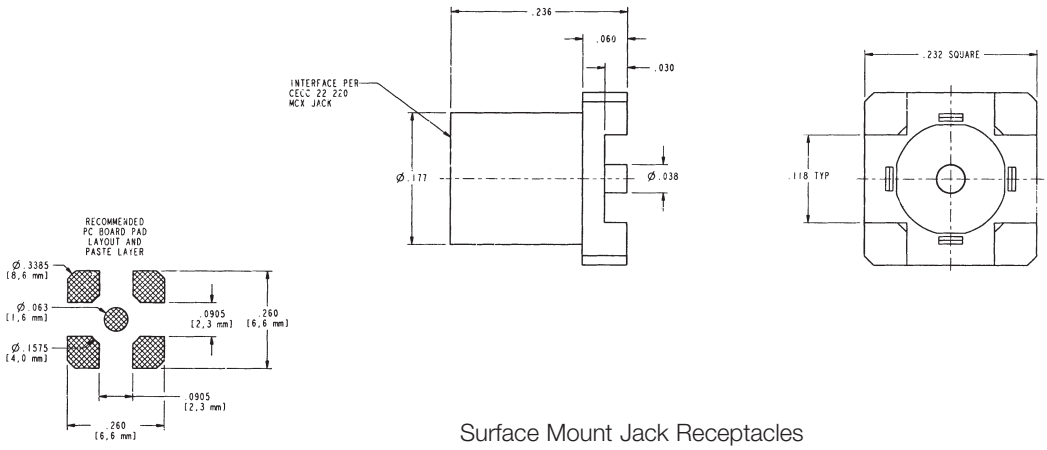
Fig. 2



MCX PCB Right Angle Receptacle
Blunt Post Terminal, Four Legs
919-119J-51AX
.155 (3.9mm) legs
Gold plated

Fig. 3





Surface Mount Jack Receptacles
919-118J-51P
Gold Plated

50 OHM MCX PCB RECEPTACLES

Description	Terminal Type	Plt.	Ins.	MTG Hole	Construction Notes	Amphenol Numbers	Fig.
PCB Panel Jack Receptacles	Blunt Post	P11	D1	T	Stand Off Pads	**919-109J-51PX**	1
PCB Panel Jack Receptacles	Blunt Post	P11	D1	T	Stand Off Pads	**919-119J-51AX**	2

50 OHM MCX SURFACE MOUNT

Description	Terminal Type	Plt.	Ins.	MTG Hole	Construction Notes	Amphenol Numbers	Fig.
Surface Mount Jack Receptacles	Blunt Post	P11	D1	—	Surface Mount	**919-118J-51P**	3

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75 Ohm Specifications

ELECTRICAL

Impedance	75 ohms
Frequency range	0-6 GHz
Voltage rating	170 Volts
Dielectric withstanding voltage	500 Volts
VSWR	1.06@ 2.5 GHz (straight) 1.08 @ 2.5GHz (rt. angle)
Contact resistance	Center contact: 5 milliohms; Outer contact: 2.5 milliohms;
Insulation resistance	10,000 megohms min.
Insertion loss:	0.10 dB @ 1 GHz

MECHANICAL

Mating	50 ohm snap-on coupling, per CECC 22220
Engagement forces	engagement 4.5 lbs (20N) max. disengagement 2.3 lbs (10N) min.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Connector durability	500 mating and unmating cycles min.

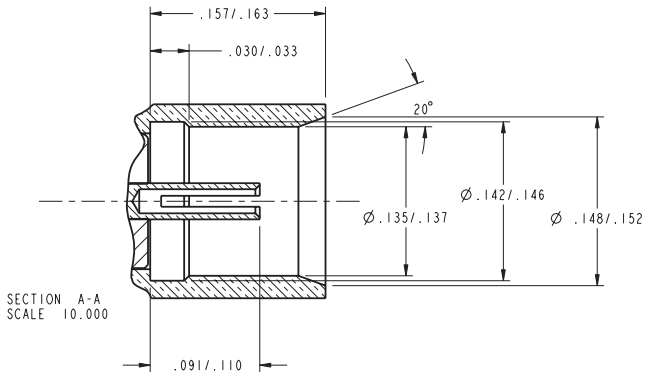
MATERIAL

Body, Metal Parts Finish	Brass per QQB-626 Nickel or Gold
Center contacts gold plated (30 u" gold)	Male: Brass per QQB626 Female: Beryllium copper per QQC 530 heat treated per MIL H 7199
Insulators	PTFE
Gasket	Silicone Rubber
Crimp ferrules Finish	Seamless copper tubing alloy Nickel or Gold

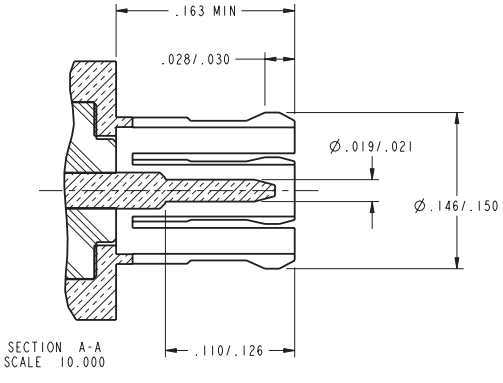
ENVIRONMENTAL

Temperature range	-65°C to + 165°C
Thermal shock	MIL-STD-202 method 107 (test cond. B) except high temperatures @ 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. B)
Shock	MIL-STD-202 method 213, snap-on (test cond. B)
Corrosion	MIL-STD-202 method 101 (test cond. B) 5% salt solution.

PLUG



JACK



NOTE:

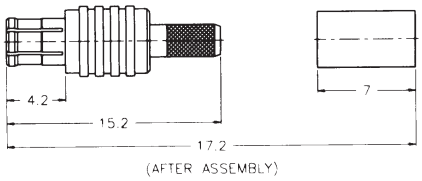
1. I.D. to meet VSWR and contact resistance when mated with .48/.53mm diameter pin

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75 Ohm Crimp Attachments for Flexible Cable

Fig. 1

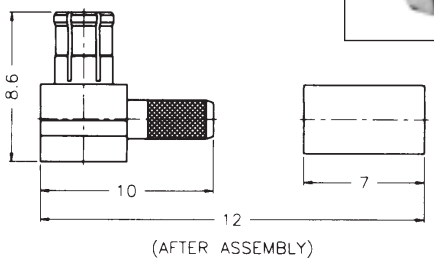




MCX Crimp Plug, Crimp
919-137P-71SX
Gold Plated for RG-179
919-137P-71S2X
Gold Plated for RD-179

Fig. 2

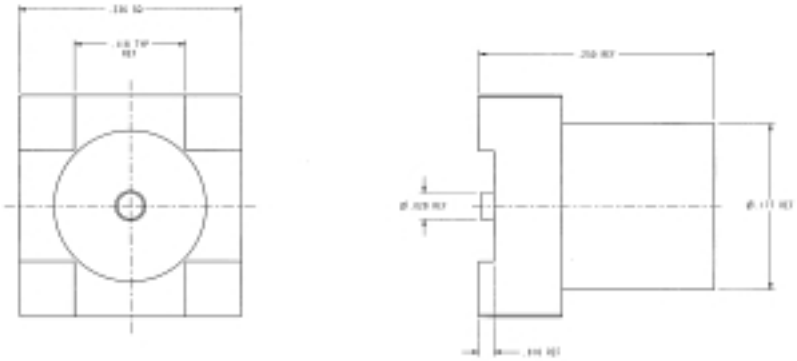




MCX Angle Plug, Crimp
919-136P-71AX
Gold Plated for RG-179
919-136P-71A2X
Gold Plated for RD-179

Fig. 3





MCX Straight Surface Mount
919-132J-71P
Gold Plated

75 OHM MCX CABLE CONNECTORS

Cable RG-/U	Cable Attachment		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner						
RG-179	Crimp	Solder	C74	P11	D1	Gold Plated	**919-137P-71SX**	1
RD-179	Crimp	Solder	C74	P11	D1	Gold Plated	**919-137P-71S2X**	1
RG-179	Crimp	Solder	C77	P11	D1	Gold Plated	**919-136P-71AX**	2
RD-179	Crimp	Solder	C77	P11	D1	Gold Plated	**919-136P-71A2X**	2

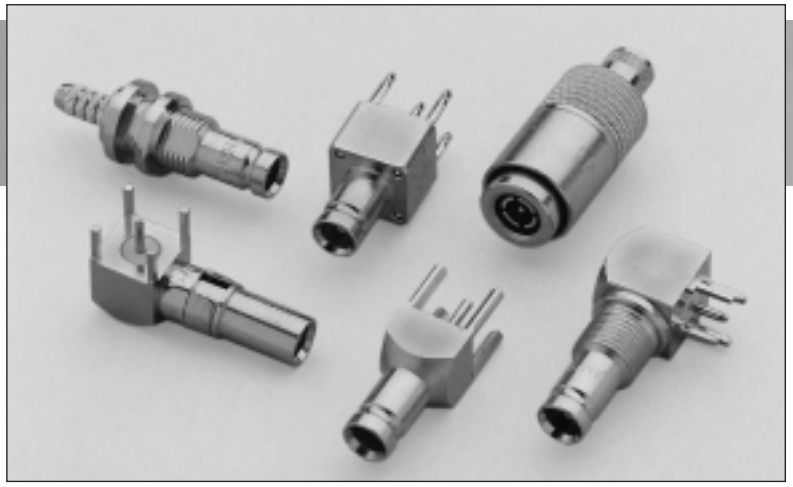
75 OHM SURFACE MOUNT CONNECTOR

Cable RG-/U	Cable Attachment		CAI.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner					
RG-316	Crimp	Solder	C74	D1	Gold Plated	**919-132J-71P**	3

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Notes

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Description

The 1.0/2.3 series is a European design introduced in the 1990's. The compact design of the 1.0/2.3 permits dense connector packing; they are ideally suited to applications where space limitation is a factor.

Versions are available with threaded coupling mechanisms which provide positive mating or with a unique push-pull coupling system which allows quick installation. The Amphenol push-pull process is patented and ensures positive locking.

Amphenol 1.0/2.3 coaxial connectors are 50 ohm units operating from 0-10 GHz. This series complies with DIN 41626, DIN 47297, and NFC 93-571 international specifications.

Features/Benefits

- Push-Pull coupling with patented locking mechanism allows quick installation; will not disconnect during trouble shooting like competitor's products.
- Push-pull offers safe coupling. Locking mechanism will not vibrate loose as threaded connectors are prone to do.
- Push-pull coupling mechanism eliminates cross-threading problems eliminates field problems.
- Push-pull connectors can be more densely packed saving panel space in components that are shrinking in size.

Application

- Base Stations
- Cable Assemblies
- Components (Filters)
- Datacom
- Routers
- Switching Equipment
- Telecom

1.0/2.3

Specifications	26
Straight Cable Plugs & Jacks	27-28
Right Angle Cable Plugs & Jacks	29
PCB Jack Receptacles	30
PCB Press-Fit Jacks	31
4-Hole Flange Jacks	32
50 Ohm Terminator	33

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ELECTRICAL

Impedance	50 ohms
Frequency range	0-10 GHz
Voltage rating	250 Volts peak
Other	Contact resistance: Center contact 6 milliohm Outer contact 3 milliohm Insulation resistance: 10000 megohms

ENVIRONMENTAL

Temperature range	- 40°C to +155°C
Connector Durability	500 matings

MECHANICAL

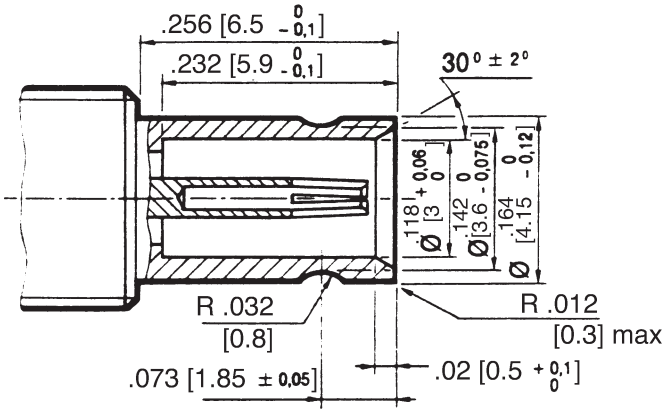
Mating	Slide-On Push-Pull Threaded
Cable affixment (braid or jacket)	Hex crimp
Cable affixment (center conductor)	Crimp or solder
Captivated contacts	All crimps

MATERIAL

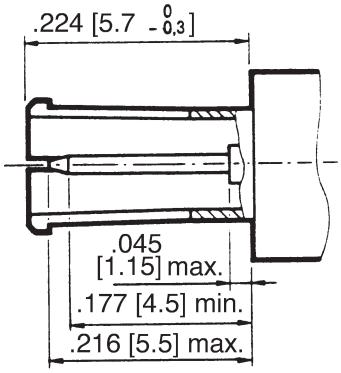
Contacts	Male: Brass Female: (center and outer) Beryllium copper. Gold plated
Other metal parts	Brass, nickel plated
Insulators	Teflon
Crimp ferrule	Copper

NOTE: These characteristics are typical and may not apply to all connectors.

Plug



Jack

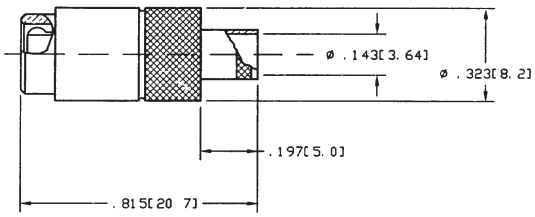


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Straight Cable Plugs for Semi-Rigid & Flexible Cable

Fig. 1

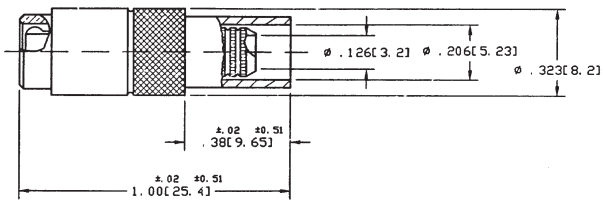




Straight Push-Pull Plugs
Solder to Body
102-799-41
for .141 (3.6mm) SR RG 402
102-799-85
for .085 (2.2mm) SR RG 405

Fig. 2

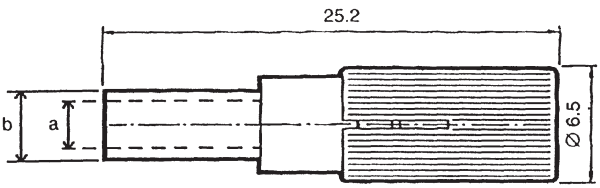




Straight Push-Pull Plugs
Braid Crimp Solder Contact
102-799-04
for RG 58
102-799-04DB
for RG 142
102-799-16
for RG 174, 179, 188, 316
102-799-16DB
for Double Braid RG 174, 316
102-799-20
for LMR200
102-799-48
for LMR 240

Fig. 3





Straight Screw-On Plug
102-920-06
for RG-174, 188, 316

1.0/2.3 CABLE PLUGS

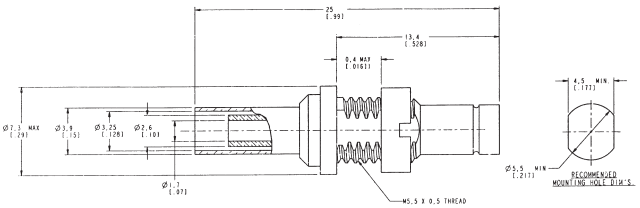
Cable	Cable Attachment		Dimensions, inches (mm)					Amphenol Number	Fig.
	Outer	Inner	a	b	CAI	PLI	Ins.		
.141 S/R RG 402	Solder	Solder	.815(20.7)	.143(3.64)	C78	P37	D1	102-799-41	1
.085 S/R RG 405	Solder	Solder	.815(20.7)	.090(2.3)	C78	P37	D1	102-799-85	1
RG 58	Crimp	Crimp	.984(25.0)	.206(5.23)	C79	P37	D1	102-799-04	2
RG 142B	Crimp	Solder	.984(25.0)	.216(5.5)	C79	P37	D1	102-799-04DB	2
RG 174, 179, 187, 188, 316	Crimp	Crimp	.984(25.0)	.128(3.25)	C79	P37	D1	102-799-16	2
RG 316 Double Braid	Crimp	Solder	.984(25.0)	.142(3.61)	C79	P37	D1	102-799-16DB	2
LMR200	Crimp	Solder	.984(25.0)	.206(5.23)	C79	P37	D1	102-779-20	2
LMR240	Crimp	Solder	1.38(35.0)	.261(6.63)	C79	P37	D1	102-779-48	2
RG 174, 188, 316	Crimp	Crimp	.992(25.2)	.128(3.25)	C79	P37	D1	102-920-06	3

• Accomodates cable diameter

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Fig. 1

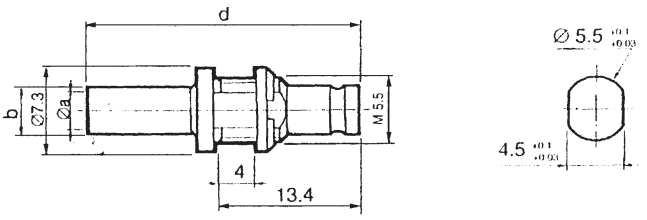




Straight Bulkhead Jack
102-913-06
for RG 174, 179, 316

Fig. 2

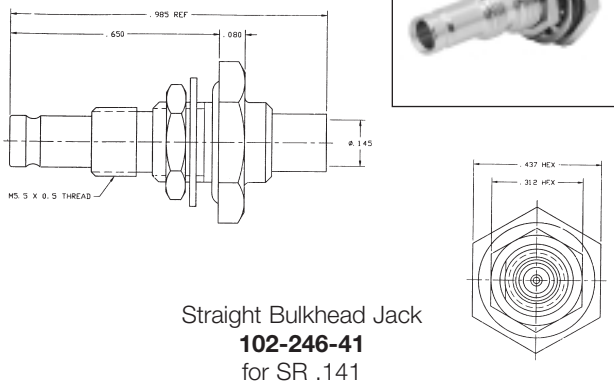




Straight Bulkhead Jack
102-913-18
mini-coax

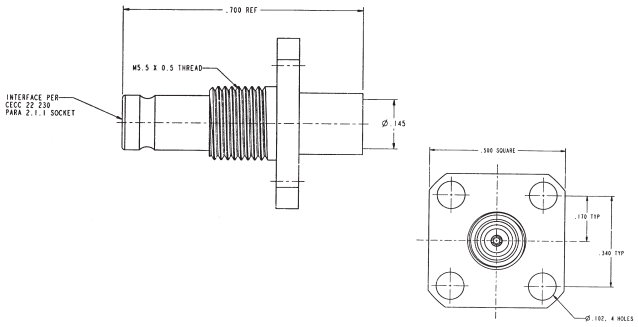
Fig. 3





Straight Bulkhead Jack
102-246-41
for SR .141
102-246-85
for SR .085

Fig. 4



Straight 4-Hole Flange Jack
102-243-41
for SR .141

1.0/2.3 CABLE PLUGS

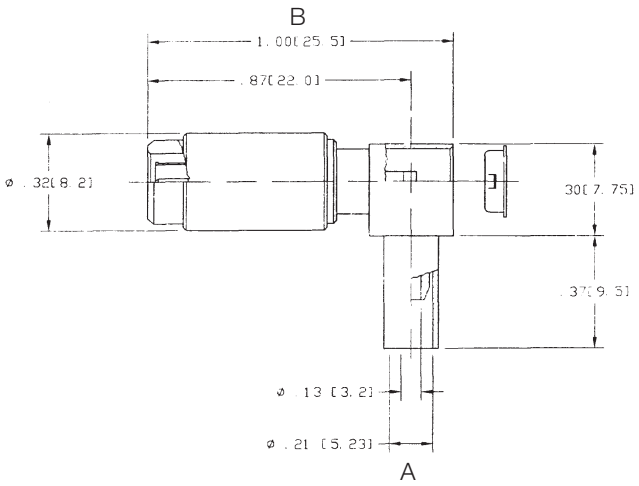
Cable	Cable Attachment		Dimensions, inches (millimeters)				Amphenol Number	Fig.
	Outer	Inner	a	CAI	Plt	Ins.		
RG 174, 179, 316	Crimp	Solder	.127(3.25)	C81	P11	D1	102-913-06	1
Mini Coax	Crimp	Solder	.098(2.50)	C81	P11	D1	102-913-18	2
SR .141	Solder	Solder	.143(3.63)	C78	P11	D1	102-246-41	3
SR .085	Solder	Solder	.090(2.28)	C78	P11	D1	102-246-85	3
SR .141	Solder	Solder	.143(3.63)	C78	P11	D1	102-243-41	4
RG 316 Double Braid	Crimp	Solder	.143(3.63)	C81	P11	D1	102-913-06DB	1

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Right Angle Cable Plugs & Jacks

Fig. 1

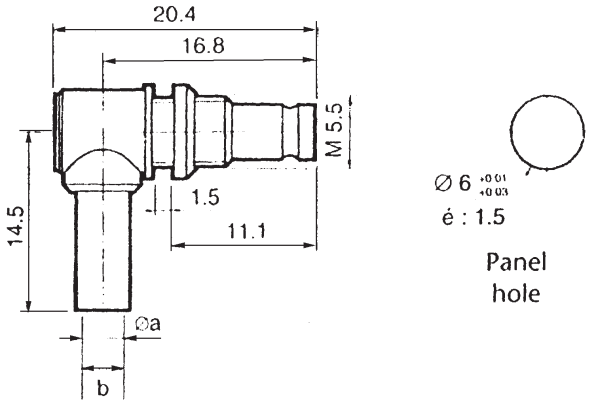




Push-Pull Angle Plugs

102-799-118
Mini-Coax
102-799-104
for RG-58
102-799-116DB
for RD 316
102-799-104DB
for RG-55, 142
102-799-185
for .085 2.2mm S/R RG-405
102-799-141
for .141 3.6mm S/R RG-402
102-799-116
for RG-316

Fig. 2



Angle Jacks
102-907-06
for RG 174, 179, 188, 316
102-907-34
for L 910/34 RG 180

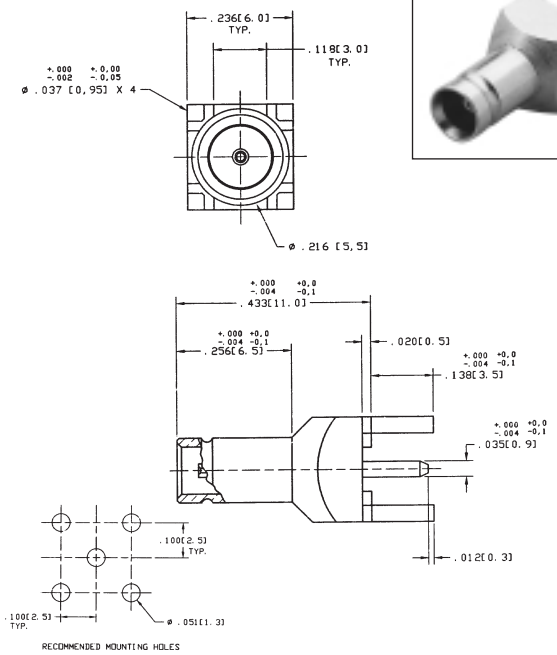
1.0/2.3 RIGHT ANGLE PLUGS & JACKS

Cable	Cable Attachment		Dimensions, inches (millimeters)					Amphenol Number	Fig.
	Outer	Inner	a	b	CAI	PLT	Ins.		
Mini-Coax	Crimp	Solder	.099(2.50)	1.00(25.5)	C80	P37	D1	102-799-118	1
RG 58	Crimp	Solder	.205(5.23)	1.00(25.5)	C80	P37	D1	102-799-104	1
RD 316	Crimp	Solder	.142(3.61)	1.00(25.5)	C80	P37	D1	102-799-116DB	1
RG-55, 142	Crimp	Solder	.161(4.10)	.803(20.4)	C80	P37	D1	102-799-104DB	1
RG 174, 179, 188, 316	Crimp	Solder	.128(3.25)	.803(20.4)	C80	P37	D1	102-907-06	2
L 910/34 RG 180	Crimp	Solder	.161(4.10)	.803(20.4)	C80	P37	D1	102-907-34	2
RG-405	Solder	Solder	.090(2.28)	.990(25.1)	C82	P37	D1	102-799-185	1
RG-402	Solder	Solder	.143(3.63)	.990(25.1)	C82	P37	D1	102-799-141	1
RG-316	Crimp	Solder	.128(3.25)	.990(25.1)	C80	P37	D1	102-799-116	1

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Fig. 1





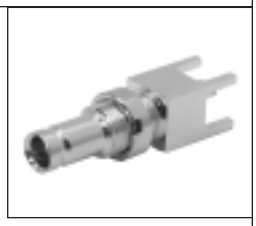
Straight PCB Jack Receptacles
102-692-01
3.5mm Legs (.138)

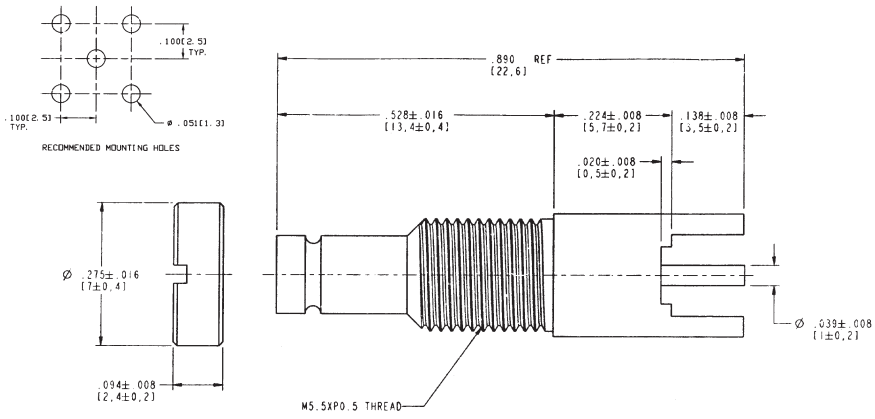
Fig. 2



Right Angle Bulkhead PCB Jack Receptacles
102-909-02
3.5mm Legs (.138)

Fig. 3





Straight PCB Bulkhead Jack Receptacles
102-692-10

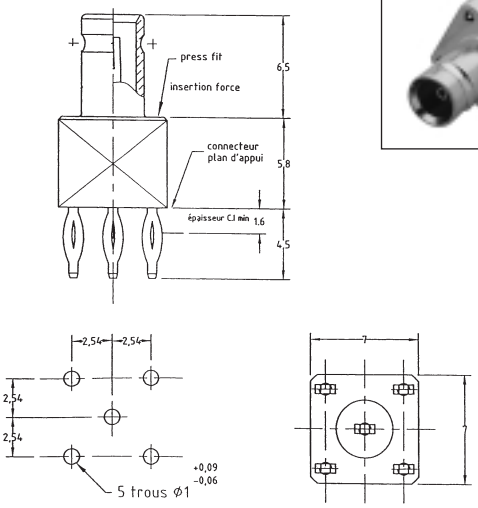
1.0/2.3 PCB JACK RECEPTACLES

Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig
PCB Straight Jack Receptacle	Blunt Post	D1	Gold plated body	102-692-01	1
PCB Straight Bulkhead Jack Receptacle	Blunt Post	D1	Gold plated body	102-692-10	3
PCB Bulkhead Angle Jack Receptacle	Blunt Post	D1	Gold plated body	102-909-02	2

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Fig. 1

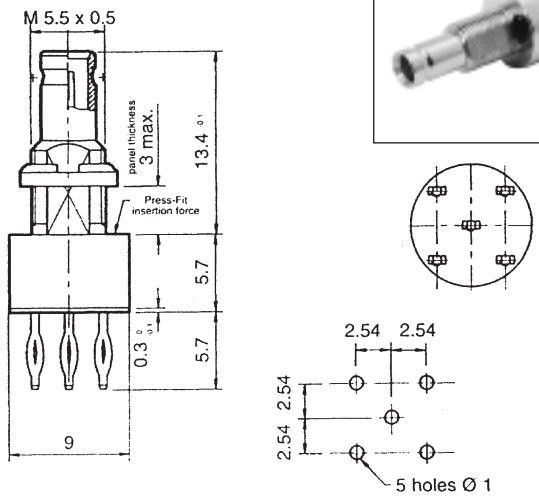




PCB Press Fit
Jack
102-811-06
4.5mm Legs (.177)

Fig. 2

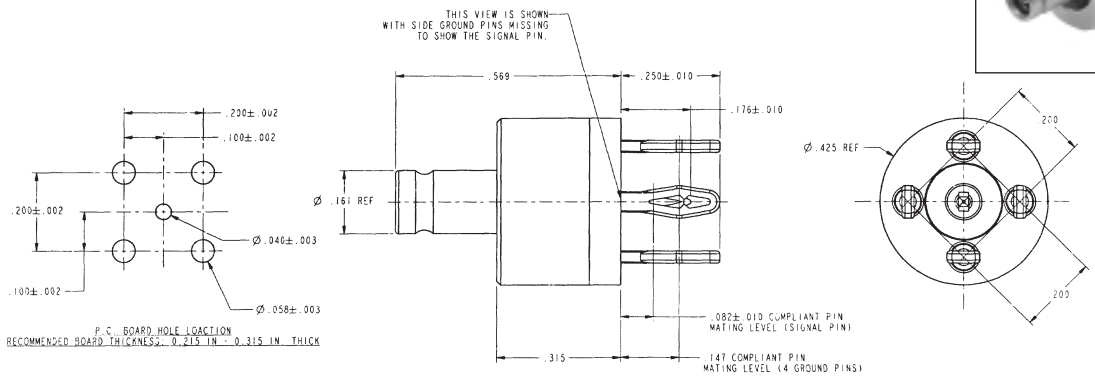




PCB Press Fit
Bulkhead Jack
102-811-03
4.5mm Legs (.177)

Fig. 3





PCB Press Fit
Jack
102-909-D100

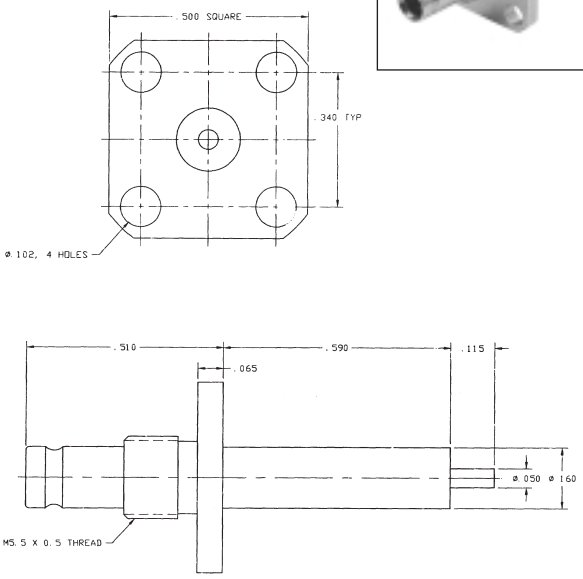
1.0/2.3 PCB PRESS FIT JACK

Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig
PCB Press Fit Receptacle	Compliant Pin	D1	Gold plated body	102-811-06	1
PCB Press Fit Bulkhead Receptacle	Compliant Pin	D1	Gold plated body	102-811-03	2
PCB Press Fit Jack	Compliant Pin	D1	Gold plated body	102-909-D100	3

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Fig. 1

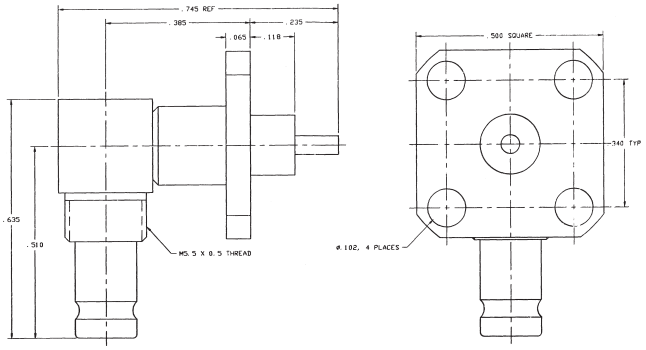




Straight 4-Hole Flange
102-233-01
102-233-10
102-233-20
102-233-30

Fig. 2





Right Angle & 4-Hole Flange
102-245-01
102-245-10
102-245-20

1.0/2.3 4-HOLE FLANGE JACKS

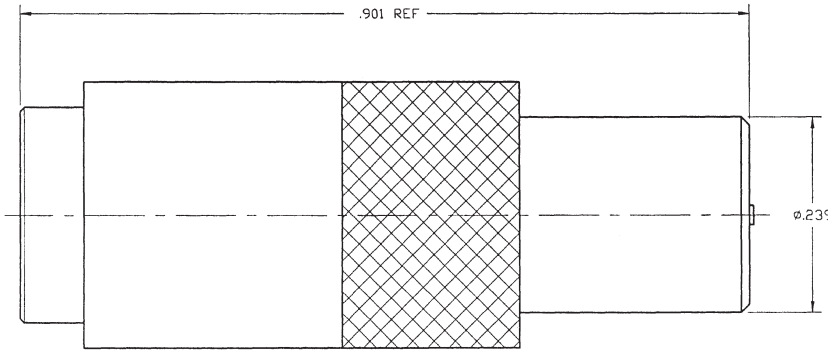
Description	Terminal Type	Ins.	Dimensions, inches (mm) a	Dimensions, inches (mm) b	Construction Notes	Amphenol Number	Fig
Straight 4-Hole Flange	Blunt Post	D1	.590	.705	Gold Plated	102-233-01	1
Straight 4-Hole Flange	Blunt Post	D1	.240	.380	Gold Plated	102-233-10	1
Straight 4-Hole Flange	Blunt Post	D1	.350	.490	Gold Plated	102-233-20	1
Straight 4-Hole Flange	Blunt Post	D1	.170	.310	Gold Plated	102-233-30	1
Right Angle 4-Hole Flange	Blunt Post	D1	.118	.235	Gold Plated	102-245-01	2
Right Angle 4-Hole Flange	Blunt Post	D1	.210	.420	Gold Plated	102-245-10	2
Right Angle 4-Hole Flange	Blunt Post	D1	.200	.550	Gold Plated	102-245-20	2

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50 Ohm Terminator

Fig. 1





50 Ω Terminator
102-799-050

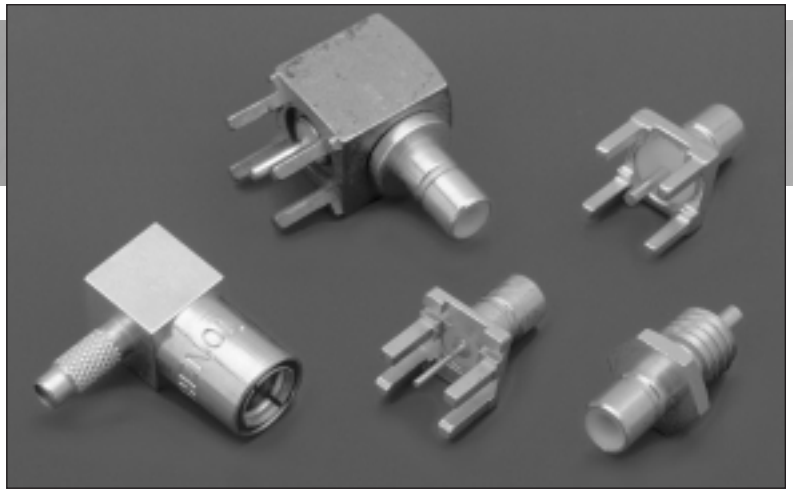
50 Ohm Terminator

Description	F(GHz)	Power	VSWR	Ins	Construction Notes	Amphenol Number	Fig
50 Ω Terminator	O-4	1/4Watt	1.1 + .05 F (GHz)	D1	Push Pull Coupling	102-799-050	1

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Notes

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Description

The SMB name derives from SubMiniature B (the second subminiature design). The SMB was developed in the 1960's.

SMB is a smaller version of the SMA with snap-on coupling.

Amphenol's SMB connectors conform to the requirements of MIL-C-39012 and their interface is in compliance with MIL-STD-348.

Available in 50 & 75 ohm impedance

SMB provides broadband capability through 4 GHz with a snap-on connector design and utilizes die cast components on non-critical areas to provide a low cost solution.

Features and Benefits

- Broadband performance with low reflection DC to 4 GHz provides low cost connector combined with high quality.
- Quick connect/disconnect snap-on mating reduces installation time.
- Availability in 50 Ohm, 75 Ohm & High Density 75 Ohm ensures customer a solution to specific applications.
- Various plating options: Nickel, Gold, Tin Lead. Also selective plating provides corrosion resistance finish as well as good solderability characteristics.
- SMB PCB slide-on plug and jack allows board to board mounting with a low insertion force. Ideal for mating a high number of connectors on a pair of PCBs.

Application

- Antennas
- Automotive (GPS)
- Base Stations
- Cable Assemblies
- Components
- Instrumentation
- PC/LAN
- Process Controls
- Radio Boards
- Surge Protection
- Telecom
- Test and Measurement
- Video Systems

50 ohm Coaxial Connectors

Specifications	36
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Jacks	38
Bulkhead Receptacles	39-40
PCB Receptacles	41-43

75 ohm Coaxial Connectors

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75 ohm High Density Coaxial Connectors

Specifications	47
Plugs	48
PCB Receptacles	49

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ELECTRICAL

Impedance	50 ohms
Frequency range	0-4 GHz with low reflection; usable to 10.0 GHz.
Voltage rating for RG-188/U cables	Sea level: 335 volts 70,000 ft: 85 volts
Dielectric withstanding voltage	750 VRMS RG-196 type 1000 VRMS for RG-188 type
VSWR	RG-196/U series
straight connectors rt. angle connectors	1.30 + .04 f (GHz) 1.45 + .06 f (GHz)
	RG-188/U series
straight connectors rt. angle connectors	1.25 + .04 f (GHz) 1.35 + .04 f (GHz)
Contact resistance	Center contact: initial, 6.0 milliohms; After environmental, 8.0 Outer contact: initial, 1.0 milliohms; After environmental, 1.5 Braid to body: initial, 1.0 milliohms; After environmental, N/A
Insulation resistance	1000 megohms min.
RF leakage	-55 dB min. @ 2 - 3 GHz
Insertion loss: straight connectors rt. angle connectors	 0.30 dB @ 1.5 GHz 0.60 dB @ 1.5 GHz

MECHANICAL

Mating	50 ohm snap-on coupling, per MIL-STD-348
Engagement forces	Initial 14 lbs. max. engagement. After 500 matings, 14 lbs. max engagement and disengagement. 2 lbs. min. disengagement.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Cable retention	Equal to breaking strength of cable employed
Connector durability	500 mating and unmating cycles min.

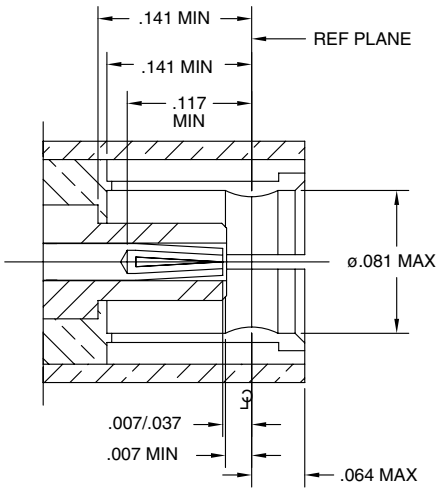
ENVIRONMENTAL

Temperature range	-65°C to + 165°C
Thermal shock	MIL-STD-202 method 107 (test cond. B) except high temp test @ + 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. B) (15G's)
Shock	MIL-STD-202 method 213, snap-on (test cond. B) 75 G's @ 6 milliseconds 1/2 sine.
Corrosion	MIL-STD-202 method 101 (test cond. B) 5% salt solution.

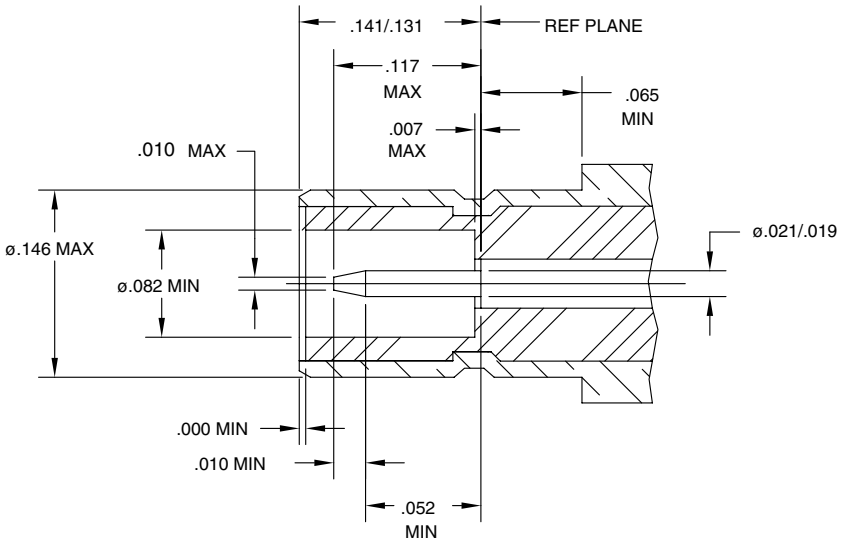
MATERIAL

Bodies	Brass per QQB-626 or zinc per ASTM B86-71, as specified, nickel (or gold) plated as listed
Center contacts	Female: beryllium copper, gold plated Male: brass or beryllium copper, gold plated
Outer contact	Nickel or gold plated as listed.
Crimp ferrules	Annealed copper alloy
Insulators	TFE

PLUG



JACK



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50 ohm Coaxial Connectors

Fig. 1

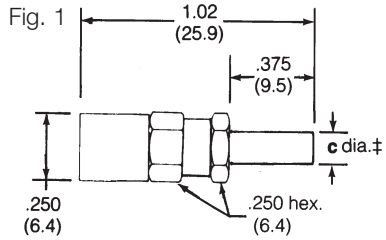


Fig. 1



Fig. 1A

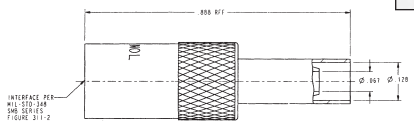
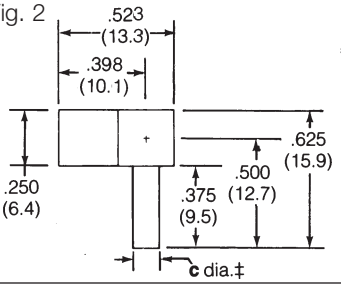


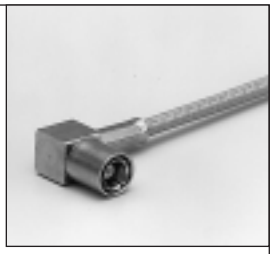
Fig. 1A



50Ω SMB Plugs - Braid Crimp/Solder Female Contact		
RG-174,179, 187,188, 316	**903-285P-51S**	Gold Plated
	903-508P-51S●	Gold Plated
	903-370P-51S▲	Nickel Plated
	903-577P-51S1✳	Nickel Plated
	903-577P-51S✳	Gold Plated
RG-178,196	**903-287P-51S**	Gold Plated
	903-509P-51S●	Gold Plated
	903-371P-51S▲	Nickel Plated
	903-578P-51S✳	Gold Plated
	903-578P-51S1✳	Nickel Plated
Dbl. Br. RG-316	**903-401P-51S**	Gold Plated
	903-579P-51S✳	Gold Plated
	903-579P-51S1✳	Nickel Plated

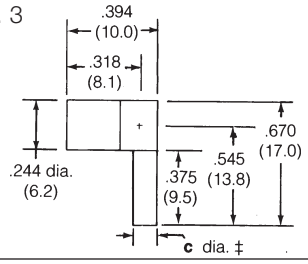
Fig. 2





50Ω SMB Angle Plugs - Braid Crimp/Solder Female Contact		
RG-174 179, 187, 188, 316	**903-289P-51A**	Gold Plated
	903-289P-51A2▲✳	Gold Plated
	903-367P-51A	Nickel Plated
	903-367P-51A1	Nickel Plt. Body, Gold Plt Outer Cont.
	903-367P-51A2▲✳	Nickel Plated
RG-178, 196	**903-291P-51A**	Gold Plated
	903-291P-51A1▲✳	Gold Plated
	903-368P-51A	Nickel Plated
	903-368P-51A1▲✳	Nickel Plated
Dbl. Br. RG-316	**903-369P-51A**	Nickel Plated
	903-369P-51A2✳	Nickel Plated

Fig. 3





50Ω SMB Low Profile Angle Plugs, Braid Crimp/Solder Female Contact		
RG-174,179, 187,188, 316	**903-429P-51A**	Gold Plated

50 ohm SMB PLUGS & ANGLE PLUGS

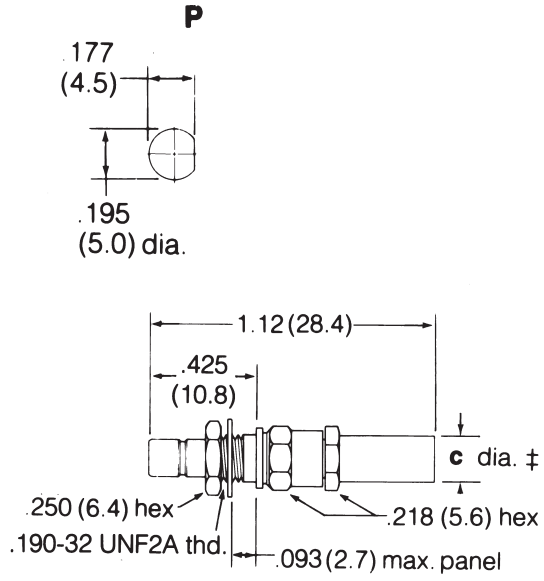
Cable RG-/U	Connector Description	Cable Attachment Outer	Cable Attachment Inner	c Dia. In. (mm)	CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
RG-174,179,187, 188,316	Plug	Crimp	Solder	.128(3.3)‡	C60	P11	D1	Gold Plated Body	**903-285P-51S**	1
				.128(3.3)‡	C62	P11	D1	Gold Plated Body	● **903-508P-51S**	1A
				.128(3.3)‡	C60	P15	D1	Nickel Plated Body	▲ **903-370P-51S**	1
				.128(3.3)‡	C60	P15	D1	Nickel Plated Body	✳ **903-577P-51S1**	1
				.128(3.3)‡	C60	P15	D1	Gold Plated Body	✳ **903-577P-51S**	1
	Angle Plug	Crimp	Solder	.128(3.3)‡	C61	P11	D1	Gold Plated Body	**903-289P-51A**	2
				.128(3.3)‡	C61	P11	D1	Gold Plated Body	●▲✳ **903-289P-51A2**	2
				.128(3.3)‡	C61	P15	D1	Nickel Plated Body	**903-367P-51A**	2
				.128(3.3)‡	C61	P15	D1	Nickel Plated Body	●▲✳ **903-367P-51A2**	2
				.128(3.3)‡	C61	P15	D1	Nickel Plated Body ★	**903-367P-51A1**	2
	Low Profile Angle Plug	Crimp	Solder	.128(3.3)‡	C61	P26	D1	Nickel Plated Body ★	**903-429P-51A**	3
RG-178,196	Plug	Crimp	Solder	.100(2.5)‡	C60	P11	D1	Gold Plated Body	**903-287P-51S**	1
				.100(2.5)‡	C62	P11	D1	Gold Plated Body	● **903-509P-51S**	1A
				.100(2.5)‡	C60	P15	D1	Nickel Plated Body	**903-371P-51S**	1
				.100(2.5)‡	C60	P15	D1	Gold Plated Body	✳ **903-578P-51S**	1
				.100(2.5)‡	C60	P15	D1	Nickel Plated Body	✳ **903-578P-51S1**	1
	Angle Plug	Crimp	Solder	.100(2.5)‡	C61	P11	D1	Gold Plated Body	**903-291P-51A**	2
				.100(2.5)‡	C61	P11	D1	Gold Plated Body	●▲✳ **903-291P-51A1**	2
				.100(2.5)‡	C61	P15	D1	Nickel Plated Body	**903-368P-51A**	2
				.100(2.5)‡	C61	P15	D1	Nickel Plated Body	●▲✳ **903-368P-51A1**	2
Dbl. Braid 316	Angle Plug	Crimp	Solder	.142(3.6)‡	C61	P22	D1	Nickel Plated Body	**903-369P-51A**	2
				.142(3.6)‡	C61	P15	D1	Nickel Plated Body	● ✳ **903-369P-51A2**	2
	Plug	Crimp	Solder	.142(3.6)‡	C60	P11	D1	Gold Plated Body	**903-401P-51S**	1
				.142(3.6)‡	C60	P11	D1	Gold Plated Body	✳ **903-579P-51S**	1
				.142(3.6)‡	C60	P11	D1	Gold Plated Body	✳ **903-579P-51S1**	1

‡ i.d. of outer crimp ferrule ★ Gold plated outer contact ▲ Distributor stocked ✳ Diecast outer body ● Commercial grade

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Fig. 1



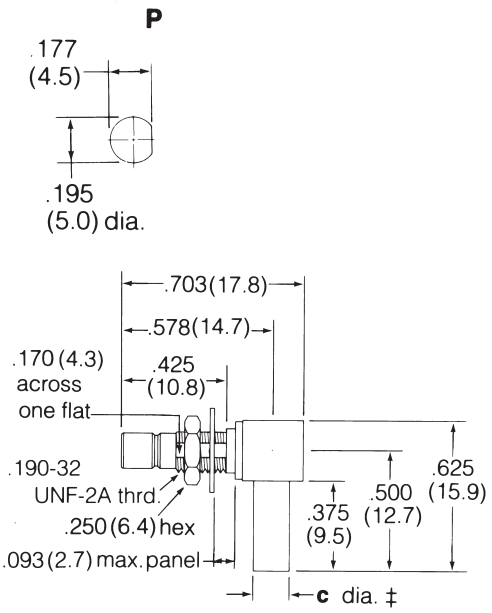


50Ω SMB Bulkhead Jacks
Braid Crimp/Solder Male Contact

RG-174,179, 187,188, 316	**903-505J-51S** ▲● Gold Plated
Dbl. Shield 316	**903-505J-51S1** ▲● Gold Plated

Fig. 2





50Ω SMB Angle Bulkhead Jacks
Braid Crimp/Solder Male Contact

RG-174,179, 187,188, 316	**903-422J-51A** Gold Plated
Dbl. Shield 316	**903-422J-51A2** Gold Plated

50 ohm SMB BULKHEAD & ANGLE BULKHEAD JACKS

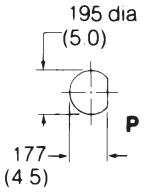
Cable RG-/U	Connector Description	Cable Attachment		c Dia. In. (mm)	MTG Hole	CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner								
RG-174,179,187, 188,316	Bulkhead Jack	Crimp	Solder	.128(3.3)‡	P	C60	P15	D1	Gold Plated Body	▲● **903-505J-51S**	1
	Angle Bulkhead Jack	Crimp	Solder	.128(3.3)‡	P	C61	P11	D1	Gold plated Body	**903-422J-51A**	2
Dbl. Shield 316	Bulkhead Jack	Crimp	Solder	.142(3.6)‡	P	C60	P15	D1	Gold Plated Body	▲● **903-505J-51S1**	1
	Bulkhead Jack	Crimp	Solder	.142(3.6)‡	P	C61	P15	D1	Gold Plated Body	**903-422J-51A2**	2

▲ Distributor stocked ● Commercial grade

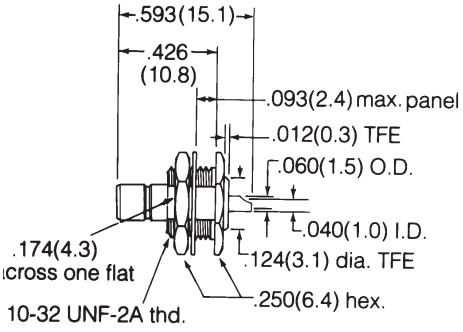
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50 ohm Bulkhead Receptacles

Fig. 1

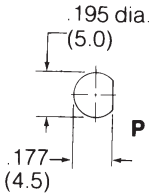




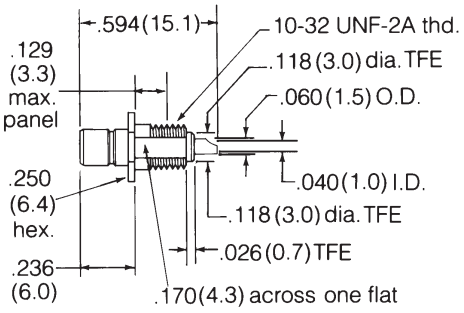


SMB Bulkhead Receptacle-Rear Mount
Male Contact/Solder Cup Terminal
903-305J-51R Gold Plated

Fig. 2



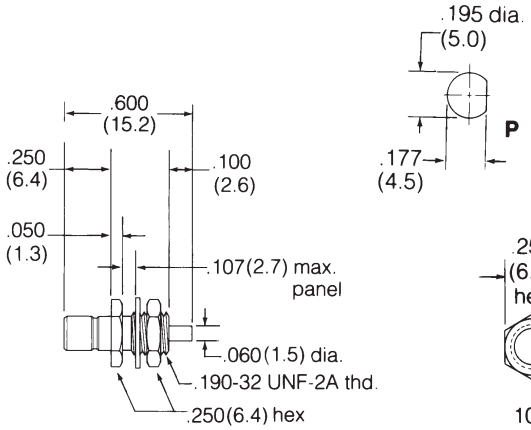




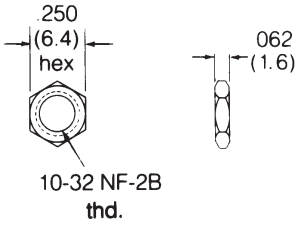
SMB Bulkhead Receptacle-Front Mount
Male Contact/Solder Cup Terminal
903-406J-51R ▲❑ Gold Plated

Fig. 3

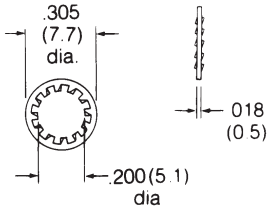




SMB Bulkhead Receptacle
Front Mount
Male Contact/Post Terminal
903-402J-51R ●▲❑ Gold Plated



Jam Nut for SMB Receptacles
903-10408-1 Gold Plated
903-10408-2 Nickel Plated



Lockwasher for SMB Receptacles
903-10409-1 Gold Plated
903-10409-2 Nickel Plated

50 ohm SMB BULKHEAD JACK RECEPTACLES & ACCESSORIES – captive male contacts

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
Bulkhead Jack Receptacle, Rear Mount	Solder Cup	P	P9	D1	Gold Plated Body	903-305J-51R	1
Bulkhead Jack Receptacle, Front Mount	Solder Cup	P	P11	D1	Gold Plated Body	▲❑ 903-406J-51R	2
Bulkhead Jack Receptacle, Front Mount	Blunt Post	P	P9	D1	Gold Plated Body	●▲❑ 903-402J-51R	3
Jam Nut	—	—	—	—	See Fig. 3	903-10408-1, -2	3
Lockwasher	—	—	—	—	See Fig. 3	903-10409-1, -2	3

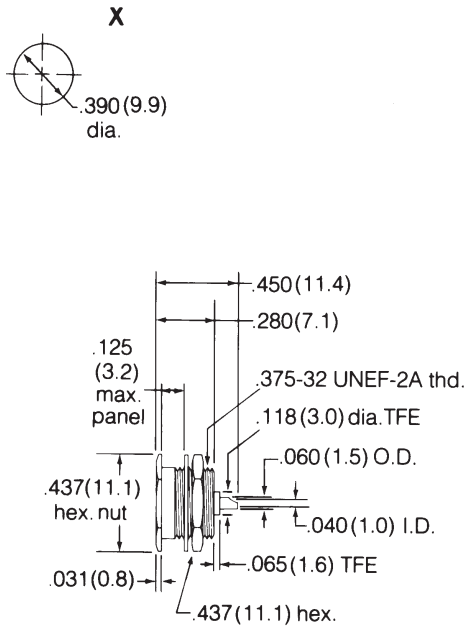
▲ Distributor stocked ❑ Jam Nut and Lockwasher sold separately. ● Commercial grade

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50 ohm Bulkhead Receptacles

Fig. 1

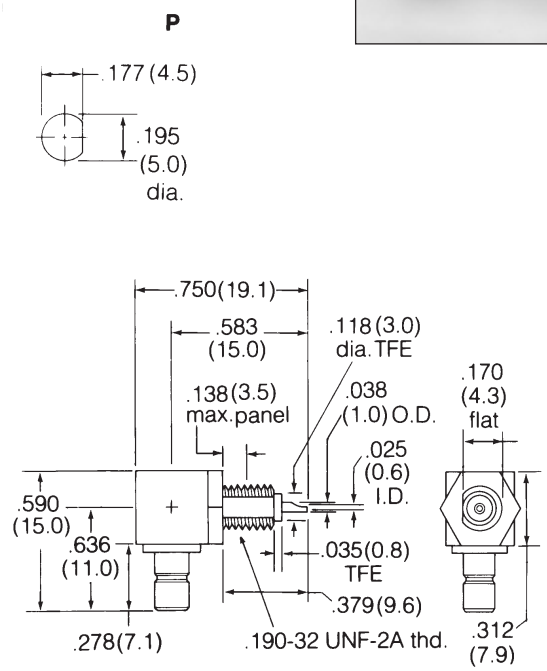




SMB Recessed Bulkhead Jack Receptacle
Front Mount/Male Contact/Solder Cup Terminal
903-407J-51R Gold Plated

Fig. 2





SMB Angle Bulkhead Jack Receptacle
Front Mount/Male Contact/Solder Cup Terminal
903-416J-51▲❑ Gold Plated

50 ohm SMB BULKHEAD JACK RECEPTACLES – captive male contacts

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
Recessed Bulkhead Jack Receptacle, Front Mount	Solder Cup	X	P11	D1	Gold Plated Body	903-407J-51R	1
Angle Bulkhead Jack Receptacle, Front Mount	Solder Cup	P	P11	D1	Gold Plated Body	▲❑ 903-416J-51R	2

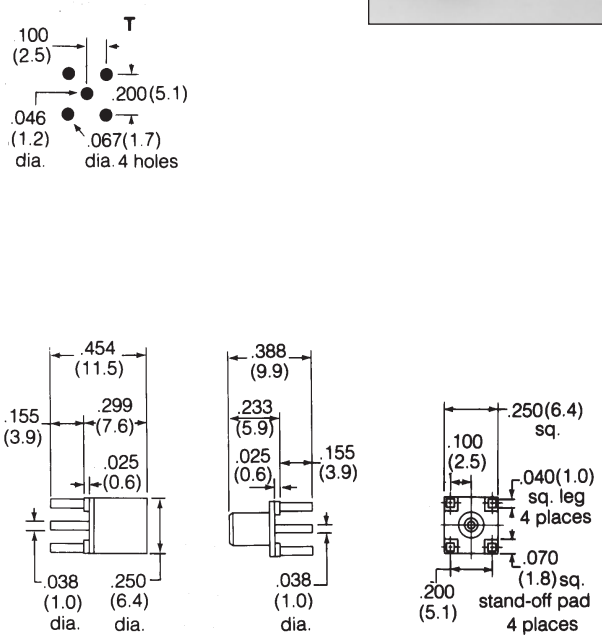
▲ Distributor stocked ❑ Jam Nut and Lockwasher sold separately

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50 ohm PCB Receptacles

Fig. 1

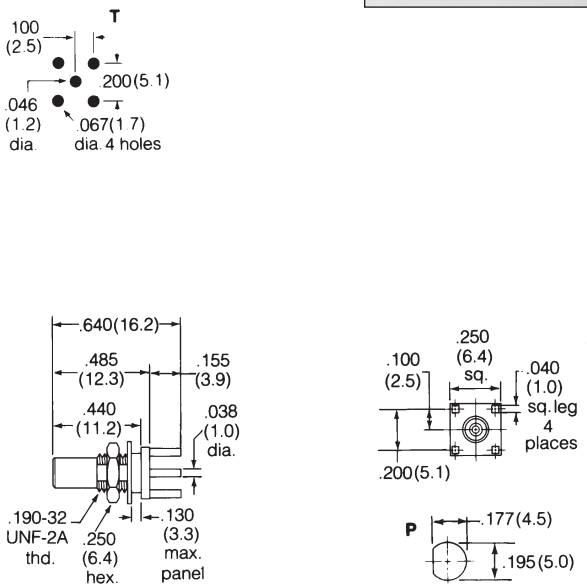




SMB PCB Slide-on Board-to-Board
Interconnect for .360"(9mm) Bd. Spacing
Plug: **903-410P-53P** Gold Plated
Jack: **903-409J-53P** Gold Plated

Fig. 2





SMB PCB Bulkhead Jack Receptacle
Male Contact/Post Terminal/Four Legs
903-375J-53P Nickel Plated

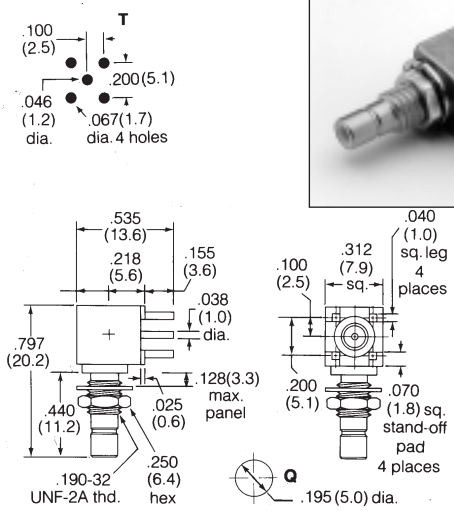
50 ohm SMB BULKHEAD JACK AND PRINTED CIRCUIT RECEPTACLES – captive male contacts

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
PCB Slide-on Board-to-Board Interconnect for .360"(9mm) Bd. Spacing/Four Legs	Blunt Post	T	P9	D1	Plug/Gold Plated	903-410P-53P	1
					Jack/Gold Plated	903-409J-53P	
PCB Bulkhead Jack Receptacle/,Four Legs	Blunt Post	T/P	P6	D1	Nickel Body/No Stand-off Pads	903-375J-53P	2

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Fig. 1

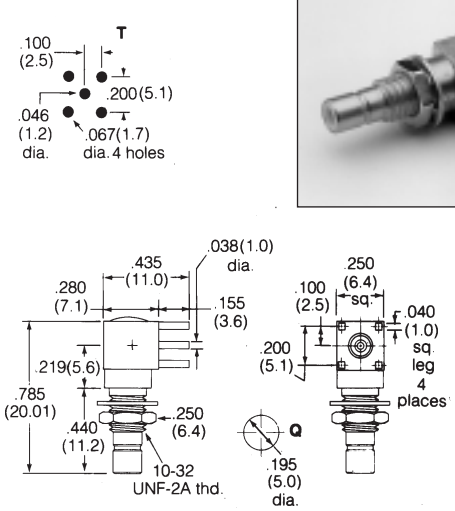




SMB PCB Angle Bulkhead Receptacle
Male Contact/Four Legs/Leak Tight
903-413J-51A
Tin Lead Plated Cube Body & Legs,
Gold Plated Interface & Contact

Fig. 2

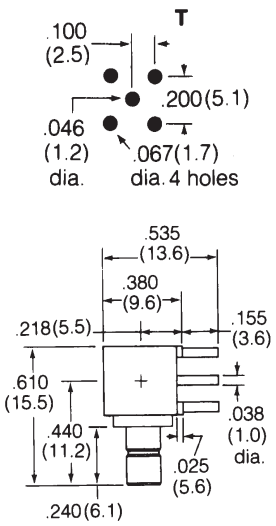


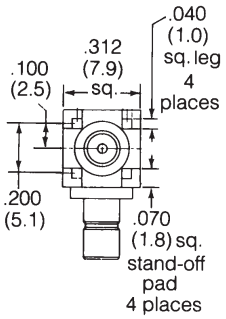


SMB PCB Angle Bulkhead Receptacle
Male Contact/Four Legs/No Stand-off Pads
903-376J-51A
Tin Lead Plated Cube Body & Legs,
Gold Plated Interface & Contact

Fig. 3







SMB PCB Angle Jack Receptacle
Male Contact/Four Legs/Leak Tight
903-373J-51A ▲
Tin Lead Plated Cube Body & Legs,
Gold Plated Interface & Contact

50 ohm SMB BULKHEAD JACK AND PRINTED CIRCUIT RECEPTACLES – captive male contacts

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
PCB Angle Bulkhead Jack Receptacle, Four Legs/Leak Tight	Blunt Post	T/Q	P16	D1	Tin Lead Plt. Cube Body & Legs Gold Plt. Interface & Contact	903-413J-51A	1
PCB Angle Bulkhead Jack Receptacle, Four Legs/No Stand-off Pads	Blunt Post	T/Q	P16	D1	Tin Lead Plt. Cube Body & Legs Gold Plt. Interface & Contact	903-376J-51A	2
PCB Angle Jack Receptacle Four Legs/Leak Tight	Blunt Post	T	P16	D1	Tin Lead Plt. Cube Body & Legs Gold Plt. Interface & Contact	▲ 903-373J-51A	3

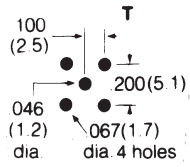
▲ Distributor stocked ● Commercial grade

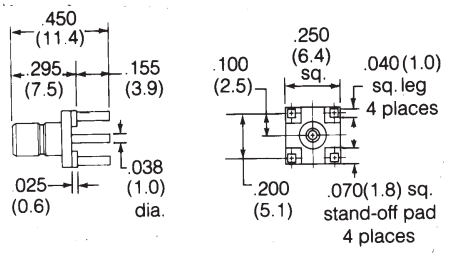
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50 ohm PCB Receptacles

Fig. 1



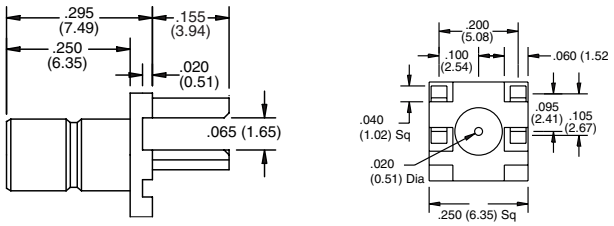




SMB PCB Receptacle Jack
Post Terminal/Four Legs
903-415J-51P Gold Plated
903-499J-51P3✳ Tin Plated Body & Legs
903-499J-51P2▲✳ Gold Plated

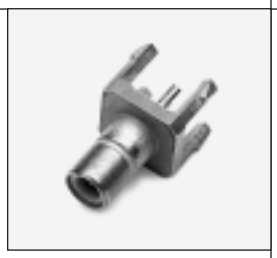
Fig. 2

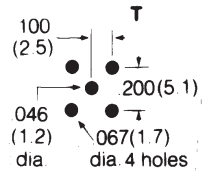


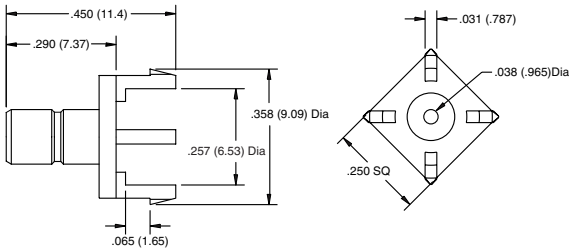


50Ω SMB PCB End Mount Jack Receptacle
Male Contact/Blunt Post Terminal
903-518J-51P Gold Plated
Gold Plated Contact

Fig. 3

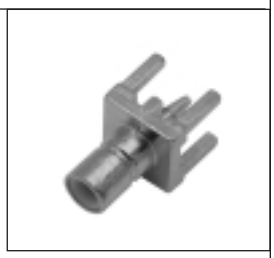


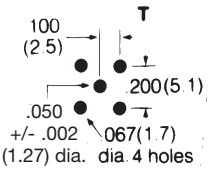


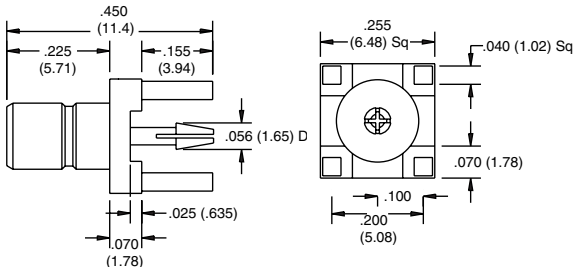


SMB PCB Jack Receptacle
Board Lock
903-515J-51P Tin Lead Plt Body, Gold Plated Contact

Fig. 4







SMB PCB Receptacle Jack
Board Lock
903-499J-51P▲✳ Gold Plated
903-499J-51P1✳ Nickel Plated

50 ohm SMB PRINTED CIRCUIT RECEPTACLES

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
PCB Jack Receptacle/Four Legs	Blunt Post	T	P11	D1	Gold Plated Body	903-415J-51P	1
					Gold Plated Body	▲✳ 903-499J-51P2	
			P6		Tin Plated Body, Gold Plt. contact	✳ 903-499J-51P3	
PCB Bulkhead Jack Receptacle/,Four Legs	Blunt Post	T	P9	D1	Gold Plt. Body	903-518J-51P	2
PCB Bulkhead Jack Receptacle/,Four Legs	Blunt Post	T	P9	D1	Tin Lead Plt Body, Gold Plt. contact	903-515J-51P	3
PCB Bulkhead Jack Receptacle	Board Lock	T	P11	D1	Gold Plated Body	▲✳ 903-499J-51P	4
PCB Bulkhead Jack Receptacle	Board Lock	T	P11	D1	Nickel Plated Body	✳ 903-499J-51P1	

▲ Distributor stocked ✳ Die cast outer body

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Amphenol standard 75 ohm SMB 903 series connectors are constructed in accordance with the requirements of MIL-C-39012 and their interface is in compliance with MIL-STD-348. These subminiature units feature positive lock mating as well as snap-on mating faces.

They are available in a variety of configurations and styles. This series has broadband performance with low reflection.

MATERIAL

Bodies	Brass per QQB-626, as specified, nickel (or gold) plated as listed
Center contacts	Female: beryllium copper, gold plated Male: brass or beryllium copper, gold plated
Outer contact	Nickel or gold plated as listed.
Crimp ferrules	Annealed copper alloy
Insulators	TFE

SPECIFICATIONS

ELECTRICAL

Impedance	75 ohms
Frequency range	0-4 GHz with low reflection; usable to 10.0 GHz.
Voltage rating for RG-188/U cables	Sea level: 335 volts 70,000 ft: 85 volts
Dielectric withstanding voltage	1,000 VRMS
RF high potential withstanding voltage	RG-195/U series 500 VRMS
Corona level	RG-195/U series 400 min. volts @ 70K ft.
VSWR straight connectors right angle connectors	RG-196/U series 1.30 + .04 f (GHz) RG-188/U series 1.25 + .04 f (GHz) RG-196/U series 1.45 + .06 f (GHz) RG-188/U series 1.35 + .04 f (GHz)
Contact resistance	Center contact: initial, 6.0 milliohms; After environmental, 8.0 Outer contact: initial, 1.0 milliohms; After environmental, 1.5 Braid to body: initial, 1.0 milliohms; After environmental, N/A
Insulation resistance:	1000 megohms min.
RF leakage	-55 dB min. @ 2 - 3 GHz
Insertion loss: straight right angle	 0.30 dB @ 1.5 GHz 0.60 dB @ 1.5 GHz

* These characteristics are typical and may not apply to all connectors.

This series is also called SMZ.

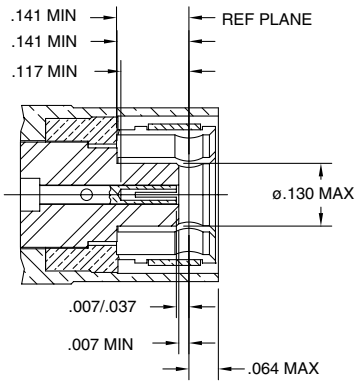
MECHANICAL

Mating	75 ohm snap-on coupling, per MIL-STD-348
Engagement forces	Initial 14 lbs. max. engagement. After 500 matings, 14 lbs. max engagement and disengagement. 2 lbs. min. disengagement.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Cable retention	Equal to breaking strength of cable employed
Connector durability	500 mating and unmating cycles min.

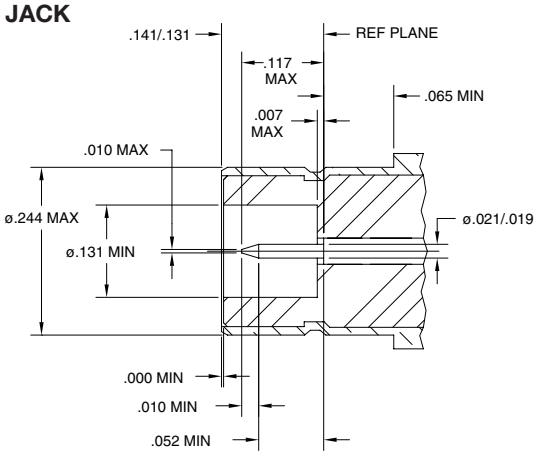
ENVIRONMENTAL

Temperature range	-65°C to + 165°C
Thermal shock	MIL-STD-202 method 107 (test cond. B) except high temp test @ + 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. B) (15G's)
Shock	MIL-STD-202 method 213, snap-on (test cond. B) 75 G's @ 6 milliseconds 1/2 sine.
Corrosion	MIL-STD-202 method 101 (test cond. B) 5% salt solution.

PLUG



JACK



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75 ohm Coaxial Connectors

Fig. 1

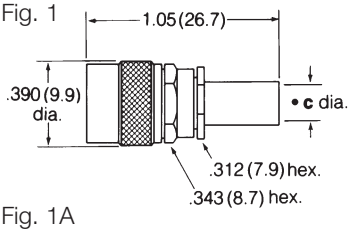


Fig. 1



Fig. 1A

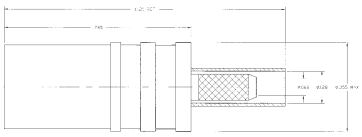


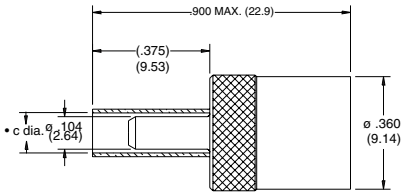
Fig. 1A



75Ω SMB Plug
Braid Crimp/Solder Female Contact
903-152P-71S7 Positive Lock for 735A Cable
903-152P-71S Positive Lock for RG-180, 195
Gold Plated Body, Nickel Plt. Cpl. Ring
903-152P-71S3 Positive Lock for RG-179
Gold Plated Body, Nickel Plt. Cpl. Ring
903-574P-71S Positive Lock for RG-179
903-575P-71S Positive Lock for RD-179

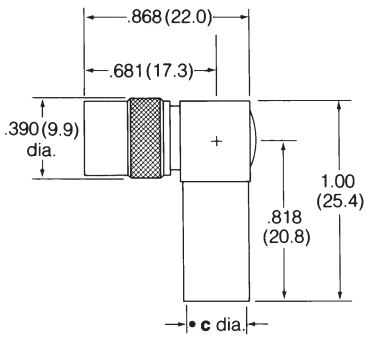
Fig. 2





75Ω SMB Plug
Braid Crimp/Solder Female Contact/Gold Plt.
903-502P-71S for RG-179, Nickel Plated Body

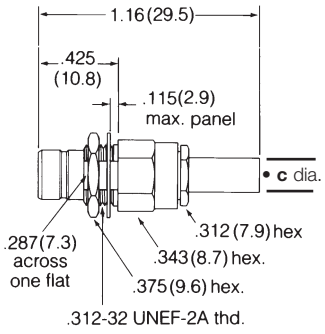
Fig. 3



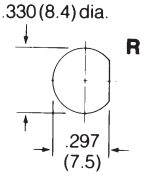


75Ω SMB Angle Plug
Braid Crimp/Solder Female Contact
903-495P-71A Positive Lock for Belden 1694A RG-6 Type,
Gold Plated Body, Nickel Plt. Cpl. Ring

Fig. 4







75Ω SMB Bulkhead Jack
Braid Crimp/Solder
Male Contact/Gold Plated
903-108J-71S for RG-179

75 ohm SMB PLUGS, ANGLE PLUGS & BULKHEAD JACKS

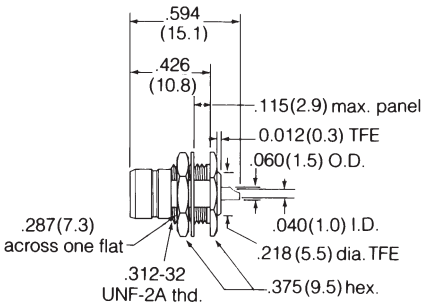
Cable RG-/U	Connector Description	Cable Attachment		c Dia In. (mm)	MTG Hole	CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner								
RG-179	Bulkhead Jack	Crimp	Solder	.128(3.3)‡	R	C60	P9	D1	Gold Plated Body	**903-108J-71S**	4
	Plug (Positive Lock)	Crimp	Solder	.128 (3.3)	—	C60	P9	D1	Nickel Plt coupling Ring	**903-152P-71S3**	1
	Plug (Positive Lock)	Crimp	Solder	.128 (3.3)	—	C60	P9	D1	Nickel Plt coupling Ring	**903-574P-71S**	1
RD-179	Plug (Positive Lock)	Crimp	Solder	.128 (3.3)	—	C60	P9	D1	Nickel Plt coupling Ring	**903-575P-71S**	1
RG-174, 179, 187, 188, 316	Plug	Crimp	Solder	.128(3.3)‡	—	C60	PCF	D1	Nickel Plated Body Nickel Plt Coupling Ring	**903-502P-71S**	2
RG-180, 195	Plug (Positive Lock)	Crimp	Solder	.180(4.6)‡	—	C60	PCF	D1	Gold Plated Body Nickel Plt Coupling Ring	**903-152P-71S**	1
Amphenol 621-4460-75	Angle Plug (Positive Lock)	Crimp	Solder	.300(7.6)‡	—	C61	PCF	D1	Gold Plated Body	**903-495P-71A**	3
735A	Plug (Positive Lock)	Crimp	Solder	.175(4.4)	—	C60	P9	D1	Gold Plated Body	**903-152P-71S7**	1

‡ i.d. of outer crimp ferrule

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Fig. 1

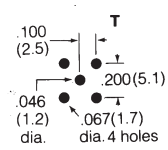


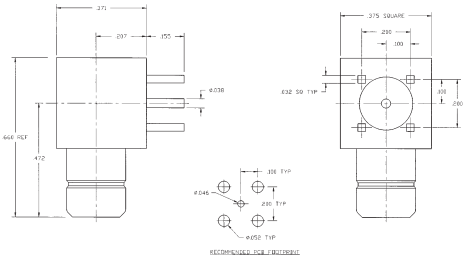


75Ω SMB Bulkhead Receptacle/Rear Mount
Male Contact/Solder Cup Terminal
903-382J-71R Gold Plated

Fig. 2



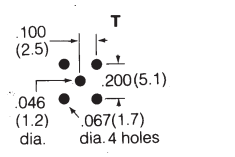


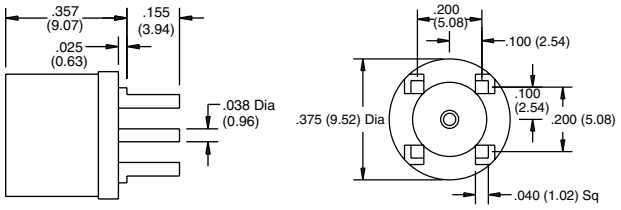


75Ω SMB Right Angle PCB Receptacle
903-585J-71A Gold Plated

Fig. 3



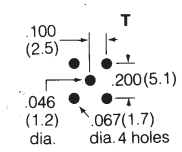


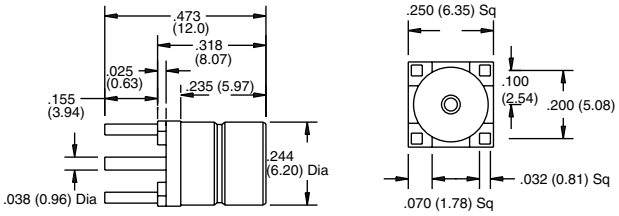


75Ω SMB PCB Plug Receptacle
Female Contact/Four Legs
903-522P-71P Gold Plated

Fig. 4







75Ω SMB PCB Jack Receptacle
Male Contact/Four Legs
903-523J-71P Gold Plated

75 ohm SMB BULKHEAD & PRINTED CIRCUIT BOARD RECEPTACLES

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
Bulkhead Jack Receptacle, Rear Mount	Solder Cup	R	P11	D1	Gold Plated/Captive Contact	903-382J-71R	1
PCB Plug Receptacle/Four Legs	Blunt Post	T	P11	D1	Gold Plated/Captive Contact	903-522P-71P	3
PCB Jack Receptacle/Four Legs	Blunt Post	T	P11	D1	Gold Plated/Captive Contact	903-523J-71P	4
PCB R/A Jack Receptacle/Four Legs	Blunt Post	T	P11	D1	Gold Plated/Captive Contact	903-585J-71A	2

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75 ohm High Density Coaxial Connectors

Amphenol high density 75 ohm 903 Series SMB connectors conform to the requirements of MIL-C-39012 and the interface is in compliance with MIL-STD-348.

Features/Benefits

- Broadband capability through 4 GHz combines with compact, space saving design.
- Can easily be identified by their red Teflon insulators.
- Guided entry sleeve for positive mating.
- Closed entry contact to prevent "slide-by".
- Full range of high density SMB connector configurations is available, including end launch, printed circuit board and cable connectors.
- Series gives design engineers options in applications where physical space is limited.



SPECIFICATIONS

ELECTRICAL

Impedance	75 ohms
Frequency range	0-4 GHz with low reflection
Voltage rating for RG-188/U cables	Sea level: 335 volts 70,000 ft: 85 volts
Dielectric withstanding voltage	750 VRMS, RG-196 type 1000 VRMS, RG-188 type
VSWR straight right angle connectors	735A type 1.25 + .04 f (GHz) 1.35 + .04 f (GHz)
Contact resistance	Center contact: initial, 6.0 milliohms; After environmental, 8.0 Outer contact: initial, 1.0 milliohms; After environmental, 1.5 Braid to body: initial, 1.0 milliohms; After environmental, N/A
Insulation resistance:	1000 megohms min.
RF leakage	-55 dB min. @ 2 - 3 GHz
Insertion loss: straight rt. angle	 0.30 dB @ 1.5 GHz 0.60 dB @ 1.5 GHz

MATERIAL

Bodies	Brass per QQB-626 or zinc per ASTM B86-71, as specified, nickel (or gold) plated as listed
Center contacts	beryllium copper, gold plated
Outer contact	Nickel or gold plated as listed.
Crimp ferrules	Annealed copper alloy
Insulators	TFE - Red for I.D.

MECHANICAL

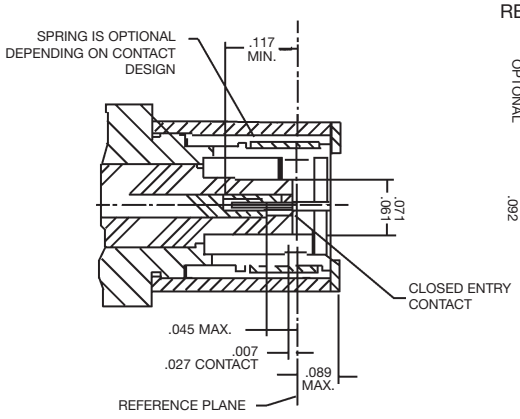
Mating	75 ohm snap-on coupling, per MIL-STD-348
Engagement forces	Initial 14 lbs. max. engagement. After 500 matings, 14 lbs. max engagement and disengagement. 2 lbs. min. disengagement.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder or crimp
Contact captivation	All types, except as noted
Cable retention	Equal to breaking strength of cable employed
Connector durability	500 mating and unmating cycles min.

ENVIRONMENTAL

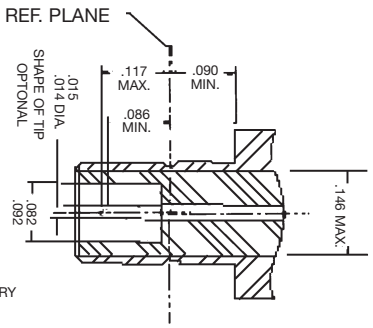
Temperature range	-65°C to + 165°C
Thermal shock	MIL-STD-202 method 107 (test cond. B) except high temp test @ + 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. B) (15G's)
Shock	MIL-STD-202 method 213, snap-on (test cond. B) 75 G's @ 6 milliseconds 1/2 sine.
Corrosion	MIL-STD-202 method 101 (test cond. B) 5% salt solution.

* These characteristics are typical and may not apply to all connectors.

PLUG



JACK



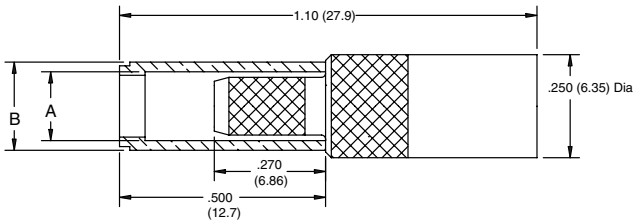
SMB

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75 ohm High Density Coaxial Connectors

Fig. 1

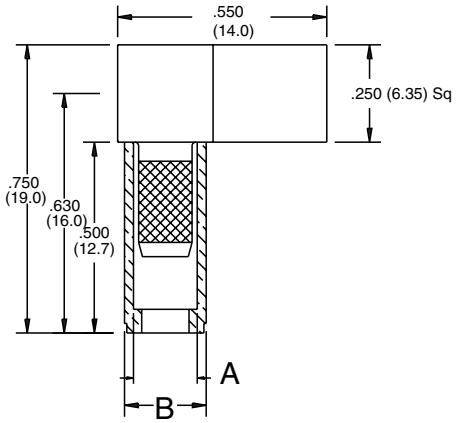




75Ω SMB Plug
903-516P-71S for Type 735A
903-536P-71S for RG-179
Nickel Plated, Gold Plated Contact

Fig. 2





75Ω SMB Angle Plug
903-517P-71A for Type 735A
903-535P-71A for RG-179
Nickel Plated, Gold Plated Contact

75 ohm SMB PLUGS & ANGLE PLUGS

Cable RG-/U	Connector Description	Cable Attachment		c Dia		CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner	A	B						
179	Plug	Crimp	Solder	.128(3.3)	.152(3.86)	C60	PCF	D32	Nickel Plated Body	903-536P-71S	1
	Angle Plug	Crimp	Solder	.128(3.3)	.152(3.86)	C61	PCF	D32	Nickel Plated Body	903-535P-71A	2
735A Type	Plug	Crimp	Solder	.167(4.24)	.214(5.43)	C60	PCF	D32	Nickel Plated Body	903-516P-71S	1
	Angle Plug	Crimp	Solder	.167(4.24)	.214(5.43)	C61	PCF	D32	Nickel Plated Body	903-517P-71A	2

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75 ohm High Density Coaxial Connectors

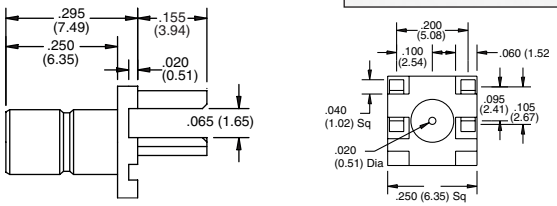
Fig. 1



75Ω SMB PCB Slide-on Plug Receptacle
Female Contact/Blunt Post Terminal
903-524P-71P Gold Plated
TFE Fluorocarbon, Red Insulator
Gold Plated Contact

Fig. 2





75Ω SMB PCB End Mount Jack Receptacle
Male Contact/Blunt Post Terminal
903-518J-71P Gold Plated
TFE Fluorocarbon, Red Insulator
Gold Plated Contact

Fig. 3



75Ω SMB PCB Jack Receptacle
Male Contact/Blunt Post Terminal
903-512J-71P Gold Plated
TFE Fluorocarbon, Red Insulator
Gold Plated Contact

Fig. 4



75Ω SMB PCB Angle Jack Receptacle
Male Contact/Blunt Post Terminal
903-519J-71P Gold Plated Body
TFE Fluorocarbon, Red Insulator
Gold Plated Contact

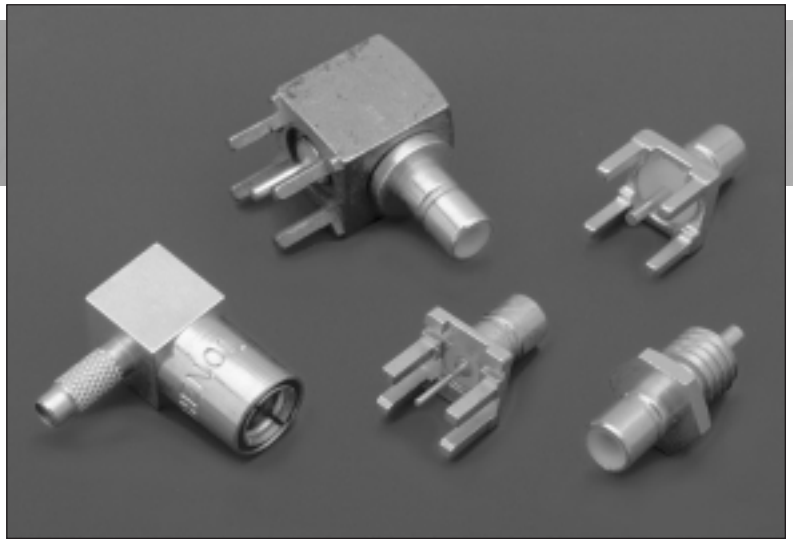
75 ohm SMB PRINTED CIRCUIT BOARD RECEPTACLES

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Amphenol Number	Fig.
PCB Slide-on Plug Receptacle/Four Legs	Blunt Post	T	PCF	D32	Gold Plt. Body/Red TFE Ins.	903-524P-71P	1
PCB End mount Jack Receptacle/Four Legs	Blunt Post	—	PCF	D32	Gold Plt. Body/Red TFE Ins.	903-518J-71P	2
PCB Jack Receptacle/Four Legs	Blunt Post	T	PCF	D32	Gold Plt. Body/Red TFE Ins.	903-512J-71P	3
PCB Angle Jack Receptacle/Four Legs	Blunt Post	T	PCF	D32	Gold Plt. Body/Red TFE Ins.	903-519J-71P	4

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Notes

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Description

The SMC name derives from SubMiniature C (the third subminiature design). The SMC design was developed in the 1960's. SMC has threaded coupling with 10-32 threads.

Available in 50 & 75 ohm impedance.

Utilizes die cast components on non-critical areas to provide a low cost solution.

Features/Benefits

- Broadband performance with low reflection DC to 10 GHz provides low cost connector combined with high quality.
- Conforms to the interface dimensions of MIL-STD-348 provides intermatability with other connector suppliers. Offers customer second source.
- 10-32 screw-on (threaded) coupling mechanism allows performance to 10 GHz with low reflection.
- Right Angle connectors available in one piece construction ensures better performance combined with low cost.

Application

- Antennas
- Automotive (GPS)
- Base Stations
- Cable Assemblies
- Components
- Instrumentation
- PC/LAN
- Process Controls
- Radio Boards
- Surge Protection
- Telecom
- Test and Measurement
- Video Systems

SMC Connectors

Specifications	52
Plugs, Jacks, Receptacles	53
Straight and Right Angle PCB	54

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ELECTRICAL

Impedance	50 ohms
Frequency range	0-4 GHZ with low reflection; usable to 10.0 GHz
Voltage rating	Sea level: 335 volts 70,000 ft: 85 volts
Dielectric Withstanding voltage (max.)	750 VRMS RG-196 1000 VRMS for RG-188 type
VSWR straight connectors rt. angle connectors straight connectors rt. angle connectors	RG-196/U series 1.30 + .04 f (GHz) 1.45 + .06 f (GHz) RG-188/U series 1.25 + .04 f (GHz) 1.35 + .06 f (GHz)
Contact resistance Center: initial after environ. Outer: initial after environ. Braid to body: initial after environ.	 6.0 milliohms 8.0 milliohms 1.0 milliohms 1.5 milliohms 1.0 milliohms N/A
Insulation resistance	1000 megohms min.
RF leakage	-55 dB min. @ 2-3 GHz
Insertion Loss straight connectors rt. angle connectors	 0.30 dB @ 1.5 GHz 0.60 dB @ 1.5 GHz

MECHANICAL

Mating	50 Ohm screw-on coupling per MIL-STD-348
Mating torque	Recommended 2-3" lbs. maximum 6.2" lbs. 80-110 N.cm
Connector affixment to cable	Braid and Jacket: hex. crimp
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Cable retention	Equal to breaking strength of cable employed
Connector durability	500 mating and unmating cycles min.

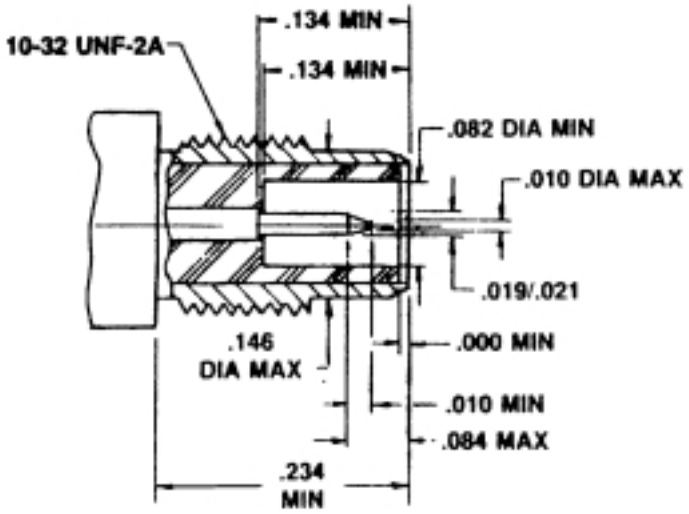
ENVIRONMENTAL

Temperature range	-65°C to + 165°C
Thermal shock	MIL-Std. 202 method 107 condition C
Vibration	MIL-Std. 202 method 204 condition D
Shock	MIL-Std. 202 method 213 condition C
Corrosion	MIL-Std. 202 method 101 condition B

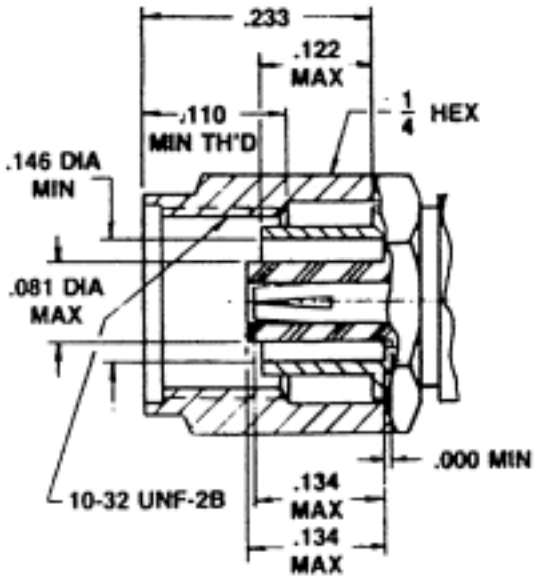
MATERIAL

Bodies	Brass per QQB-626 or zinc per ASTM B86-71, as specified, nickel or gold plated as listed
Center contacts	Female: berylium copper, gold plated Male: brass or berylium copper, gold plated
Outer contact	Nickel or gold plated as listed
Crimp ferrules	Annealed copper alloys
Insulators	TFE

PLUG

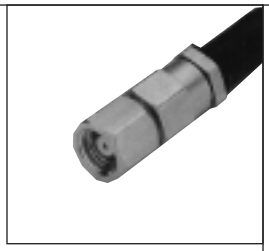


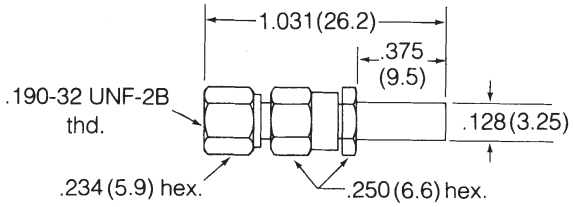
JACK



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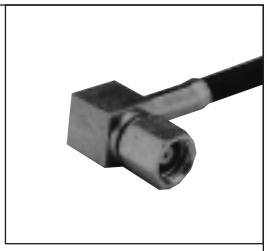
Fig. 1

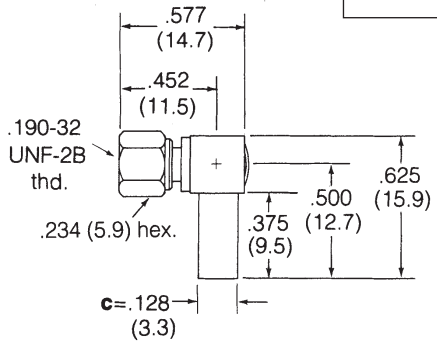




50Ω SMC Plug - Braid Crimp/Solder Female Contact
903-284P-52S Gold Plated
903-284P-52S1 Nickel Plated

Fig. 2





50Ω SMC Angle Plugs - Braid Crimp/Solder Female Contact
903-288P-52A Gold Plated
903-362P-52A1 Nickel Plated

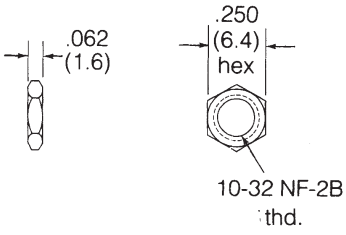
Fig. 3



SMC Bulkhead Receptacle - Front Mount
Male Contact/Solder Cup Terminal
903-408J-52R

Fig. 4

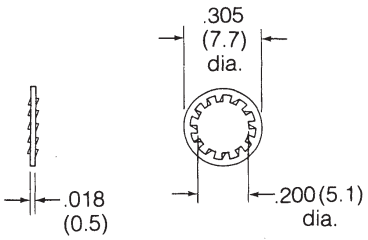




Jam Nut SMB/SMC Receptacles
903-10408-1
903-10408-2

Fig. 5





Lock Washer SMB/SMC Receptacles
903-10409-1
903-10409-2

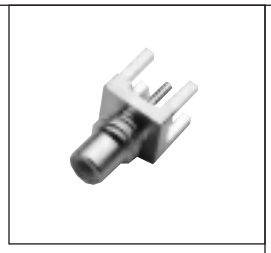
SMC PLUGS, ANGLE PLUGS, BULKHEAD RECEPTACLES & ACCESSORIES

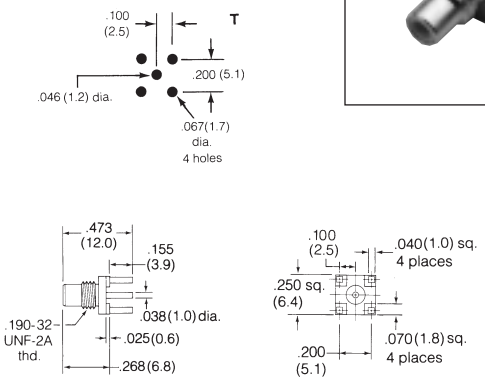
Cable RG-/U	Connector Description	Cable Attachment Outer	Cable Attachment Inner	c Dia. In. (mm)	MTG Hole	CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
RG-174, 179, 187 188, 316	Plug	Crimp	Solder	.128 (3.3)	—	C25	P19	D1	Gold plated body	903-284P-52S	1
							P32		Nickel plated body	903-284P-52S1	
	Angle Plug	Crimp	Solder	.128 (3.3)	—	C26	P19	D1	Gold plated body	903-288P-52A	2
Dbl. Br. 316	Angle Plug	Crimp	Solder	.100 (2.5)	—	C26	P32	D1	Nickel plated body	903-362P-52A1	2
—	Bulkhead Jack Rec. Front solder/mount cup term.	—	—	—	P	—	P19	D1	Gold plated / captive contact	903-408J-52R	3
—	Jam nut for SMB/SMC Receptacles	—	—	—	—	—	P42	—	Gold plated	903-10408-1	4
							P4		Nickel plated	903-10408-2	
—	Lockwasher for SMB/SMC receptacles	—	—	—	—	—	P42	—	Gold plated	903-10409-1	5
							P4		Nickel plated	903-10409-2	

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Straight & Right Angle PCB

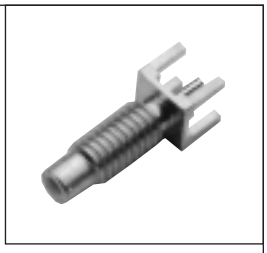
Fig. 1

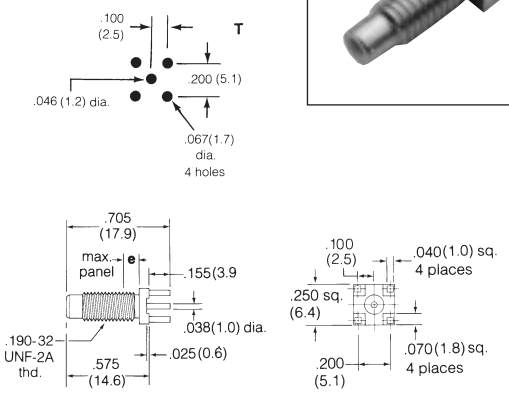




50Ω SMC PC Receptacle
Male Contact/Post Terminal/Four Legs
903-420J-52P
Gold Plated

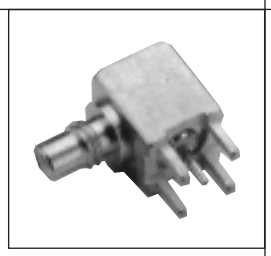
Fig. 2

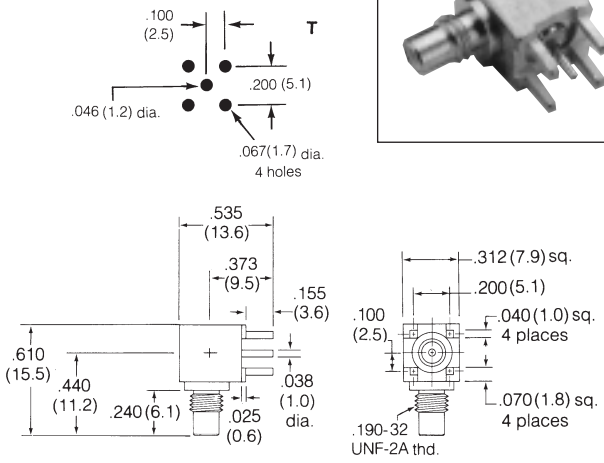




50Ω SMC PC Bulkhead Receptacle
Male Contact/Post Terminal/Four Legs
903-421J-52P
Gold Plated

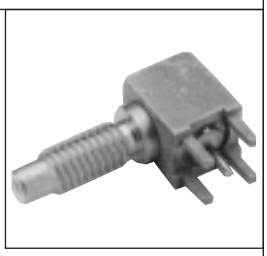
Fig. 3





50Ω SMC Printed Circuit Angle Receptacle
Male Contact/Post Terminal/Four Legs
903-378J-52A
Tin Lead Plated Cube Body & Legs
Gold Plated Interface & Terminal

Fig. 4



50Ω SMC PC Angle Bulkhead Receptacle
Male Contact/Post Terminal/Four Legs
903-419J-52A
Tin Lead Plated Cube Body & Legs
Gold Plated Interface & Terminal

75 ohm SMB PRINTED CIRCUIT BOARD RECEPTACLES

Connector Description	Terminal Type	MTG Hole	Plt.	Ins	Construction Notes	Dim. e	Amphenol Number	Fig.
Printed Circuit Straight Jack Receptacle	Blunt Post	T	P19	D1	—	—	**903-420J-52P**	1
Printed Circuit Straight Bulkhead Jack Receptacle	Blunt Post	T	P19	D1	—	.125 (3.2)	**903-421J-52P**	2
Printed Circuit Right Angle Jack Receptacle	Blunt Post	T	P27	D1	Leak Tight	—	**903-378J-52A**	3
Printed Circuit Right Angle Bulkhead Jack Receptacle	Blunt Post	T	P27	D1	Leak Tight	.125 (3.2)	**903-419J-52**	4

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Description

SMA is an acronym for SubMinature version A and was developed in the 1960's. It uses a threaded interface.

50 ohm SMA connectors are semi-precision, sub-miniature units which provide excellent electrical performance from DC to 18 Ghz. These high performance connectors are compact in size and mechanically have outstanding durability.

Built in accordance with MIL-C-39012 and CECC 22110/111. They can be mated with all connectors which meet these spec mating diameters regardless of manufacturer.

Features/Benefits

- Broadband performance DC to 18 GHz with low reflection stainless steel construction with 1/4-36 threaded coupling offers high performance in a compact design.
- Low cost Commercial Grade (Brass SMA) available in nickel or gold plating, flexible provides approximately 30% reduction in cost with 250 mating cycles.
- Various flexible cable groups including: .086 and .141 semi-rigid allows customer flexibility in their design with a durable connector.

Application

- Base Stations
- Cable Assemblies
- Components
- Instrumentation
- Mil/Aero
- PC/LAN
- Process Controls
- Telecom

Stainless Steel

Specifications	56-57
Plugs	58-61
Jacks	62-63
Receptacles	64-73
In-Series Adapters	74-75

Brass

Specifications	76
Plugs, Jacks	77-78
Receptacles	79-82

Phase Adjustable Connectors

Specifications	83
Plugs and Adapters	84

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ELECTRICAL

Impedance	50 ohms
Frequency range	.141" & .085" O.D. copper jacket semi-rigid cable. 0-18GHz. Flexible cables: 0-12.4 GHz.
Voltage rating	RG-55, 58,141,142, 223, 303: 500 volts peak RG-122,, 174, 188, 316:, 375 volts peak
Dielectric withstanding voltage	.141" & RG-58 group: 1,000 VRMS. .085" & RG-316 group: 750 VRMS.
VSWR (straight connectors) (angle connectors)	.141" O.D. copper jacket cable: 1.05 + .005 f (GHz) RG-55 group: 1.15 + .011 f (GHz) RG-122 group: 1.15 + .02 f (GHz) RG-178 group: 1.20 + .025 f (GHz) .141" O.D. copper jacket cable: 1.10 + .01 f (GHz) RG-55 group: 1.15 + .02 f (GHz) RG-122 group: 1.15 + .03 f (GHz) RG-178 group: 1.20 + .03 f (GHz)
Contact resistance	Center: 2.0 milliohms Body: 2.0 milliohms Braid to body: 0.5 milliohms
Insulation resistance:	5000 megohms
RF leakage	-60 dB minimum
Insertion loss:	$.03\sqrt{f(GHz)}$ dB max.

ENVIRONMENTAL

Temperature range	-65°C to + 165°C
Thermal shock	MIL-Std. 202 method 107 (test cond. B) except high temp test @ + 200°C
Vibration	MIL-Std. 202 method 204 (test cond. D)
Shock	MIL-Std. 202 method 213 (test cond. I) No discontinuity permitted.
Corrosion	MIL-Std. 202 method 101 (test cond. B) 5% salt solution.
Moisture resistance	MIL-Std. 202 method 106, except step 7b (vibration) omitted, and high humidity measurements do not apply.
Weatherproofing	Crimp type: heat shrink tubing Solder type: silicone rubber gaskets
Altitude	MIL-Std. 202 method 105 (test cond. C), no corona at 70,000 ft. .141" & RG-55 group: 250 VRMS. .085" & RG-122 group: 190 VRMS.

MECHANICAL

Mating	.250-36 threaded coupling
Mating torque	Minimum: 2 inch pounds 22 N.cm Recommended: 7 to 10 inch pounds 80-110 N.cm Maximum: 15 inch pounds 170 N.cm
Coupling nut retention	Axial force: 100 lbs. min., 300 N.cm Torque: 15 in. lbs. min. 76 N.cm Jacks: N/A
Connector affixment to cable	Crimp types, solder types
Cable affixment to center contact	Solder, except as noted
Contact captivation	All types, except as noted
Cable retention	Crimp type for RG-58, .141, 303=60 lbs min.; for RG-55,142, 223 = 80 lbs min. 400 N.cm
Connector durability	500 mating and unmating cycles @ 12 cycles per min.

MATERIAL

Bodies, coupling nuts, other metal parts (except as noted)	Non-magnetic stainless steel per QQ-S-764, Type 303.
Contacts	Beryllium copper per QQ-C-530, heat treated per MIL-H-7199.
Plating: Center contacts.	.00005" min. gold per MIL-G-45204, type 1, grade C. Gold over nickel unless otherwise requested.
Plating: Other metal parts	Gold plated or passivated to meet the finish and corrosion requirements of MIL-C-39012.
Insulators	TFE fluorocarbon per ASTM D1457.
Gaskets	Silicone rubber, per MIL-R-5847 and ZZ-R-765. class IIB, grade 65-75.
Lockwashers	Stainless steel, internal-tooth supplied with all bulkhead mounted connectors.
Crimp ferrules	Seamless copper tubing alloy # 122 (DHP), hard drawn to Rockwell 58-77 on 30-T scale per ASTM B75.

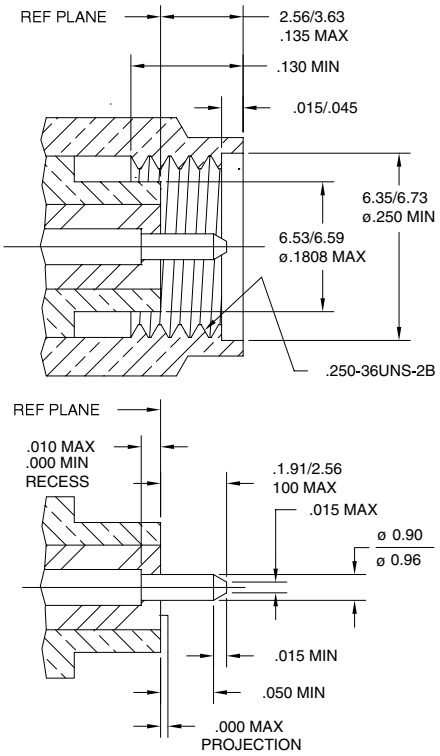
MILITARY SPECIFICATIONS

MIL-C-39012 & MIL-C-83517 SMA specification sheets	As applicable

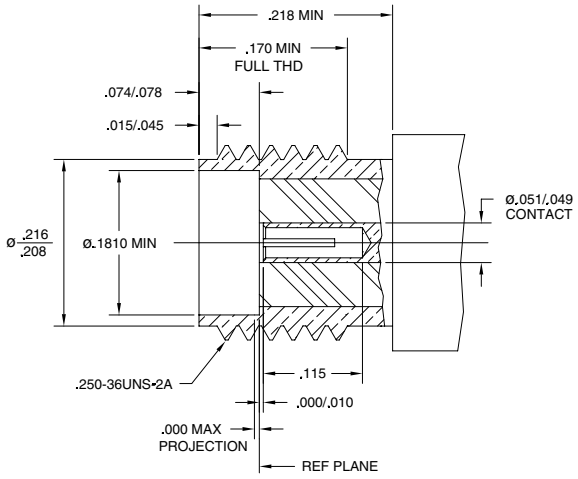
NOTE: These characteristics are typical and may not apply to all connectors.

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Plug



Jack



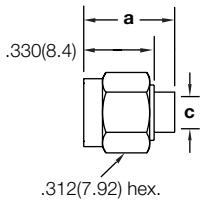
CECC = Cenelec Electronic Components Committee in Europe

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Straight Cable Plugs

Fig. 1



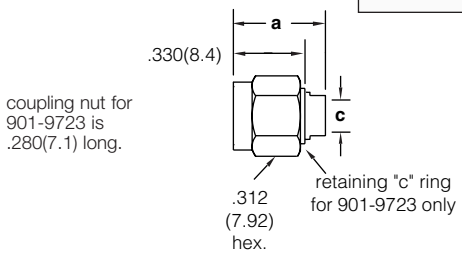


SMA Plugs - Solder to Body
901-9201-2A
for .085" (2.2mm) S/R, RG-405 (M17/133)
Gold Plated Nut [VSWR = 1.07 + .008(GHz) DC-18GHz]
901-9201-2ASF
for .085" (2.2mm) S/R, RG-405 (M17/130)
Gold Plated Passivated Nut
901-9201-1A
for .141" (3.6mm) S/R, RG-402 (M17/130)
Gold Plated Nut, without Contact & Insulator
901-9201-1ASF
for .141" (3.6mm) S/R, RG-402 (M17/130)
Gold Plated Passivated Nut

Fig. 2

VSWR = 1.35 max.
DC-22GHz



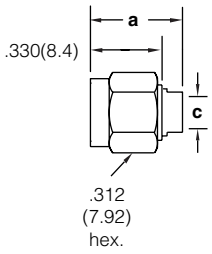


SMA Plugs - Solder to Body/
Pre-assembled Factory-Set Interface
901-9723▲
Passivated Nut, 100 piece Bulk Pack
901-9723-10
Passivated Nut, Single Pack
for .085" (2.2mm) S/R, RG-405 (M17/133)

Fig. 3

VSWR = 1.35 max.
DC-22GHz

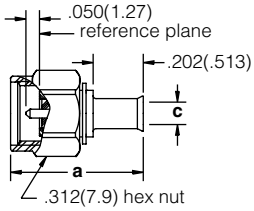




901-9808▲
Gold Body, Passivated Nut
901-9801-1
Gold Body and Nut
901-9801-2
Gold Body, Passivated Nut
Preassembled Factory Set Interface
Single Pack
for .141" (3.6mm) S/R , RG-402 (M17/130)

Fig. 4





SMA Plugs - Solder to Body/
Pre-assembled Factory-Set Interface
901-9805-HP
Passivated Nut, Single Pack
for .085" (2.2mm) S/R, RG-405 (M17/133)

SMA PLUGS FOR SEMI-RIGID CABLE – 50Ω impedance

Cable RG-/U	Cable Attachment		Dim. In. (mm)		CAI	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
	Outer	Inner	a	c						
.085" (2.2mm) Semi-Rigid RG-405 (M17/133)	Solder	Solder	.438(11.1)	.090(2.3)	C47	P10	D1	—	901-9201-2A	1
	Solder	Plugable	.400(10.2)	.090(2.3)	C48	P10	D1	—	901-9201-2ASF	1
	Solder	Plugable	.400(10.2)	.090(2.3)	C48	P10	D1	—	▲ 901-9723	2
	Solder	Plugable	.400(10.2)	.090(2.3)	C48	P11	D1	—	901-9723-10	2
	Solder	Plugable	.531(13.5)	.090(2.3)	C48	P11	D1	—	901-9805-HP	4
.141" (3.6mm) Semi-Rigid RG-402 (M17/130)	Solder	None	.445(11.3)	.145(3.7)	C50	P14	—	w/o Cont. & Ins.	901-9201-1A	1
	Solder	None	.445(11.3)	.145(3.7)	C50	P14	—	Gold plated body❦	▲901-9201-1ASF	1
	Solder	Plugable	.438(11.1)	.145(3.7)	C48	P10	D1	Gold plated body❦	901-9808	3
	Solder	Plugable	.438(11.1)	.145(3.7)	C48	P10	D1	Gold plated body❦	901-9801-1	3
	Solder	Plugable	.438(11.1)	.145(3.7)	C48	P10	D1	Gold plated body❦	901-9801-2	3

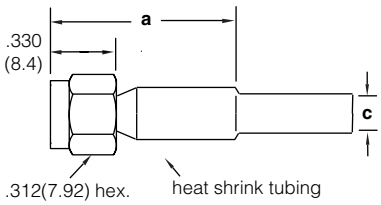
▲ distributor stocked ❦ passivated nut

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SMA
Straight Cable Plugs

Fig. 1

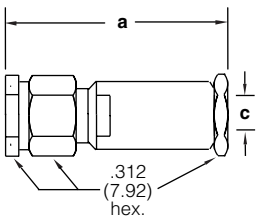




SMA Plug
Braid Solder to Body
Captivated Solder Contact
901-9501-3
for RG-174, 179B, 187A, 188A, 316

Fig. 2

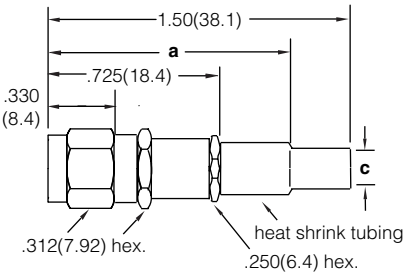




SMA Plugs
BeCu Body, Solder to Nut
901-103•▲
for RG-55, 58, 142, 223
901-128-11•
(M39012/55-4007)
for RG-174, 316

Fig. 3





SMA Plugs
Braid Crimp/
Captivated Solder Contact
901-9601-1SF▲
Passivated Body & Nut
for RG-55B, 142B, 223, 400
901-9601-3▲
Gold Plt. Body & Nut
901-9601-3SF▲
Passivated Body & Nut
for RG-174, 179, 187, 188, 316

SMA PLUGS FOR FLEXIBLE CABLE – 50Ω impedance

Cable RG-/U	Cable Attachment		Dim. In. (mm)		CAI	Plt.	Ins.	Construction Notes	Mil. No. 39012/	Amphenol Number	Fig.
	Outer	Inner	a	c							
55, 58, 141, 142, 223	Clamp	Solder	.969(24.6)	.219(5.6)	C43	P9	D1	BeCu Body	—	•▲ 901-103	2
55B, 142B, 223, 400	Crimp	Solder	1.10(28.0)	.220(5.6)	C56	P12	D1	Captivated Contact	—	▲ 901-9601-1SF	3
174, 179, 187, 188, 316	Crimp	Solder	1.10(28.0)	.128(3.3)	C56	P9	D1	Captivated Contact	—	▲ 901-9601-3	3
	Crimp	Solder	1.10(28.0)	.128(3.3)	C56	P12	D1	Captivated Contact	—	▲ 901-9601-3SF	3
174, 179B, 187A, 188A, 316	Solder	Solder	.690(17.5)	.128(3.3)	C46	P11	D1	—	—	901-9501-3	1
174, 316	Clamp	Solder	.984(25.0)	.114(2.9)	C44	P9	D1	BeCu Body	55-4007	• 901-128-11	2

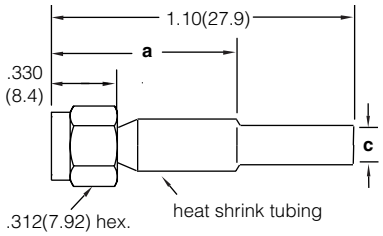
• safety wire holes ▲ distributor stocked

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Straight Cable Plugs

Fig. 1

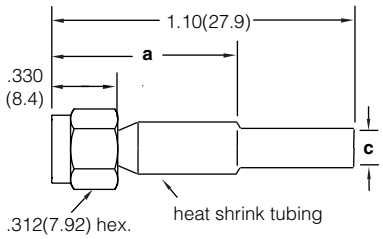




SMA Plugs
Braid Crimp/
Non-Captivated Solder Contact
901-9511-1▲
Gold Plt. Body & Nut
901-9511-1SF▲
Passivated Body & Nut
for RG-55B, 142B, 223, 400
901-9511-3▲
Gold Plt. Body & Nut
901-9511-3SF▲
Passivated Body & Nut
for RG-174, 179, 187, 188, 316
901-9511-12SF▲
Passivated Body & Nut
for Double Braid RG-316
901-9511-2
Gold Plt. Body & Nut
901-9511-2SF
Passivated Body & Nut
for RG-58
901-10011
Passivated Body & Nut
for LMR 240
901-10012
Passivated Body & Nut
for LMR 200

Fig. 2





SMA Plugs
Braid Crimp/
Crimp Center Contact
with Passivated Body & Nut
901-9511-1SFC
for RG-55B, 142B, 223, 400
901-101-15•†
BeCU Body
(M39012/55-4502)
for RG-142B, 400
901-9511-3SFC
for RG-174, 179, 187, 188, 316
901-9511-12SFC
for Double Braid RG-316

SMA PLUGS FOR FLEXIBLE CABLE – 50Ω impedance

Cable RG-/U	Cable Attachment		Dim. In. (mm)		CAI	Plt.	Ins.	Construction Notes	Mil. No. 39012/	Amphenol Number	Fig.
	Outer	Inner	a	c							
55B, 142B, 223, 400	Crimp	Solder	.812(20.6)	.220(5.6)	C53	P10	D1	Non-Captive Contact	—	▲ **901-9511-1**	1
55B, 142B, 223, 400	Crimp	Solder	.812(20.6)	.220(5.6)	C53	P13	D1	Non-Captive Contact	—	▲ **901-9511-1SF**	1
58	Crimp	Solder	.812(20.6)	.206(5.2)	C53	P11	D1	—	—	**901-9511-2**	1
58	Crimp	Solder	.812(20.6)	.206(5.2)	C53	P10	D1	—	—	**901-9511-2SF**	1
174, 187, 188, 316	Crimp	Solder	.812(20.6)	.128(3.3)	C55	P10	D1	Non-Captive Contact	—	▲ **901-9511-3**	1
174, 187, 188, 316	Crimp	Solder	.812(20.6)	.128(3.3)	C55	P13	D1	Non-Captive Contact	—	▲ **901-9511-3SF**	1
Dbl. Braid RG-188, 316	Crimp	Solder	.812((20.6)	.142(3.6)	C55	P13	D1	Non-Captive Contact	—	▲ **901-9511-12SF**	1
LMR 240	Crimp	Solder	1.03(26.2)	.261(6.6)	C53	P13	D1	Non-Captive Contact	—	**901-10011**	1
LMR 200	Crimp	Solder	.810(20.6)	.206(5.2)	C53	P13	D1	Non-Captive Contact	—	**901-10012**	1
55B, 142B, 223, 400	Crimp	Crimp	.812(20.6)	.220(5.6)	C55	P13	D1	—	—	**901-9511-1SFC**	2
142B, 400	Crimp	Crimp	1.03(26.2)	.220(5.6)	C55	P9	D1	BeCu Body	55-4502	•† **901-101-15**	2
174, 179, 187, 188, 316	Crimp	Crimp	.812(20.6)	.128(3.5)	C55	P13	D1	—	—	**901-9511-3SFC**	2
Dbl. Braid RG-188, 316	Crimp	Crimp	.812(20.6)	.142(3.6)	C55	P13	D1	—	—	**901-9511-12SFC**	2

• safety wire holes † for crimping center contact, use Tool Handle M22520/1-01 and Crimp Die M22520/1-15 ▲ distributor stocked

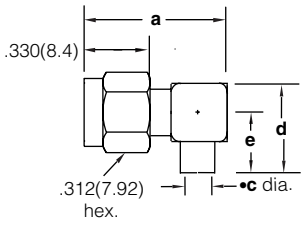
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SMA
Right Angle Cable Plugs

Amphenol®

Fig. 1

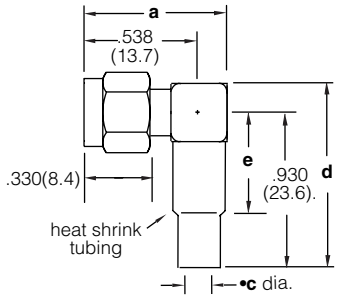




SMA Angle Plugs
Solder to Body
901-9221-2A
Gold Plated Nut
901-9221-2ASF
Passivated Nut
for 085" (2.2mm) S/R
RG-405 (M17/133)
901-9221-1A
Gold Plated Nut
901-9221-1ASF
Passivated Nut
for 141" (3.6mm) S/R
RG-402 (M17/130)

Fig. 2

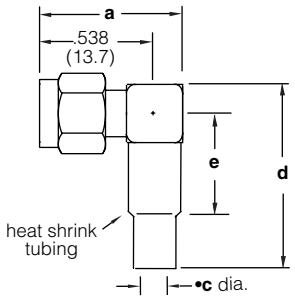




SMA Angle Plugs Solder to Nut
901-9531-1▲
Gold Plt. Body & Nut
for RG-55, 142, 223, 400
901-9531-2
Gold Plt. Body & Nut
901-9531-2SF
Passivated Body for RG-58, 141
901-9531-1SF▲
Passivated Body for SF142B
901-9531-3▲
Gold Plt. Body & Nut
901-9531-3SF▲
Passivated Body
for RG-174, 179, 187,188, 316
901-9531-12▲
Gold Plt. Body & Nut
901-9531-12SF▲
Passivated Body for Double Braid RG-316
901-10014
Passivated Body & Nut for LMR240

Fig. 3





SMA Angle Plugs
Braid Solder,
Solder Contact
901-9521-3▲
for RG-174, 179, 187,
187A, 188, 188A, 316

SMA RIGHT ANGLE PLUGS FOR SEMI-RIGID & FLEXIBLE CABLE – 50Ω impedance

Cable RG-/U	Cable Attachment		Dim. In. (mm)				CAI	Plt.	Ins.	Notes	Mil. No. 39012/	Amphenol Number	Fig.
	Outer	Inner	a	c	d	e							
.085" (2.2mm) Semi-Rigid RG-405 (M17/133)	Solder	Solder	.680(17.3)	.090(2.3)	.430(10.9)	.305(7.7)	C49	P11	D1	—	—	901-9221-2A	1
	Solder	Solder	.680(17.3)	.090(2.3)	.430(10.9)	.305(7.7)	C49	P11	D1	—	—	901-9221-2ASF	1
.141" (2.2mm) Semi-Rigid RG-402 (M17/130)	Solder	Solder	.680(17.3)	.145(3.7)	.430(10.9)	.305(7.7)	C49	P11	D1	—	—	901-9221-1A	1
	Solder	Solder	.680(17.3)	.145(3.7)	.430(10.9)	.305(7.7)	C49	P11	D1	—	—	901-9221-1ASF	1
55, 141, 142, 223, 400	Crimp	Solder	.682(17.3)	.220(5.6)	1.05(26.7)	.550(14.0)	C53	P11	D1	Cap. Cont.	—	▲ 901-9531-1	2
58, 141	Solder	Solder	.682(17.3)	.206(5.2)	1.05(26.7)	.550(14.0)	C53	P11	D1		—	901-9531-2	2
	Crimp	Solder	.682(17.3)	.206(5.2)	1.05(26.7)	.550(14.0)	C53	P13	D1		—	901-9531-2SF	2
174, 187, 188, 316	Crimp	Solder	.682(17.3)	.128(3.3)	1.05(26.7)	.550(14.0)	C57	P11	D1	Cap. Cont.	—	▲ 901-9531-3	2
	Crimp	Solder	.682(17.3)	.128(3.3)	1.05(26.7)	.550(14.0)	C57	P13	D1	Cap. Cont.	—	▲ 901-9531-3SF	2
174, 179, 187, 187A, 188, 188A, 316	Solder	Solder	.675(17.1)	.128(3.3)	1.12(28.4)	.440(11.2)	C46	P11	D1	—	—	▲ 901-9521-3	3
SF 142B, Times AA-2423	Crimp	Solder	.675(17.1)	.219(5.6)	1.06(26.9)	.475(12.1)	C53	P13	D1	—	—	▲ 901-9531-1SF	2
Double Braid RG-316	Crimp	Solder	.682(17.3)	.142(3.6)	1.05(26.7)	.550(14.0)	C57	P11	D1	Cap. Cont.	—	▲ 901-9531-12	2
	Crimp	Solder	.682(17.3)	.142(3.6)	1.05(26.7)	.550(14.0)	C57	P13	D1	Cap. Cont.	—	▲ 901-9531-12SF	2
LMR 240	Crimp	Solder	.682(17.3)	.261(1.7)	1.00(25.4)	.685(17.4)	C57	P13	D1	—	—	901-10014	2

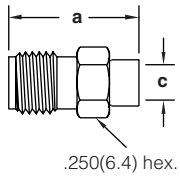
▲ distributor stocked

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Stainless Steel Cable Jacks

Fig. 1

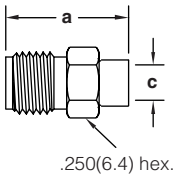




SMA Jacks
Solder to Body
Solder Center Contact
901-9202-1A
for .141" (3.6mm)
S/R RG-402 (M17/130)
901-9202-2A
for .085" (2.2mm)
S/R RG-405 (M17/133)

Fig. 2

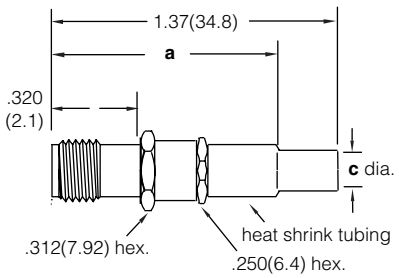




SMA Jack
Solder to Body
Pre-assembled Center Contact
901-9704
Gold Plated for .141" (3.6mm)
S/R RG-402 (M17/130)

Fig. 3





SMA Jacks
Braid Crimp
Solder Captive Contact
901-9602-1
Gold Plated,
901-9602-1SF
Passivated
for RG-55B, 142B, 223, 400
901-9602-3
Gold Plated,
901-9602-3SF
Passivated
for RG-174, 179, 187, 188, 316
901-9602-12SF
Passivated for
Double Braid RG-316

SMA JACKS FOR SEMI-RIGID & FLEXIBLE CABLES – 50Ω Impedance

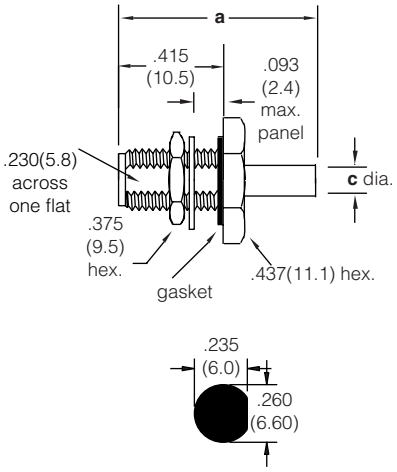
Cable RG-/U	Cable Attachment		Dimensions In. (mm)		CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
	Outer	Inner	a	c						
.085" (3.6mm) Semi -Rigid (RG-405) (M17/133)	Solder to Body	Solder	.500(12.7)	.088(2.2)	C47	P9	D1	—	901-9202-2A	1
.141" (3.6mm) Semi -Rigid RG-402 (M17/130)	Solder to Body	Solder	.500(12.7)	.144(3.7)	C47	P10	D1	—	901-9202-1A	1
	Solder to Body	Solder	.500(12.7)	.144(3.7)	C59	P11	D1	Pre-assembled Cont.	901-9704	2
55, 142, 223, 400	Crimp	Solder	.965(24.5)	.220(5.6)	C56	P9	D1	Captive Contact	901-9602-1	3
	Crimp	Solder	.965(24.5)	.220(5.6)	C56	P12	D1	Captive Contact	901-9602-1SF	3
174, 179, 187, 188, 316	Crimp	Solder	.965(24.5)	.128(3.3)	C56	P9	D1	Captive Contact	901-9602-3	3
	Crimp	Solder	.965(24.5)	.128(3.3)	C56	P12	D1	Captive Contact	901-9602-3SF	3
Double Braid RG-316	Crimp	Solder	.965(24.5)	.142(3.6)	C56	P12	D1	Captive Contact	901-9602-12SF	3

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SMA
Stainless Steel Cable Jacks

Fig. 1

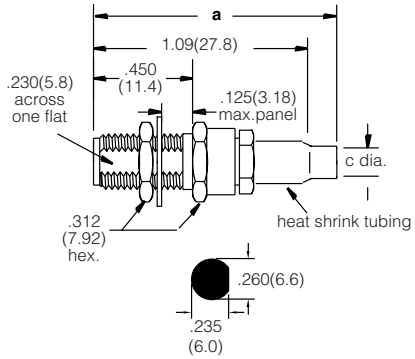




SMA Bulkhead Jacks
Solder to Body
Solder Center Contact
Gold Plated
901-9210-1
for .141" (3.6mm)
S/R RG-402 (M17/130)
901-9210-2
for .085" (2.2mm)
S/R RG-405 (M17/133)

Fig. 2

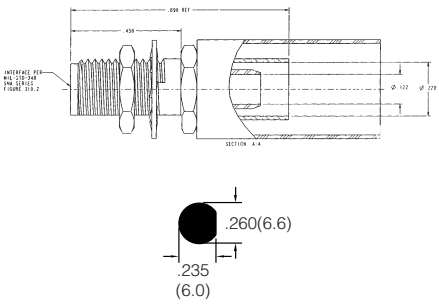




SMA Bulkhead Jacks
Braid Crimp Captive Contact
Solder Center Contact
901-9610-1SF▲
Passivated
for RG-55B, 142B, 223, 400
901-9610-3▲
Gold Plated
901-9610-3SF▲
Passivated
for RG174, 179, 187,188, 316
901-9610-12SF
Passivated
for Double Braid RG-316
901-10015
Passivated
for LMR 240

Fig. 3





SMA Bulkhead Jacks
Braid Crimp
Solder Center Contact
901-10021-1SF▲
Passivated
for RG-55B, 142B, 223, 400
901-10021-3SF▲
Passivated
for RG174, 179, 187,188, 316
901-10021-12SF
Passivated
for Double Braid RG-316

SMA BULKHEAD JACKS FOR SEMI-RIGID & FLEXIBLE CABLES – 50Ω Impedance

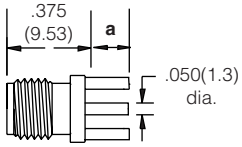
Cable RG-/U	Cable Attachment		Dimensions In. (mm)		CAI	Plt.	Ins.	Notes	Amphenol Number	Fig.
	Outer	Inner	a	c						
.085" (2.2mm) Semi-Rigid RG-405 (M17/133)	Solder to Body	Solder	.750(19.1)	.090(2.3)	C47	P9	D1	—	901-9210-2	1
.141" (3.6mm) Semi-Rigid RG-402 (M17/130)	Solder to Body	Solder	.750(19.1)	1.44(3.7)	C47	P10	D1	—	901-9210-1	1
55, 142, 223, 400	Crimp	Solder	1.50(38.1)	.220(5.6)	C56	P13	D1	Capt. Contact	▲ 901-9610-1SF	2
	Crimp	Solder	1.50(38.1)	.220(5.6)	C56	P13	D1	Non Capt. Contact	▲ 901-10021-1SF	3
174, 179, 187, 188, 316	Crimp	Solder	1.50(38.1)	.128(3.3)	C56	P11	D1	Capt. Contact	▲ 901-9610-3	2
	Crimp	Solder	1.50(38.1)	.128(3.3)	C56	P11	D1	Non Capt. Contact	▲ 901-10021-3SF	3
	Crimp	Solder	1.50(38.1)	.128(3.3)	C56	P13	D1	Capt. Contact	▲ 901-9610-3SF	2
Double Braid 316	Crimp	Solder	1.50(38.1)	.128(3.3)	C56	P13	D1	Non Capt. Contact	▲ 901-10021-12SF	3
	Crimp	Solder	1.50(38.1)	.142(3.6)	C56	P13	D1	Capt. Contact	901-9610-12SF	2
LMR 240	Crimp	Solder	1.08(27.4)	.261(6.6)	C56	P13	D1	Capt. Contact	901-10015	2

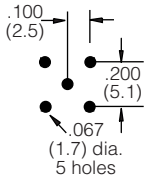
▲ distributor stocked

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Fig. 1

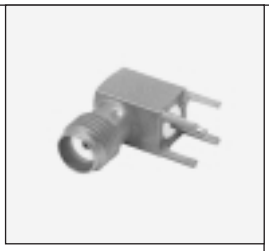


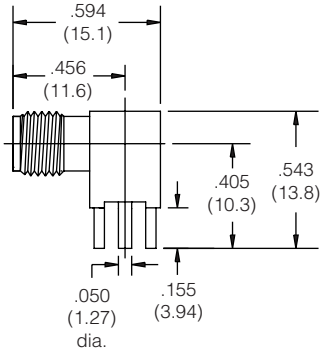


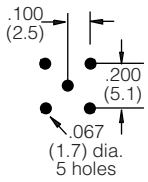


SMA Printed Circuit Receptacle
Gold Plated
Blunt Post Terminal
Four Legs
901-144▲
.155(3.9) Legs & Term.
901-144-2
.105(2.7) Solder Dipped Legs & Term.
901-144-3
.155(3.9) Solder Dipped Legs & Term.
901-144-4
.200(5.1) Legs & Term
with Stand-off Pads

Fig. 2



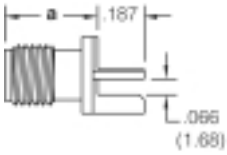


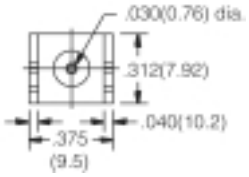


SMA Printed Circuit Receptacle
Gold Plated
Blunt Post Terminal
Four Legs
.025 Stand-off Pads
901-143▲
.155(3.9) Legs & Term.
901-143-3
.155(3.9) Solder Dipped Legs & Term.
901-143-4
.105(2.7) Solder Dipped Legs & Term.

Fig. 3







SMA Printed Circuit Receptacle
Edge Mount
901-9850
for .062" Printed Circuit Board
901-10003
for .062" Printed Circuit Board
901-10019
for .032" Printed Circuit Board

SMA PRINTED CIRCUIT RECEPTACLES – female contacts

Description	Terminal Type	Plt.	Ins.	MTG Hole	Construction Notes		Dim. a	Amphenol Number	Fig.
Printed Circuit Board Panel Jack Receptacle	Blunt Post	P11	D1	T	Captive Contact	—	.155(3.9)	▲ 901-144	1
						Solder Dipped Legs & Term	.105(2.7)	901-144-2	1
						Solder Dipped Legs & Term	.155(3.9)	901-144-3	1
						.025 Stand-off Pads	.200(5.1)	901-144-4	1
Printed Circuit Board Angle Jack Receptacle	Blunt Post	P11	D1	T	.025 Stand-off Pads	—	.155(3.9)	▲ 901-143	2
						Solder Dipped Legs & Term	.155(3.9)	901-143-3	2
						Solder Dipped Legs & Term	.105(2.7)	901-143-4	2
Printed Circuit Board Edge Mt Jack Receptacle	Blunt Post	P10	D1	—	For .062" Thick PCB	Brass Body	.475 (12)	901-9850	3
	Blunt Post	P11	D1	—	For .062" Thick PCB	Brass Body	.375 (9.5)	901-10003	3
	Blunt Post	P11	D1	—	For .032" Thick PCB	Brass Body	.350(8.9)	901-10019	3

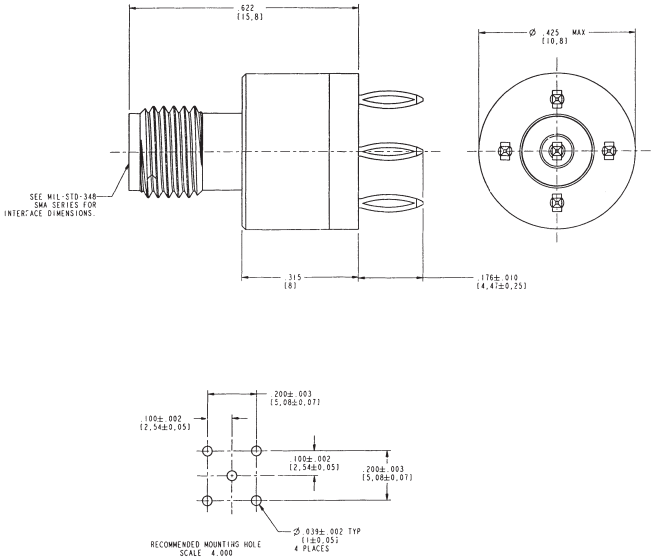
▲ distributor stocked

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PCB Press Fit Jacks

Fig. 1

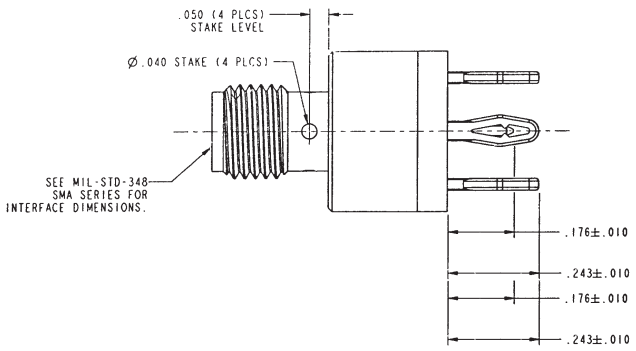




SMA PCB Press Fit Jack
901-144-PFD
Compliant Pin

Fig. 2





SMA PCB Press Fit Jack
High Retention
901-144-PF8
Compliant Pin

SMA PCB PRESS FIT JACKS

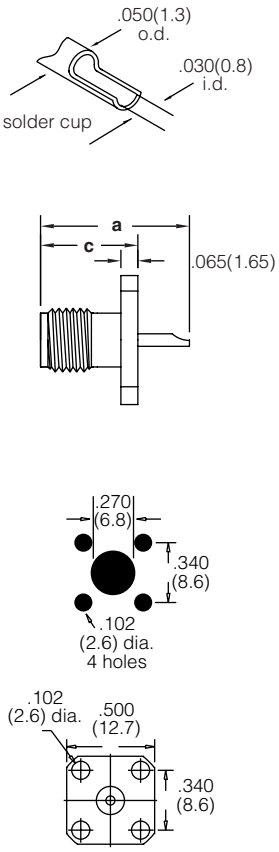
Description	Terminal Type	Plt.	Ins.	Construction Notes	Amphenol Number	Fig.
SMA PCB Press-Fit Jack	Compliant Pin	P11	D1	Gold Plated Body, Legs Tin/Lead	**901-144-PFD**	1
SMA PCB Press-Fit Jack	Compliant Pin	P11	D1	Gold Plated Body, Legs Tin/Lead	**901-44-PF8**	2

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Panel Jack Receptacles – 4-hole Flange

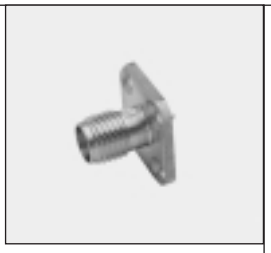
Fig. 1

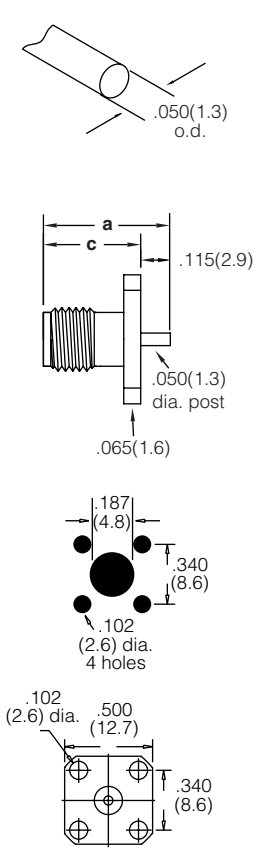




SMA Panel Jack Receptacle
4-Hole Square Flange Mount
Solder Cup Terminal
901-9215
Gold Plated Body
901-9215-SF
Passivated Body

Fig. 2

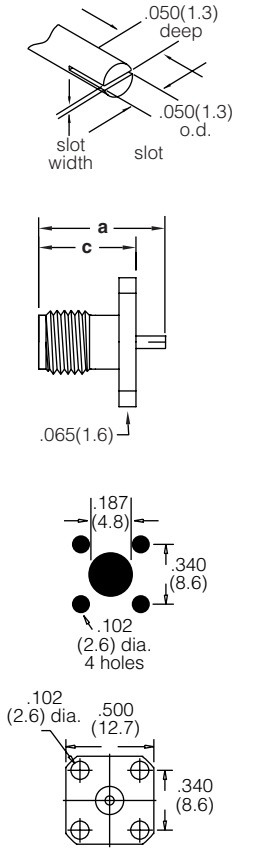




SMA Panel Jack Receptacle
4-Hole Square Flange Mount
Post Terminal
Flush TFE
Countersink Flange Holes
901-9758

Fig. 3





SMA Panel Jack Receptacle
4-Hole Square Flange Mount
Slot Terminal
901-9204-4CC
Gold Plated Body
901-9204-4CCSF
Passivated Body
901-9204-3CCSF
Passivated Body

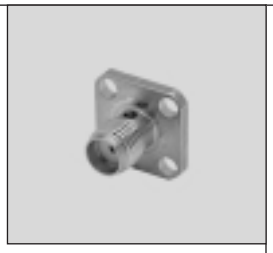
SMA PANEL JACK RECEPTACLES – 4-hole square flange mount

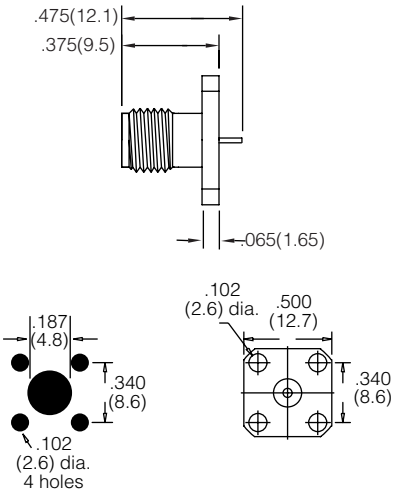
Terminal Type	Dimensions In. (mm)		Plt.	Ins.	Notes	Amphenol Number	Fig.
	a	c					
Solder Cup .200"(5.1mm) Long	.575(14.6)	.375(9.5)	P10	D1	Captive Contact, Gold Plt. Body	901-9215	1
	.575(14.6)	.375(9.5)	P13	D1	Captive Contact, Passivated Body	901-9215-SF	1
Slot .015"(0.4mm) Wide	.425(10.8)	.375.(9.5)	P9	D1	Captive Contact, Gold Plt. Body	901-9204-4CC	3
	.425(10.8)	.375.(9.5)	P12	D1	Captive Contact, Passivated Body	901-9204-4CCSF	3
Slot .030"(0.8mm) Wide	.425(10.8)	.375.(9.5)	P12	D1	Captive Contact, Passivated Body	901-9204-3CCSF	3
Blunt Post .115"(2.9mm) Long	.490(12.4)	.375(9.5)	P13	D1	Captive Contact, Passivated Body	901-9758	2

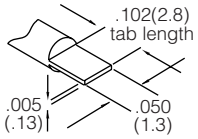
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Panel Jack Receptacles – 4-hole Flange

Fig. 1



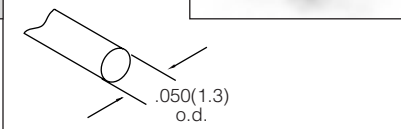


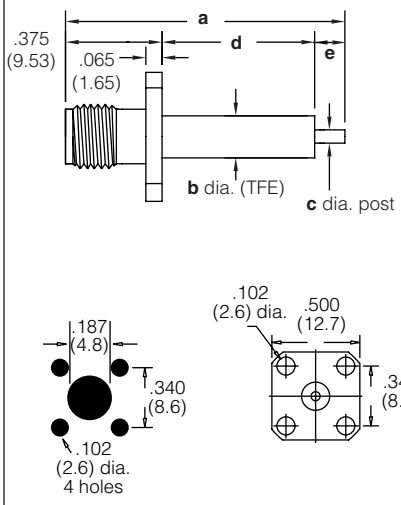


SMA Panel Jack Receptacle
Tab Terminal
Captivated
901-9215-3CCSF
Passivated

Fig. 2

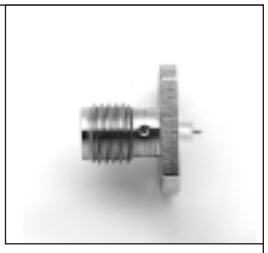


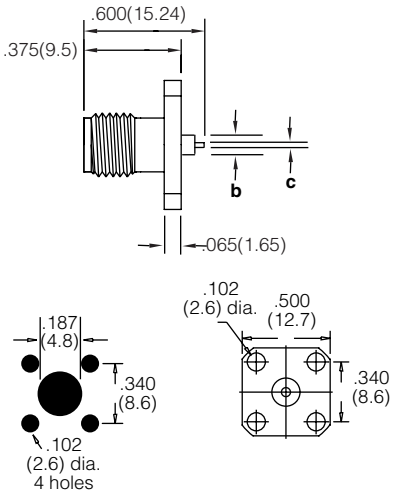


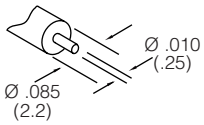


SMA Panel Jack
4-Hole Square Flange Mount
Exposed TFE
Blunt Post Terminal
901-9204-CC
.590 Exposed TFE
901-9204-CCSF
.590 Exposed TFE
901-9757
.590 Exposed TFE
901-9839
.205 Exposed TFE
901-9184-CCSF
.087 Exposed TFE
901-9789
.060 Exposed TFE

Fig. 3







SMA Panel Jack
4-Hole Square Flange Mount
Exposed TFE
Blunt Post Terminal
901-9804-1
.125 Exposed TFE

SMA PANEL JACK RECEPTACLES – 4-hole square flange mount

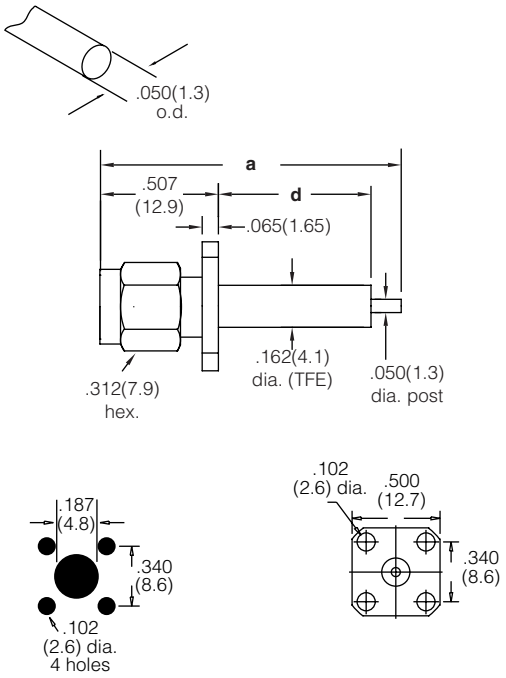
Terminal Type	Dimensions In. (mm)					Plt.	Ins.	Amphenol Number	Fig.
	a	b	c	d	e				
Blunt Post	1.08(27.4)	.162(4.1) dia	.050(1.3) dia	.590(15.0)	.115(2.9)	P9	D1	901-9204-CC	2
	1.08(27.4)	.162(4.1) dia	.050(1.3) dia	.590(15.0)	.115(2.9)	P13	D1	901-9204-CCSF	2
Blunt Post	1.08(27.4)	.162(4.1) dia	.050(1.3) dia	.590(15.0)	.115(2.9)	P13	D1	901-9757	2
Blunt Post	.640(16.2)	.162(4.1) dia	.050(1.3) dia	.205(5.2)	.060(1.5)	P13	D1	901-9839	2
Blunt Post	.562(14.3)	.162(4.1) dia	.050(1.3) dia	.087(2.2)	.100(2.5)	P13	D1	901-9184-CCSF	2
Blunt Post	.560(14.2)	.162(4.1) dia	.050(1.3) dia	.060(1.5)	.125(3.2)	P13	D1	901-9789	2
Blunt Post, Solder Dipped	—	.085(2.2) dia	.010(0.3) dia	—	—	P13	D1	901-9804-1	3
Tab ‡ .100 (2.5) Long	Captive Contact, Flush TFE, Conforms to M83517/1-31004 (NQ)*					P12	D1	901-9215-3CCSF	1

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Panel Plug Receptacles – 4-hole Flange

Fig. 1

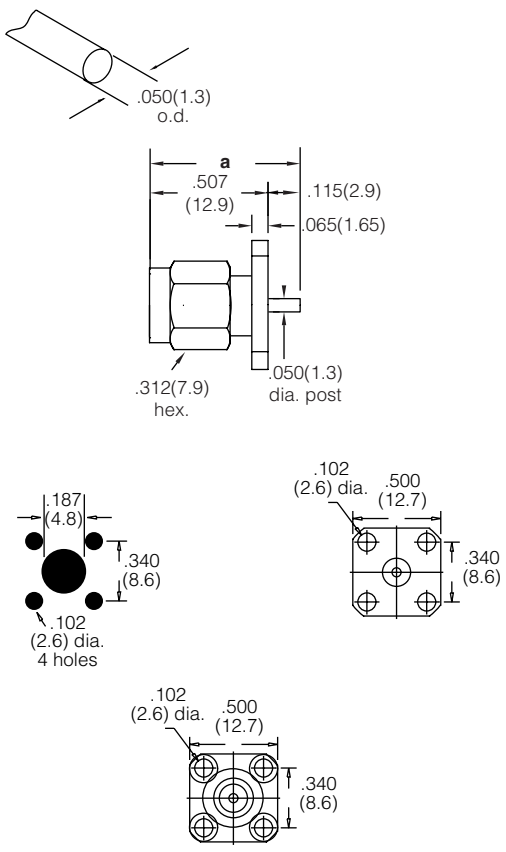




SMA Panel Plug Receptacle
4-Hole Square Flange Mount
.062 dia. Exposed TFE
.050 dia. Post Terminal
901-9214-CC
Gold Plated
901-9214-CCSF
Passivated
901-9788
Passivated with Conductive Epoxy Cap

Fig. 2





SMA Panel Plug Receptacles
4-Hole Square Flange Mount
Flush TFE
.050 dia. Post Terminal
901-9767
901-9760
(Countersink Flange Holes)

SMA PANEL PLUG RECEPTACLES – 4-hole square flange

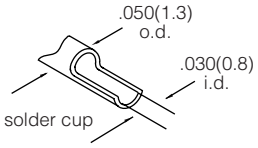
Description	Dim Inches (mm)		Plt.	Ins.	Construction Notes		Amphenol Number	Fig.
	a	d						
Blunt Post/.158(4.0) Long	.995(25.3)	.330(8.4)	P9	D1	Captive Contact/.330(8.4) Exposed TFE	Gold Plated Body	901-9214-CC	1
Blunt Post/.158(4.0) Long	.995(25.3)	.330(8.4)	P12	D1	Captive Contact/.330(8.4) Exposed TFE	Passivated Body	901-9214-CCSF	1
Blunt Post/.115(2.9) Long	1.21(30.8)	.59015.0)	P13	D1	Captive Contact/.590(15.0) Exposed TFE	Passivated Body	901-9788	1
Blunt Post/.115(2.9) Long	.622(15.8)	—	P13	D1	Captive Contact/Flush TFE	Passivated Body	901-9767	2
Blunt Post/.115(2.9) Long	.622(15.8)	—	P13	D1	Captive Contact/Flush TFE C'sink Flange Holes	Passivated Body	901-9760	2

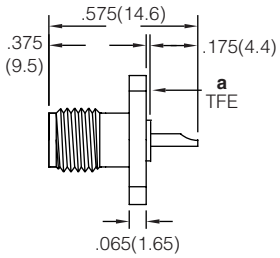
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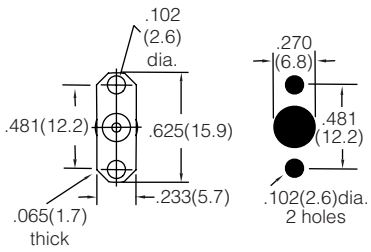
Panel Jack Receptacles – 2-hole Flange

Fig. 1





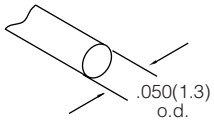


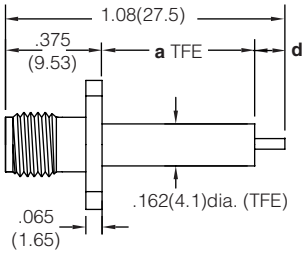


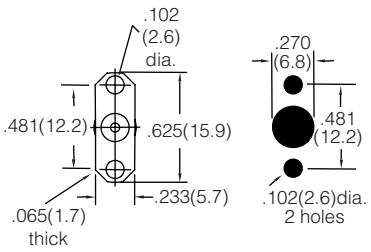
SMA Panel Jack Receptacles
2-Hole Trimline Flange Mount
Solder Cup Terminal
901-9244-2
Gold Plated

Fig. 2









SMA Panel Jack Receptacles
2-Hole Trimline Flange Mount
Exposed TFE
Blunt Post Terminal
901-9000-CC
Gold Plated
901-9000-CCSF
Passivated Finish
901-9185-CCSF
Passivated Finish

SMA PANEL JACK RECEPTACLES – 2-hole trimline flange

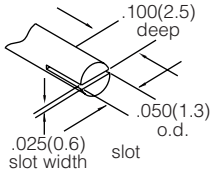
Description	Terminal Type	Plt.	Ins.	Construction Notes		Amphenol Number	Fig.
Panel Jack Receptacle	Solder Cup	P10	D1	Captive Contact/ a= .025" (0.6mm) Exposed TFE	Gold Plated	901-9244-2	1
Panel Jack Receptacle	Blunt Post	P10	D1	Captive Contact/d=.117(3.0) Long Post a= .590" (15.0mm) Exposed TFE	Gold Plated	901-9000-CC	2
		P13	D1		Passivated	901-9000-CCSF	2
Panel Jack Receptacle	Blunt Post	P13	D1	Captive Contact/d=.103(2.6) Long Post a= .334" (8.5mm) Exposed TFE	Passivated	901-9185-CCSF	2

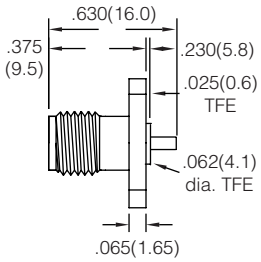
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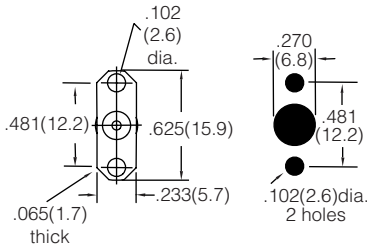
Panel Jack Receptacles – 2-hole Flange

Fig. 1







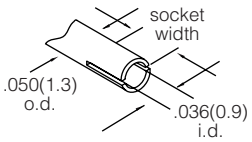


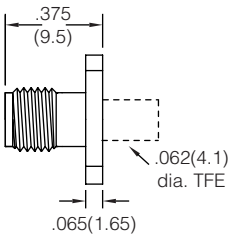
.223" Wide 2-Hole Trimline Flange

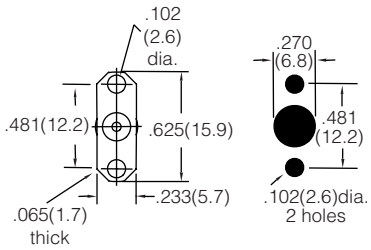
SMA Panel Jack Receptacles
Slot Terminal
901-9244-1 ‡
Gold Plated
901-9244-1SF ‡
Passivated Finish

Fig. 2









.223" Wide 2-Hole Trimline Flange

SMA Panel Jack Receptacles
Socket Terminal
901-9814
Flush TFE,
Conductive Epoxy Cap
901-9770
.185 Exposed TFE

SMA PANEL RECEPTACLES – 2-hole trimline flange

Description	Terminal Type	Plt.	Ins.	Construction Notes		Amphenol Number	Fig.
Panel Jack Receptacle	Slot .025" (0.6mm) wide	P9	D1	Contact Shipped Unassembled/ .025" (0.6 mm) Exposed TFE	Gold Plated	‡ **901-9244-1**	1
		P13	D1		Passivated	‡ **901-9244-1SF**	1
Panel Jack Receptacle	Socket	P13	D1	Flush TFE	Passivated Body	**901-9814**	2
Panel Jack Receptacle	Socket	P13	D1	.085 Exposed TFE	Passivated Body	**901-9770**	2

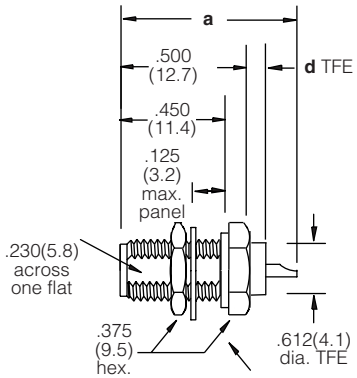
‡ Contact shipped unassembled. User has option for slot orientation

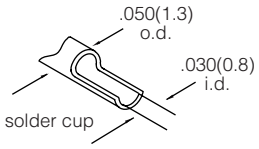
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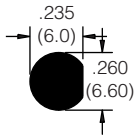
SMA
Bulkhead Receptacles

Fig. 1





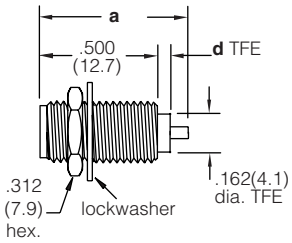


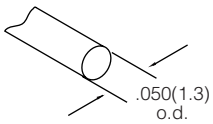


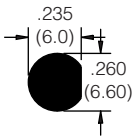
SMA Bulkhead Receptacle
Rear Mount
Solder Cup Terminal
Hex Flange
901-9211
Gold Plated, Epoxy Captivated
901-9211-SF
Passivated Finish, Epoxy Captivated
901-10032-SF
Gold Plated, Mechanically Captivated
901-10032
Passivated Finish, Mechanically Captivated

Fig. 2





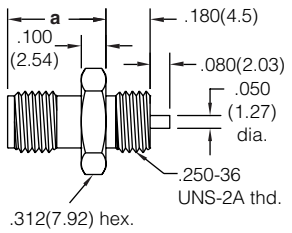


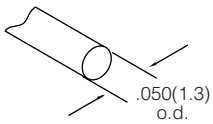


SMA Bulkhead Receptacle
Front or Rear Mount
Blunt Post Terminal
901-9220
Gold Plated
901-9220-SF
Passivated Finish
901-9835
Gold Plated/Flush TFE

Fig. 3









SMA Bulkhead Receptacle
Front Mount
Post Terminal
Hex Flange
901-9841
Gold Plated
without Nut & Washer

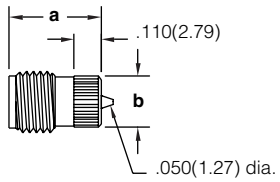
SMA BULKHEAD RECEPTACLES – female contacts

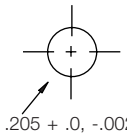
Description	Terminal Type	Plt.	Ins.	Construction Notes		Dim Inches (mm) a	Dim Inches (mm) d	Amphenol Number	Fig.
Rear Mount/ Hex Flange	Solder Cup	P10	D1	Captive Contact/	Gold Plated	.668(17.0)	.066(1.7)	901-9211	1
	Solder Cup	P13	D1	.066(1.7mm) Exposed TFE	Passivated	.668(17.0)	.066(1.7)	901-9211-SF	1
Front or Rear Mount	Blunt Post	P10	D1	Captive Contact/	Gold Plated	.660(16.7)	.076(1.9)	901-9220	2
	Blunt Post	P13	D1	.076(1.9mm) Exposed TFE	Passivated	.660(16.7)	.076(1.9)	901-9220-SF	2
	Blunt Post	P11	D1	Captive Contact/Flush TFE	Gold Plated	.625(15.9)	.076(1.9)	901-9835	2
Front Mount	Post	P11	D1	Flush TFE	Gold Plated	.400(10.2)	—	901-9841	3
Rear Mount Hex. Flange	Solder Cup	P10	D1	Mechanically captivated	Gold Plated	.668(17.0)	.066(1.7)	901-10032	1
	Solder Cup	P13	D1	Mechanically captivated	Passivated	.668(17.0)	.066(1.7)	901-10032-SF	1

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Fig. 1



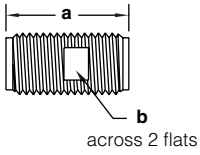




SMA
Bulkhead Receptacle
(Plug)
Press-Fit Mount
901-9856

Fig. 2



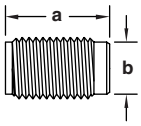




SMA
Bulkhead Receptacle
(Jack)
901-9847

Fig. 3







SMA
Launcher
901-9023

SMA BULKHEAD RECEPTACLES – female contacts

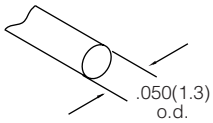
Description	Terminal Type	Plt.	Ins.	Construction Notes		Dim Inches (mm) a	Dim Inches (mm) b	Amphenol Number	Fig.
Press-Fit	Tab	P13	D1	Flush TFE	Passivated	.375(9.53)	.206(5.23)	901-9856	1
Front or Rear Mount	Socket	P13	D1	Flush TFE	Passivated	.500(12.7)	.210(5.33)	901-9847	2
	Socket	P13	D1	Flush TFE/ w/o Nut & Washer	Passivated	.425(10.8)	.210(5.33)	901-9023	3

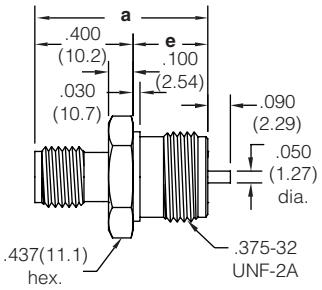
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SMA
Mid-Flange Receptacles

Fig. 1





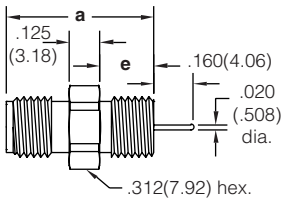




SMA Mid-Flange
Bulkhead Receptacle
Front Mount
Post Terminal
901-9842

Fig. 2



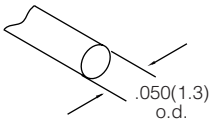


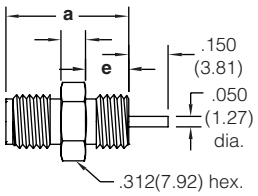


SMA Mid-Flange
Bulkhead Receptacle
Front Mount
Post Terminal
901-9909

Fig. 3









SMA Mid-Flange
Bulkhead Receptacle
Front Mount
Post Terminal
901-9911

SMA MID-FLANGE BULKHEAD RECEPTACLES – female contacts

Description	Terminal Type	Plt.	Ins.	Construction Notes		Dim Inches (mm)		Amphenol Number	Fig.
						a	e		
Front Mount	Blunt Post	P13	D1	Flush TFE	Passivated	.706(17.9)	.306(7.77)	901-9842	1
Front Mount	Blunt Post	P13	D1	.020 Spherical Radius	Passivated	.600(15.2)	.220(5.89)	901-9909	2
Front Mount	Blunt Post	P12	D1	Gold over Copper Contact	Passivated	.500(12.7)	.188(4.78)	901-9911	3

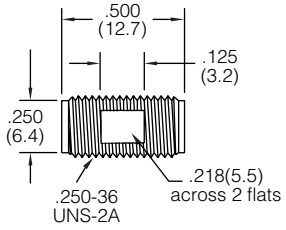
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In-series Adapters

Fig. 1

DC-18 GHz
1.14 VSWR
max.



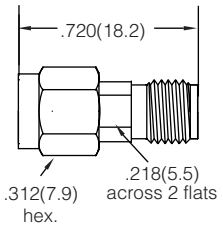


SMA Straight Adapter, Jack-Jack
901-9217
Gold Plated
901-9217-SF
Passivated Finish

Fig. 2

DC-18 GHz
1.14 VSWR max.



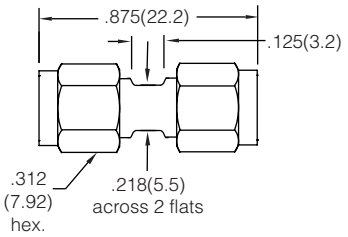


SMA Straight Adapter, Plug-Jack
901-9216
Gold Plated
901-9216-SF
Passivated Finish

Fig. 3

DC-18 GHz
1.14 VSWR max.



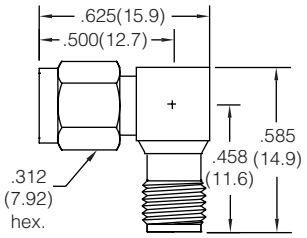


SMA Straight Adapter, Plug-Plug
901-9218
Gold Plated
901-9218-SF
Passivated Finish

Fig. 4

DC-18 GHz
1.23 VSWR max.





SMA Angle Adapter, Plug-Jack
901-125-11
Gold Plated
901-125-11SF
(M55339/02-30001) Passivated

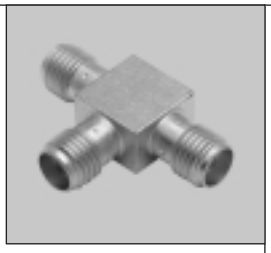
SMA IN-SERIES ADAPTERS

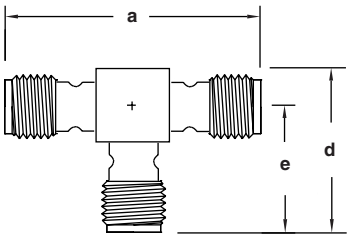
Description	Plt.	Ins	Notes		Mil. No. M55339/	Amphenol Number	Fig.
Straight Jack-Jack	P9	D1	DC-18GHz Max. VSWR 1.14 Captive Contact	Gold Plated	—	**901-9217**	1
	P12			Passivated	—	**901-9217-SF**	
Straight Plug-Jack	P9	D1	DC-18GHz Max. VSWR 1.14 Captive Contact	Gold Plated	—	**901-9216**	2
	P12			Passivated	—	**901-9216-SF**	
Straight Plug-Plug	P10	D1	DC-18GHz Max. VSWR 1.14 Captive Contact	Gold Plated	—	**901-9218**	3
	P12			Passivated	—	**901-9218-SF**	
Angle Plug-Jack	P13	D1	DC-18GHz Max. VSWR 1.23 Captive Contact	Gold Plated	—	**901-125-11**	4
	P13			Passivated	02-30001	**901-125-11SF**	

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SMA
In-Series Adapters

Fig. 1

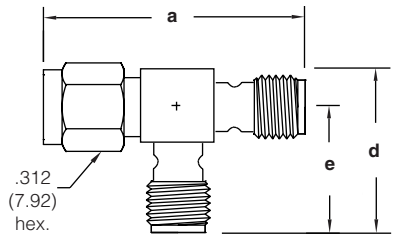




SMA Tee Adapter
Jack-Jack-Jack
901-178
Gold Plated

Fig. 2

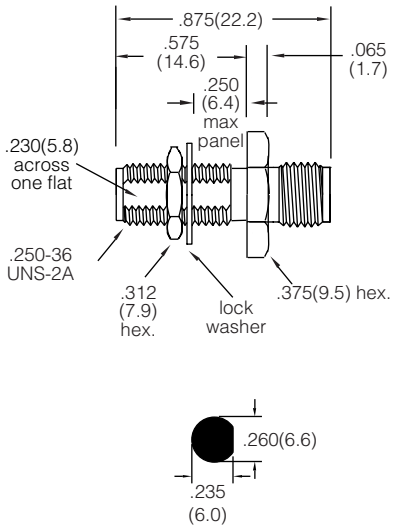




SMA Tee Adapter
Plug-Jack-Jack
901-382-1
Gold Plated

Fig. 3





SMA Bulkhead Adapter
Jack-Jack
901-9209-A
Gold Plated
901-9209-ASF
Passivated Finish

SMA IN-SERIES TEE ADAPTERS

Description	Dimensions, Inches (millimeters)			Plt.	Ins	Notes	Amphenol Number	Fig.
	a	d	e					
Tee Adapter, Jack-Jack-Jack	1.00(25.4)	.687(17.5)	.500(12.7)	P9	D1	BeCu Body	901-178	1
Tee Adapter, Plug-Jack-Jack	1.08(27.4)	.687(17.5)	.500(12.7)	P9	D1	BeCu Body	901-382-1	2

SMA IN-SERIES BULKHEAD ADAPTERS

Description	Plt.	Ins	Notes	Amphenol Number	Fig.
Bulkhead Jack-Jack Front or Rear Mount	P11 P13	D1	DC-18GHz Max. VSWR 1.14 Captive Contact	901-9209-A 901-9209-ASF	3

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Amphenol has available a line of 50 ohm SMA brass connectors as a cost effective solution for applications where stainless steel construction is not required. This gives the design engineer flexibility with performance to complete projects with world class components.

Amphenol series 901 SMA brass connectors are semi-precision, subminiature units which provide electrical performance from DC to 18 GHz. These high performance connectors are compact in size and mechanically have outstanding durability.

Features/Benefits

- Amphenol brass SMA connectors feature pre-assembled captive center contacts, brass body and coupling nuts.
- Connectors are built in accordance with MIL-C-39012.
- Can be mated with all connectors which meet the military specification mating diameters regardless of manufacturer.
- Available for .085" and .141" diameter semi-rigid cables and all the standard flexible cables including double shielded RG-316.
- Connectors are adaptable to the interconnection requirements of both systems and components.

SPECIFICATIONS*

ELECTRICAL

Impedance	50 ohms
Frequency range	.141" & .085" O.D. copper jacket semi-rigid cable. 0-18GHz. Flexible cables: 0-12.4 GHz.
Voltage rating	RG-58,141,142: 500 volts peak RG-174, 188, 316:, 375 volts peak
Dielectric withstanding voltage	.141" & RG-58 group: 1,000 VRMS. .085" & RG-316 group: 750 VRMS.
VSWR (straight connectors)	.141" O.D. semi-rigid cable: 1.05 + .005 f RG-174 group: 1.15 + .02 f RG-58 group: 1.15 + .01 f RG-178 group: 1.20 + .025 f
Contact resistance	Center: 2.0 milliohms Body: 2.0 milliohms Braid to body: 0.5 milliohms
Insulation resistance:	5000 megohms
RF leakage	-90 dB min. at 2.3 GHz
Insertion loss:	dB max. = .06 $\sqrt{f(GHz)}$ Test frequency @ 6.0 GHz

MATERIAL

Bodies, coupling nuts, other metal parts (except as noted)	Brass per QQ-B-626
Contacts Male: Female:	 Brass Beryllium copper, heat treated
Plating: Center contacts,	.000030" min. gold
Plating: Other metal parts	Standard .000010" gold or nickel plated
Insulators	TFE fluorocarbon
Gaskets	Silicone rubber
Crimp ferrules	Seamless copper tubing alloy

MECHANICAL‡

Mating	.250-36 Threaded coupling
Mating Torque	Minimum: 2 inch pounds 12 N.cm Recommended: 8 to 10 inch pounds 45 N.cm Maximum: 15 inch pounds 60 N.cm
Connector Durability	100 matings

* These characteristics are typical and may not apply to all connectors.

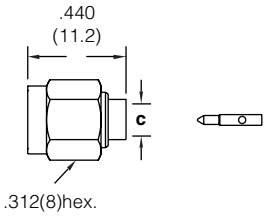
‡ Pressure applied on an SMA outer contact is extremely high; therefore inadequate torque of connector body will result in a slight deformation of the outer contact. Reflections will appear above 2GHz.

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SMA
Brass Plugs

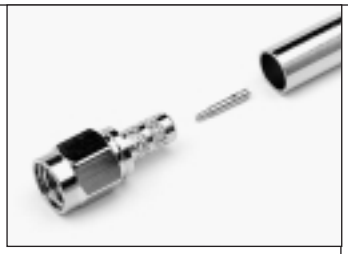
Fig. 1

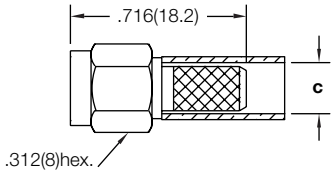




SMA Solder Plug
901-9868-RFX▲
Gold Plated
for .141" S/R
901-9867-RFX▲
Gold Plated
for .085" S/R

Fig. 2

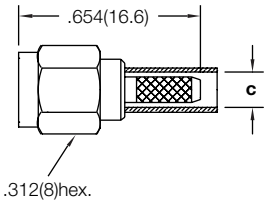




SMA Crimp Plug
Captivated Center Contact
901-9870▲
Gold Plated
for RG-58
901-9871▲
Gold Plated
for RG-223, 141
901-9876-RFX▲
Nickel Plated
for RG-58
901-10009-RFX
Gold Plated for LMR 240
901-10010-RFX
Gold Plated for LMR 200

Fig. 3





SMA Crimp Plug
Captivated Center Contact
901-9877-RFX▲
Nickel Plated
for RG-174, 188, 316
901-9916
Gold Plated
for RG-174, 188, 316
901-10024-RFX
Gold Plated
for RD-174, 188, 316
901-10025-RFX
Nickel Plated
for RD-174, 188, 316

SMA BRASS PLUGS

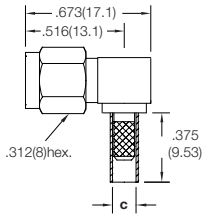
Cable RG-/U	Connector Description	Cable Attachment		c Dia In. (mm)	CAI	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner						
58	Plug	Crimp	Solder	.210(5.3)	C53	D1	Captive Contact	▲ **901-9870**	2
58	Plug	Crimp	Solder	.210(5.3)	C53	D1	Captive Contact	▲ **901-9876-RFX**	2
174, 188, 316	Plug	Crimp	Solder	.128(3.3)	C57	D1	Captive Contact	▲ **901-9877-RFX**	3
RD 174, 188, 316	Plug	Crimp	Solder	.128(3.3)	C57	D1	Captive Contact	**901-9916**	3
RD 174, 188, 316	Plug	Crimp	Solder	.128(3.3)	C57	D1	Captive Contact	**901-10024-RFX**	3
174, 188, 316	Plug	Crimp	Solder	.128(3.3)	C57	D1	Captive Contact	**901-10025-RFX**	3
141, 223	Plug	Crimp	Solder	.220(5.6)	C53	D1	Captive Contact	▲ **901-9871**	2
.085" S/R	Plug	Solder	Solder	.090(2.3)	C47	D1	—	▲ **901-9867-RFX**	1
.141" S/R	Plug	Solder	Solder	.145(3.7)	C47	D1	—	▲ **901-9868-RFX**	1
LMR 240	Plug	Crimp	Solder	.261(6.6)	C53	D1	Captive Contact	**901-10009-RFX**	2
LMR 200	Plug	Crimp	Solder	.206(5.2)	C53	D1	Captive Contact	**901-10010-RFX**	2

▲ distributor stocked

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Brass Angle Plugs & Bulkhead Jacks

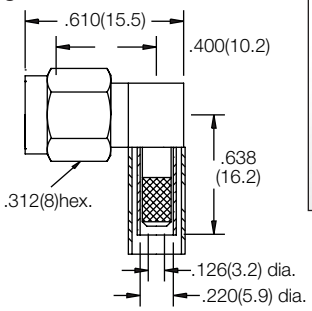
Fig. 1





SMA Angle Plug, Crimp
901-9872▲
Gold Plated for RG-174, 188, 316
901-9873▲
Gold Plated for RG-58
901-9874▲
Gold Plated for RG-141, 223
901-9880-RFX▲
Nickel Plated for RG-58
901-9881-RFX▲
Nickel Plated for RG-174, 188, 316
901-10028-RFX
Gold Plated for RD-174, 188, 316
901-10029-RFX
Nickel Plated for RD-174, 188, 316

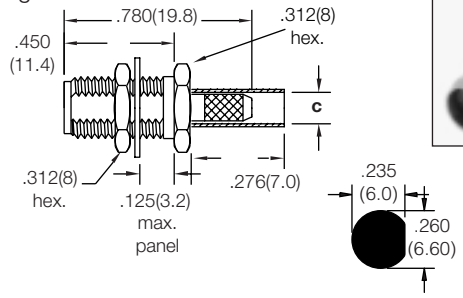
Fig. 2





SMA Low Profile
Angle Plug, Crimp
901-9902
Nickel Plated for RG-141, 223

Fig. 3

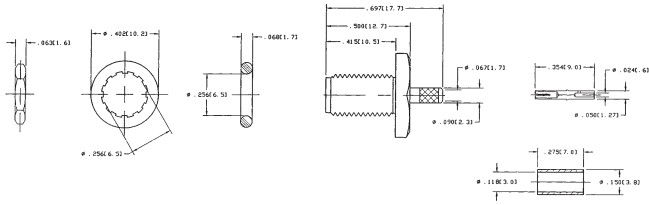




SMA Bulkhead Jack, Crimp
901-9875▲
Gold Plated for RG-174, 188, 316
901-9879-RFX▲
Nickel Plated for RG-174, 188, 316

Fig. 4





SMA Bulkhead Jack with O-Ring
901-10013-RFX
RG-174, 188, 316

SMA BRASS ANGLE PLUGS

Cable RG-/U	Connector Description	Cable Attachment		c Dia In. (mm)	CAI	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner						
58	Angle Plug	Crimp	Solder	.210(5.3)	C53	D1	Gold Plated Body	▲ **901-9873**	1
	Angle Plug	Crimp	Solder	.210(5.3)	C53	D1	Nickel Plated Body	▲ **901-9880-RFX**	1
174, 188, 316	Angle Plug	Crimp	Solder	.128(3.3)	C57	D1	Nickel Plated Body	▲ **901-9881-RFX**	1
	Angle Plug	Crimp	Solder	.128(3.3)	C57	D1	Gold Plated Body	▲ **901-9872**	1
	Angle Plug	Crimp	Solder	.128(3.3)	C57	D1	Gold Plated Body	**901-10028-RFX**	1
	Angle Plug	Crimp	Solder	.128(3.3)	C57	D1	Nickel Plated Body	**901-10029-RFX**	1
141, 223	Angle Plug	Crimp	Solder	.220(5.6)	C53	D1	Gold Plated Body	▲ **901-9874**	1
141, 223	Low Profile Angle Plug	Crimp	Solder	.220(5.6)	C53	D1	Plated Body	**901-9902**	2

SMA BRASS BULKHEAD JACKS

Cable RG-/U	Connector Description	Cable Attachment		c Dia. In. (mm)	CAI	Ins.	Notes	Amphenol Number	Fig.
		Outer	Inner						
174, 188, 316	Bulkhead Jack	Crimp	Solder	.128(3.3)	C53	D1	Gold Plated Body	▲ **901-9875**	3
	Bulkhead Jack	Crimp	Solder	.128(3.3)	C53	D1	Nickel Plated Body	▲ **901-9879-RFX**	3
	Bulkhead Jack	Crimp	Solder	.128(3.3)	C53	D1	Nickel Plated Body	**901-10013-RFX**	4

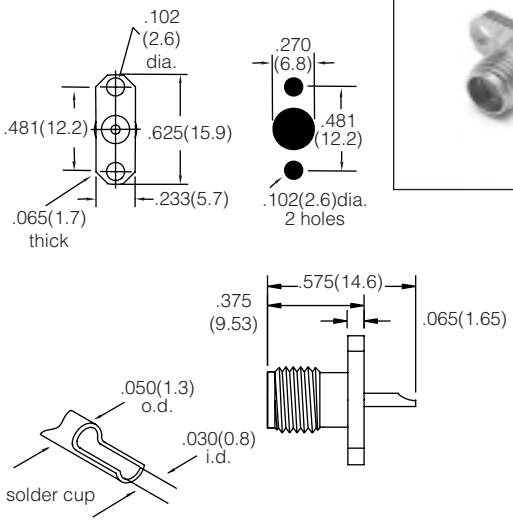
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SMA
Brass Receptacles

Fig. 1





SMA Panel Receptacle (Jack)
Solder Cup terminal
901-9893-RFX▲
Nickel Plated

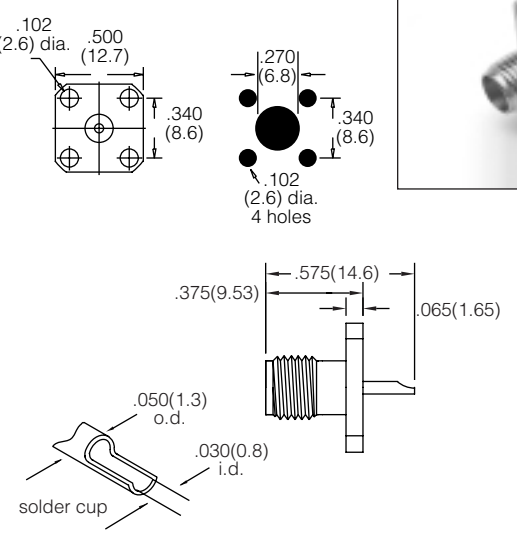
Fig. 2



SMA Panel Receptacle (Jack)
Post terminal
901-9891-RFX▲
Nickel Plated

Fig. 3





SMA Panel Receptacle (Jack)
Solder Cup terminal
901-9892-RFX▲
Nickel Plated

Fig. 4



SMA Panel Receptacle (Jack)
Post terminal
901-9887-RFX▲
Nickel Plated

SMA BRASS PANEL JACK RECEPTACLES

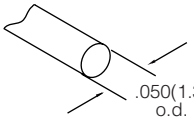
Connector Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig.
Panel Receptacle (Jack)	Solder Cup	D1	Nickel Plated Body	▲ 901-9893-RFX	1
Panel Receptacle (Jack)	Post	D1	Nickel Plated Body	▲ 901-9891-RFX	2
Panel Receptacle (Jack)	Solder Cup	D1	Nickel Plated Body	▲ 901-9892-RFX	3
Panel Receptacle (Jack)	Post	D1	Nickel Plated Body	▲ 901-9887-RFX	4

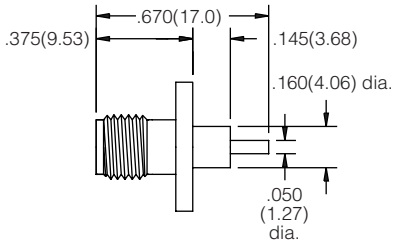
▲ distributor stocked

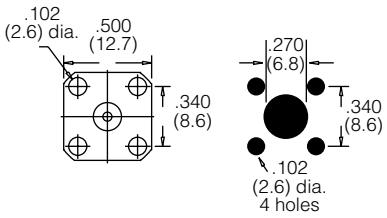
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Fig. 1





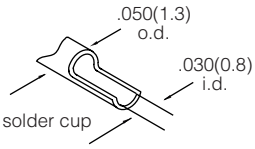


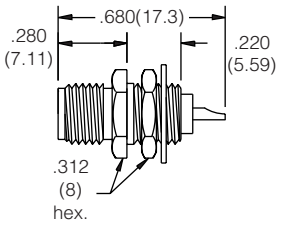


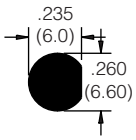
SMA Panel Receptacle (Jack)
Post terminal
901-9888
Gold Plated

Fig. 2





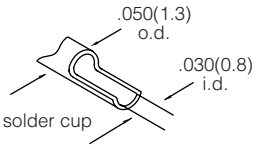


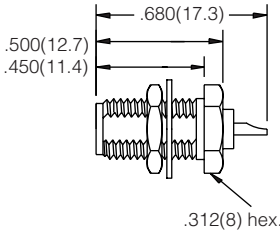


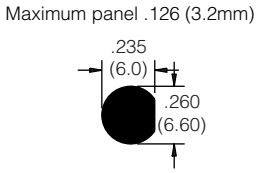
SMA Bulkhead Receptacle (Jack)
Solder Cup terminal
901-9889-RFX▲
Nickel Plated
Front Mount

Fig. 3









SMA Bulkhead Receptacle (Jack)
Solder Cup terminal
901-9890-RFX▲
Nickel Plated
Rear Mount

SMA BRASS PANEL JACK RECEPTACLES

Connector Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig.
Panel Receptacle (Jack)	Post	D1	Gold Plated Body	901-9888	1

SMA BRASS BULKHEAD RECEPTACLES

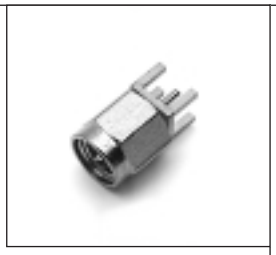
Connector Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig.
Bulkhead Receptacle (Jack), Front Mount	Solder Cup	D1	Nickel Plated Body	▲ 901-9889-RFX	2
Bulkhead Receptacle (Jack), Rear Mount	Solder Cup	D1	Nickel Plated Body	▲ 901-9890-RFX	3

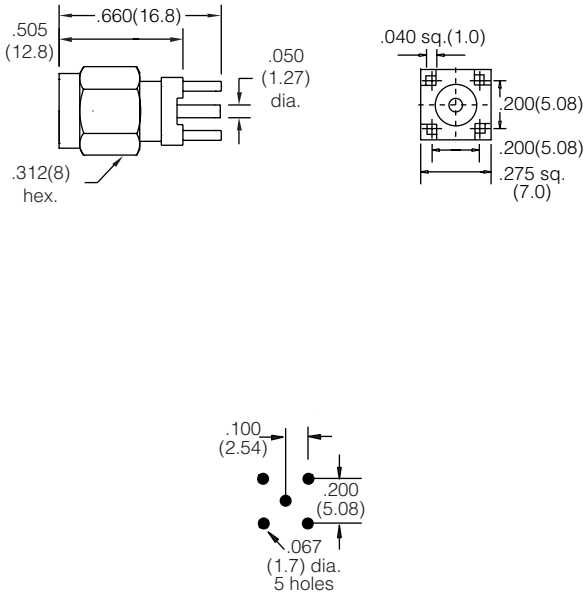
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Brass PCB Receptacles

Fig. 1

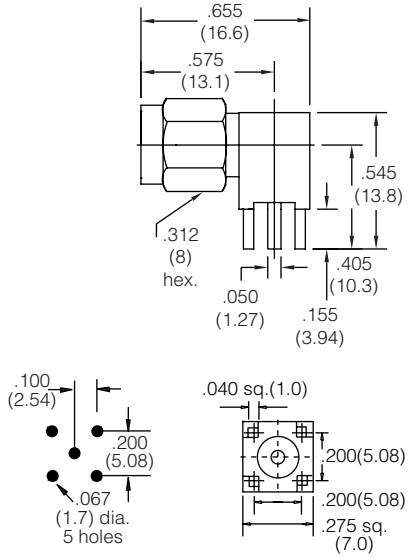




SMA PCB Receptacle
(Plug)
Blunt Post Terminal
Four Legs
901-9895-RFX▲
Gold Plated

Fig. 2





SMA PCB Angle Receptacle
(Plug)
Blunt Post Terminal
Four Legs
901-9894-RFX▲
Gold Plated

SMA BRASS PRINTED CIRCUIT BOARD PLUG RECEPTACLES

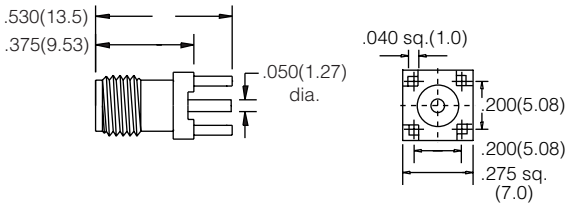
Connector Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig.
PCB Receptacle (P)/ Four Legs	Blunt Post	D1	Gold Plated Body	▲ 901-9895-RFX	1
PCB Angle Receptacle (P)/ Four Legs	Blunt Post	D1	Gold Plated Body	▲ 901-9894-RFX	2

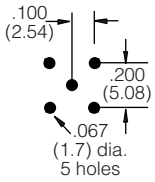
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Fig. 1



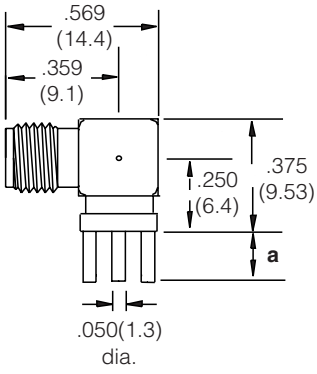


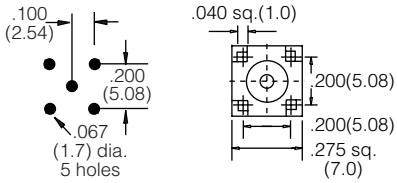


SMA PCB Receptacle
(Jack)
Blunt Post Terminal
Four Legs
901-144-8RFX▲
Gold Plated

Fig. 2







SMA PCB Angle Receptacle
(Jack)
Blunt Post Terminal
Four Legs
901-143-6RFX▲
Gold Plated

SMA BRASS PRINTED CIRCUIT BOARD JACK RECEPTACLES

Connector Description	Terminal Type	Ins	Construction Notes	Amphenol Number	Fig.
PCB Receptacle (J)/ Four Legs	Blunt Post	D1	Gold Plated Body	▲ 901-144-8RFX	1
PCB Angle Receptacle (J)/ Four Legs	Blunt Post	D1	Gold Plated Body	▲ 901-143-6RFX	2

▲ distributor stocked

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SMA
Phase Adjustable Connectors

For phase array radar, test equipment, ILS landing systems and other instrumentation using phase matching techniques, these SMA connectors for semi-rigid coaxial cables and the SMA plug-to-Jack adapter offer a precise and simple means of phase adjustment for microwave devices.

Features/Benefits

- Connectors incorporate a threaded interconnection of variable length.
- Adjustment nut creates incremental changes in connector length and angle.
- Proper phase setting for each cable is maintained by connector locking-nuts.

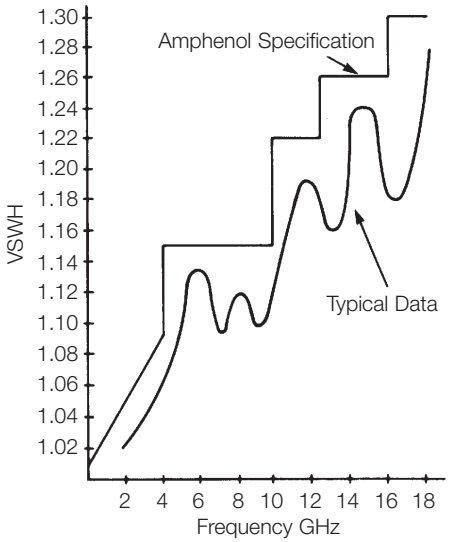
  (For example, one revolution of the adjustment nut results in a phase angle change of 5.7° for a 9 GHz signal [0.636 x 9]°.)
- Connectors provide ease of mechanical screw adjustments, compared to the delays and expense of laborious cable-trimming.
- Allow phase matching to be performed at the final production stages.

SPECIFICATIONS*

ELECTRICAL

Impedance	50 ohms
Frequency range	DC-18GHz.
Insertion loss:	dB max. For Adapter 901-508 = .1 $\sqrt{f(GHz)}$ For Plug 901-509 = .08 $\sqrt{f(GHz)}$
VSWR	See chart below
Phase Angle Adjustment Range in degrees	For Adapter 901-508 and Plug 901-509, = 0° to [10 x f(GHz)]° max
Phase Angle change per revolution of Adjustment Nut in degrees	For Adapter 901-508 and Plug 901-509, = [0.636 x f(GHz)]°
Voltage rating	500 VRMS peak

SWEPT VSWR DATA



MECHANICAL

Mating	Mating face dimensions compatible with the mating requirements of MIL-C-39012/55 (Type SMA)
Connector Durability	(SMA interface) 500 cycles of mating and unmating without deterioration

MATERIAL

Center Contact	Beryllium copper, Gold plated
Connector Body	Brass or Beryllium Copper, Gold plated
Adjusting Nuts and Locking Nuts	Brass with ASTRO plate finish
Connector Coupling Nut	Stainless Steel, Passivated
Insulation	TFE

ENVIRONMENTAL

Shock	MIL-Std. 202 method 213 (test cond. I)
Vibration	MIL-Std. 202 method 204 (test cond. D)
Corrosion	MIL-Std. 202 method 101 (test cond. B)
Temperature range	-65°C to + 125°C

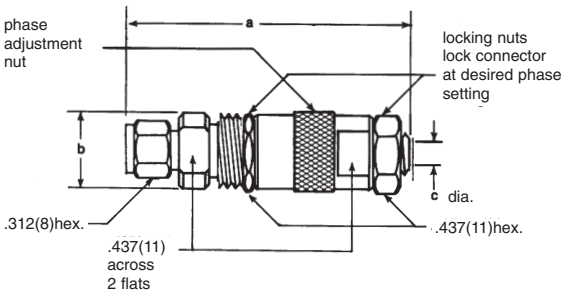
* These characteristics are typical and may not apply to all connectors.

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Phase Adjustable Connectors

Fig. 1

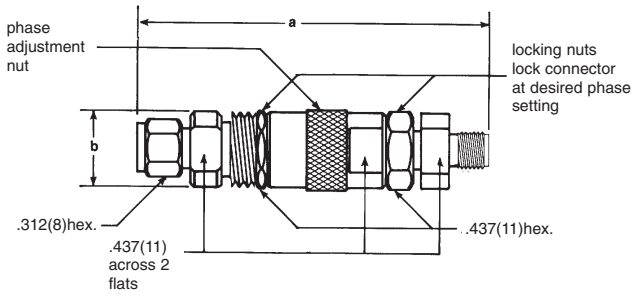




SMA Phase Adjustable Plug
901-509

Fig. 2





SMA Adapter - Plug to Jack
901-508

Description	Semi-Rigid Cable Size	Cable Termination	Dimensions, Inches (millimeters)				CAI	Plt.	Ins.	Amphenol Number	Fig.
			a		b	c					
			(Fully Extended	(Fully Closed)							
Plug	.141"(3.6) dia.	Solder	2.03(51.6)	1.68(42.7)	.500(12.7)	.144(3.7)	C51	PCF	D1	901-509	1
Adapter	—	—	2.50(63.5)	2.15(54.6)	.500(12.7)	—	—	PCF	D1	901-508	2

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Description

APC stands for Amphenol Precision Connectors and was developed by Amphenol and Hewlett-Packard engineers. The Precision family is comprised of APC-2.4, APC-3.5, APC-N, APC-7.

Amphenol's APC is the first instrument-grade coaxial connector line to achieve repeatable TE11 mode resonance-free signal transmission from DC to 50 GHZ with a minimum return loss of 26 dB.

These 50 ohm connectors are designed primarily for use in test and measurement equipment where reliable performance through repeated connect/disconnect cycles is critical.

Features/Benefits

- Interface dimensions which minimize distortion/deterioration of the mating surfaces.
- Fixed bead-contact assembly which prevents transmission of mating torques to circuit elements.
- M7xO.75 thread for coupling durability and small overall connector size.
- Mating sequence in which the outer conductors before the center contacts meet, eliminating female center contact damage during mating.
- Plug coupling nut that extends beyond the male center contact to protect the contact while in the unmated condition.

Application

- Cable Assemblies
- Instrumentation
- Military
- Radio Astronomy
- Satcom

APC 2.4

Specifications 86
Plugs & Jacks 87
Adapters 88

APC 3.5

Specifications 89
Plugs & Jacks 90-92

APC 7

Specifications 93
Connectors 94
Components & Accessories 95

APC N

Specifications 96
Plugs & Jacks 97

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The initial Amphenol® APC-2.4™ offering includes the male and female connectors for termination to 2.4mm rigid coaxial airline and twenty-two between-series adapters for high performance transitions from the 2.4mm interface to six other microwave coaxial connectors: APC-3.5®, APC-7®, APC-N, SMA, and the Wiltron K - connector.™*

*K connector is a trademark of Wiltron Co.

Features/Benefits

- DC to 50 GHz — provides highly accurate measurements which eliminate the need for costly waveguide components
- M7 x .075 coupling — provides durability and small overall connector size
- Mating sequence outer connector first — eliminates female center conductor contact damage during mating
- Coupling nut extends beyond male center contact — protects center conductor while in the unmated condition

Specifications

ELECTRICAL

	Test Requirement
Impedance	50 ohms
Frequency range	DC-50 GHz
Return loss (min.) DC to 18 GHz: 18 to 26.5 GHz: 26.5 to 50 GHz:	 >36 dB >32 dB >26 dB
Insertion loss:	≤0.06 dB
Contact resistance Inner: Outer:	 < 1.5 milliohms < 0.8 milliohms
Voltage rating:	400 Vrms
Dielectric Withstanding Voltage (max.):	1200 Vrms
Max. power (watts @ sea level)	1000 W/ $\sqrt{f\ (MHz)}$

* These characteristics are typical and may not apply to all connectors.

ENVIRONMENTAL

Temperature range	-70°C to + 80°C

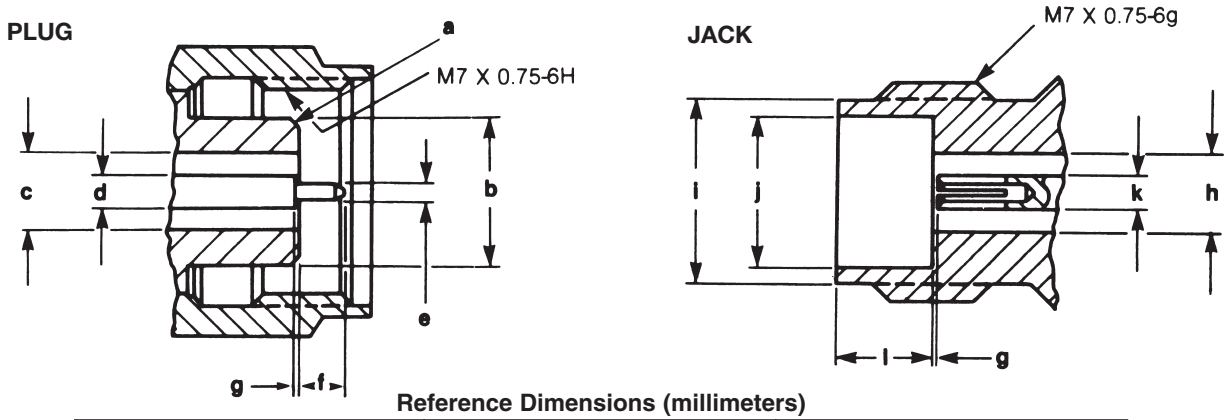
MECHANICAL

Mating	M7 x 0.75 threaded coupling
Recommended Mating torque	8 to 10 inch pounds (0.9 to 1.1 N-m)

MATERIAL

Body	Gold plated beryllium copper
Coupling Nut	Passivated stainless steel
Body	Gold plated beryllium copper

NOTE: For mated pair APC-2.4 connectors on 2.4mm airlines.

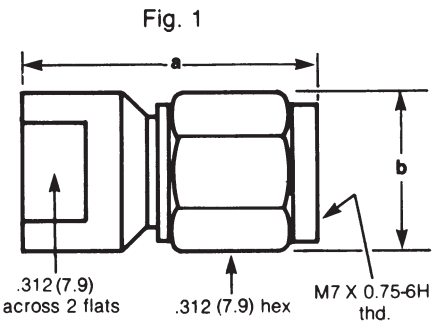


Reference Dimensions (millimeters)

a 0.25/0.36 x 45°	**e** ø 0.511 ±0.005	**i** ø 5.84 ±0.005
b ø 4.75 $^{+0}_{-0.025}$	**f** ø 1.39 ±0.06	**j** ø 4.77 $^{\pm0.0025}_{-0}$
c ø 2.400 ±0.005	**g** ø 0.000 $^{\pm0.053}_{-0}$	**k** ø 1.042 ±0.0025
d ø 1.042 ±0.0025	**h** ø 2.400 ±0.005	**l** ø 3.05 ±0.05

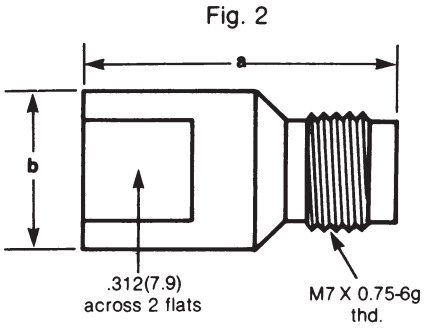
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Fig. 1



APC-2.4™ Plug
131-8001

Fig. 2



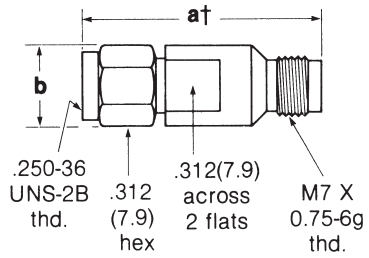
APC-2.4™ Jack
131-8002

Description	Dimensions, Inches (mm)		CAI	Amphenol Number	Fig.
	a	b			
Plug	.665 (16.9)	.312 (7.9) hex	C65	131-8001	1
Jack	.700 (17.8)	.360 (9.1) dia.	C65	131-8002	2

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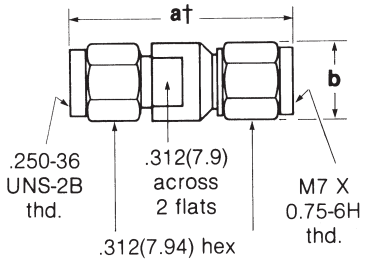
APC 2.4, Adapters

Fig. 1



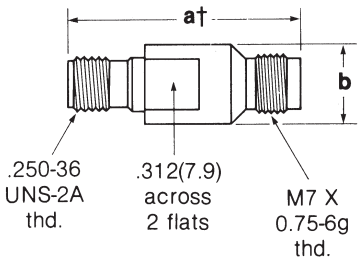
APC-3.5 Plug
to APC-2.4 Jack
131-8004

Fig. 2



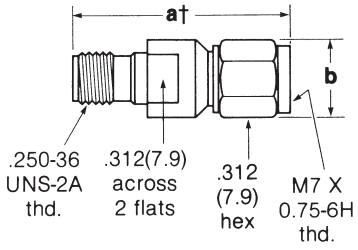
APC-3.5 Plug
to APC-2.4 Plug
131-8005

Fig. 3



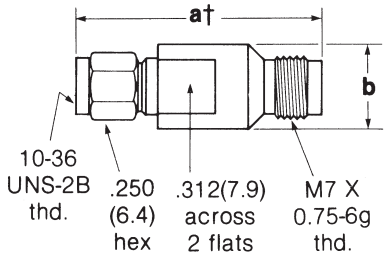
APC-3.5 Jack
to APC-2.4 Jack
131-8006

Fig. 4



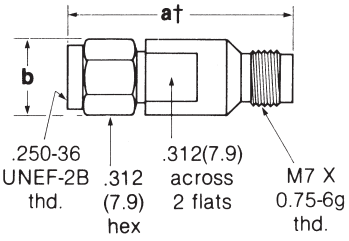
APC-3.5 Jack
to APC-2.4 Plug
131-8003

Fig. 5



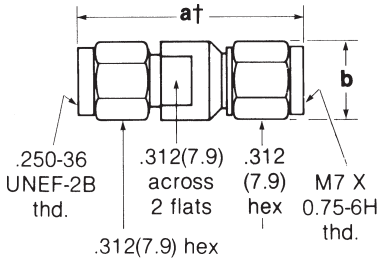
SSMA Plug
to APC-2.4 Jack
131-8022

Fig. 6



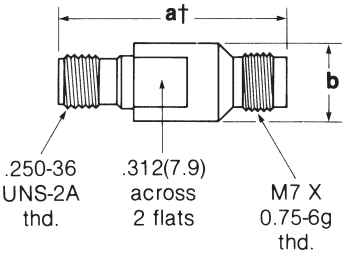
K-Male
to APC-2.4 Jack
131-8018

Fig. 7



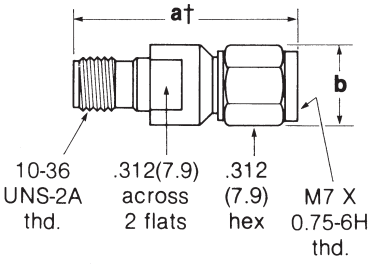
K-Male
to APC-2.4 Plug
131-8019

Fig. 8



K-Female
to APC-2.4 Jack
131-8020

Fig. 9



K-Female
to APC-2.4 Plug
131-8017

PRECISION APC-2.4™ STRAIGHT ADAPTERS BETWEEN SERIES

Adapter Ends		Dimensions inches (mm) b	Return Loss (minimum)	Amphenol Number	Fig.
APC-3.5 Plug	APC-2.4 Jack	.312 (7.9) hex	30 dB to 26.5 GHz/28 dB to 34 GHz	131-8004	1
APC-3.5 Plug	APC-2.4 Plug	.312 (7.9) hex	30 dB to 26.5 GHz/28 dB to 34 GHz	131-8005	2
APC-3.5 Jack	APC-2.4 Jack	.360 (9.14)	30 dB to 26.5 GHz/28 dB to 34 GHz	131-8006	3
APC-3.5 Jack	APC-2.4 Plug	.312 (7.9) hex	30 dB to 26.5 GHz/28 dB to 34 GHz	131-8003	4
SSMA Plug	APC-2.4 Jack	.360 (9.14)	29 dB to 18 GHz/26 dB to 24 GHz	131-8022	5
K-Male	APC-2.4 Jack	.312 (7.9) hex	29 dB to 26.5 GHz/26 dB to 40 GHz	131-8018	6
K-Male	APC-2.4 Plug	.312 (7.9) hex	29 dB to 26.5 GHz/26 dB to 40 GHz	131-8019	7
K-Female	APC-2.4 Jack	.360 (9.14)	29 dB to 26.5 GHz/26 dB to 40 GHz	131-8020	8
K-Female	APC-2.4 Plug	.312 (7.9) hex	29 dB to 26.5 GHz/26 dB to 40 GHz	131-8017	9

† Envelope dimension a is a maximum of 1.5" (38.1mm) for all APC-2.4 adapters shown above. The length from reference plane to reference plane for each of these adapters is identical and equals .850" (21.6mm).

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Amphenol® APC-3.5® connectors are a high performance, 50 ohm coaxial connector designed to exhibit low VSWR, low loss, and be resonance free to 34 GHz.

Features/Benefits

- Connectors are designed for use with 3.5mm rigid airline, .085 and .141 semi-rigid cable.
- Air dielectric mating face and thicker outer conductor shoulder.
- APC-3.5 design maintains mechanical and electrical integrity through repeated mating cycles.
- APC-3.5 will mate with SMA connectors.
- Provides VSWR performance typical of SMA mated pairs up to 18 GHz.

Instructions for assembling APC-3.5 connectors to 3.5mm airline are given on page XX.

Specifications

ELECTRICAL

	Test Requirement
Impedance	50 ohms
Frequency range	0-34 GHz
VSWR	Connectors on airline 1.01 + .004f (GHz)
Insertion loss (in dB)	.015 $\sqrt{f\ (MHz)}$
RF Leakage	> 100 dB @ 26.5 GHz
Contact resistance	Inner: < 2.0 milliohms Outer: < 0.4 milliohms
Voltage rating:	500 Vrms
Dielectric Withstanding Voltage (max.):	1500 Vrms
Max. power (watts @ sea level)	2.5 kW / $\sqrt{f\ (MHz)}$ above 1 (MHz)

ENVIRONMENTAL

Mating	1/4-36 threaded coupling

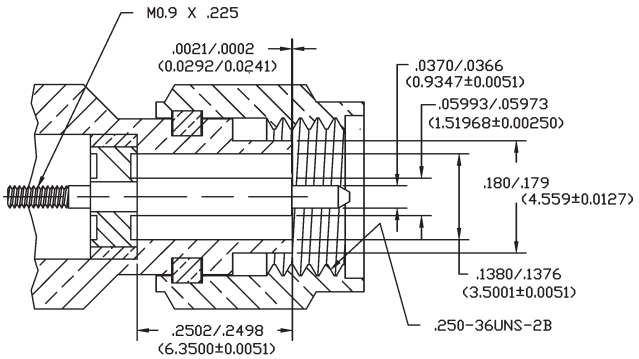
MECHANICAL

Body and Coupling Nut	Gold plated beryllium copper
Center Contacts	Gold plated beryllium copper

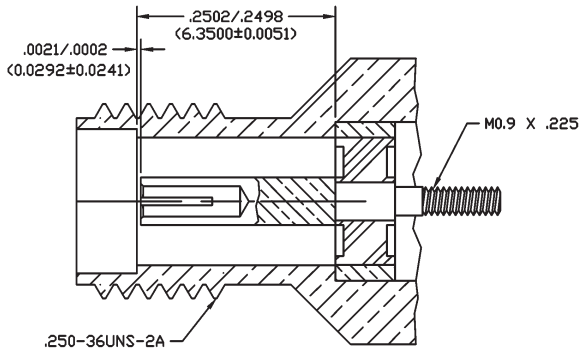
MATERIAL

Temperature range	-65°C to + 85°C
Humidity	20 to 80% RH
Pressure	590 to 780 mm Hg

PLUG

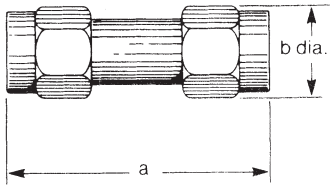


JACK



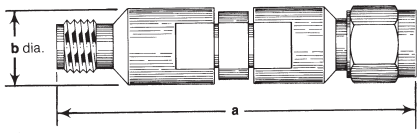
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Fig. 1



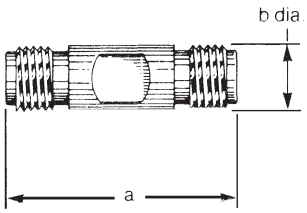
Plug (male) to Plug (male)
131-7021

Fig. 2



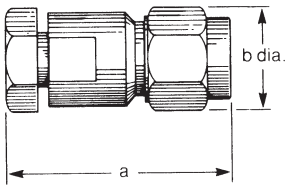
Plug (male) to Jack (female)
131-7022

Fig. 3



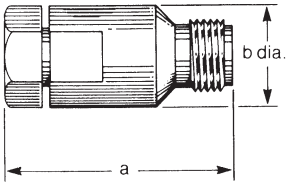
Jack (female) to Jack (female)
131-7023

Fig. 4



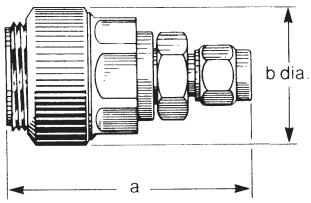
APC-3.5 Plug (male)
131-7024

Fig. 5



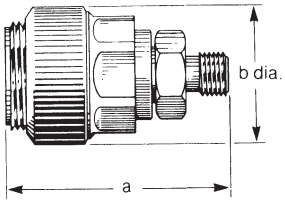
APC-3.5 Jack (female)
131-7025

Fig. 6



APC-7-APC-3.5 Plug
131-91045

Fig. 7



APC-7-APC-3.5 Jack
131-91046

ADAPTERS WITHIN SERIES

Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	Amphenol Number	Fig.
Plug (male) — Plug (male)	1.78 (45.3)	.360 (9.1)	131-7021	1
Plug (male) — Jack (female)	1.75 (44.5)	.360 (9.1)	131-7022	2
Jack (female) — Jack (female)	1.71 (43.5)	.360 (9.1)	131-7023	3

SHORT CIRCUIT TERMINATION

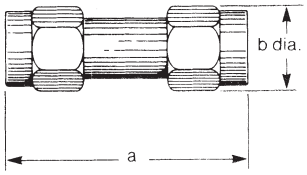
Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	CAI	Amphenol Number	Fig.
APC-3.5 Plug (male)	.902 (23.0)	.360 (9.1)	C66	131-7024	4
APC-3.5 Jack (female)	.862 (21.9)	.360 (9.1)	C66	131-7025	5

ADAPTERS

Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	Amphenol Number	Fig.
APC-7-APC-3.5 Plug	1.567 (39.8)	.875 (22.2)	131-91045	6
APC-7-APC-3.5 Jack	1.483 (37.7)	.875 (22.2)	131-91046	7

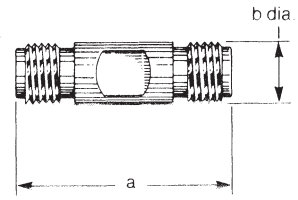
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Fig. 1



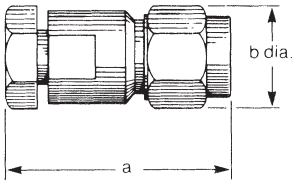
Plug - Plug 2.0 CM
131-7034

Fig. 2



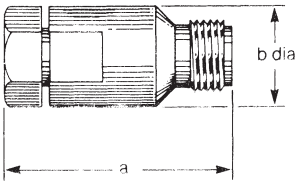
Jack - Jack 2.0 CM
131-7033

Fig. 3



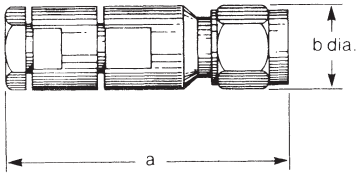
Open Circuit Plug
131-7029

Fig. 4



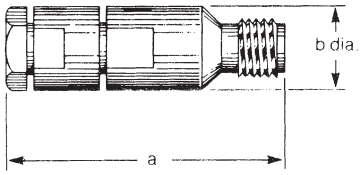
Open Circuit Jack
131-7028

Fig. 5



Offset Short Circuit Plug
131-7015

Fig. 6



Offset Short Circuit Jack
131-7016

AIRLINE ASSEMBLIES

Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	Amphenol Number	Fig.
Plug - Plug 2.0 CM	1.07 (27.3)	.360 (9.1)	131-7034	1
Jack - Jack 2.0 CM	.939 (23.9)	.250 (6.4)	131-7033	2

OPEN CIRCUIT TERMINATION

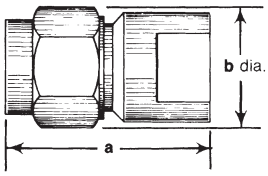
Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	CAI	Amphenol Number	Fig.
Plug	.902 (23.0)	.360 (9.1)	C66	131-7029	3
Jack	.862 (21.9)	.360 (9.1)	C66	131-7028	4

OFFSET SHORT CIRCUIT TERMINATION

Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	CAI	Amphenol Number	Fig.
Plug (2-4 GHz)	1.801 (45.7)	.360 (9.1)	C66	131-7015-1	5
Plug (4-8 GHz)	1.306 (33.2)	.360 (9.1)	C66	131-7015-2	5
Plug (8-12.4 GHz)	1.206 (30.6)	.360 (9.1)	C66	131-7015-3	5
Plug (12.4-18 GHz)	1.206 (30.6)	.360 (9.1)	C66	131-7015-4	5
Jack (2-4 GHz)	1.766 (44.9)	.360 (9.1)	C66	131-7016-1	6
Jack (4-8 GHz)	1.271 (32.3)	.360 (9.1)	C66	131-7016-2	6
Jack (8-12.4 GHz)	1.171 (29.7)	.360 (9.1)	C66	131-7016-3	6
Jack (12.4-18 GHz)	1.171 (29.7)	.360 (9.1)	C66	131-7016-4	6

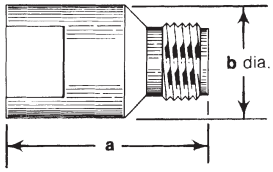
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Fig. 1



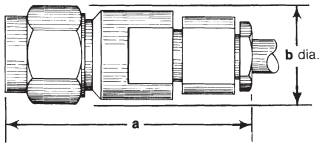
Plug for 3.5 mm Airline
131-7001

Fig. 2



Jack for 3.5 mm Airline
131-7002

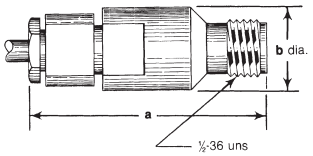
Fig. 3



131-7004

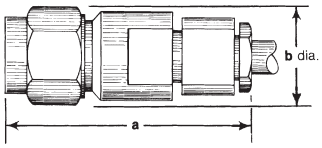
Fig. 4





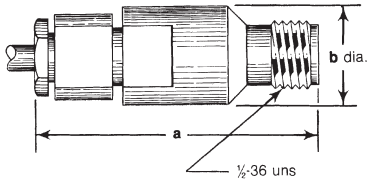
Jack for Semi-Rigid Cable
131-7005

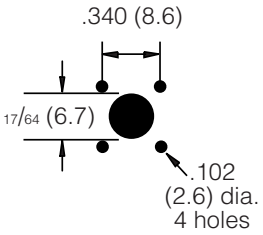
Fig. 5



Plug for Semi-Rigid Cable
131-7006

Fig. 6





Panel Jack for Semi-Rigid Cable
131-7008

PLUGS • JACKS • PANEL JACKS

Cable	Inner Attachment	Cable Termination	Dimensions Inches (mm) a	b	c	CAI	Construction Notes	Amphenol Number	Fig.
3.5mm Airline	Plug (male)	Screw Thds.	.799 (20.3)	.312 (7.9)	—	C66	—	131-7001	1
	Jack (female)	Screw Thds.	.761 (19.3)	.321 (9.1)	—	C66	—	131-7002	2
Rg-405 (.085" Dia. Metal) Jacketed, Semi-Rigid Cable	Plug (male)	Solder	1.104 (28.0)	.312 (7.9)	—	C66	—	131-7004	3
	Jack (female)	Solder	1.069 (27.2)	.360 (9.1)	—	C66	—	131-7005	4
	Panel Jack	Solder	1.069 (27.2)	.500 (12.7)	.335/.315 (8.3 ± 0.3)	C66	Mtg. Hole Z/max. panel thick .085 (2.2)	131-7008	6
Rg-402 (.141" Dia. Metal) Jacketed, Semi-Rigid Cable	Plug (male)	Solder	1.104 (28.0)	.312 (7.9)	—	C66	—	131-7006	5
	Jack (female)	Solder	1.069 (27.2)	.360 (9.1)	—	C66	—	131-7007	–

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APC-7™ Coaxial Connectors

Amphenol® APC-7™ connectors are precision devices which provide long life and accurate, repeatable performance in test and instrumentation applications.

Features/Benefits

- Primarily for use with rigid 7mm airline (7mm = the inner diameter of the airline outer conductor).
- Designs are also available for use with .250 semi-rigid cable, and RG-214/U flexible cable.
- Coupling mechanism is sexless thus permitting any two APC-7 connectors to be mated.
- A certified test report of VSWR will be provided when a mated pair of APC-7 connectors is ordered (131 - 91050).

NOTE: A fluted nut design is provided as an option to APC-7 connectors. To order the fluted nut configuration, simply delete the "9" from the core part number; for example:

131-91051 Hex Knurled Nut
131-1051 Fluted Nut

Specifications

ELECTRICAL

	Test Requirement
Impedance	50 ohms
Frequency range	0-18 GHz
VSWR	Connectors on airline 1.003 + .002f (GHz)
Insertion loss (in dB)	$< 7x10^{-3} \sqrt{f\ (MHz)}$ example: 0.028 dB at 16.0 GHz)
RF Leakage	< signal inside coaxial line by ratio > 120 dB
Electrical length	.693 inches (1.76 cm)
Contact resistance	Inner: < 1.0 milliohms Outer: < 0.1 milliohms
Voltage rating:	1000 Vrms
Dielectric Withstanding Voltage (max.):	2500 Vrms
Max. power (watts @ sea level)	Above 1 MHz = 10kW/ $\sqrt{f\ (MHz)}$ up to 1 MHz = 10kW

ENVIRONMENTAL

Mating	Sexless, coplanar by means of threaded ring housed within coupling nut·
Life	> 5000 connect/disconnect operations

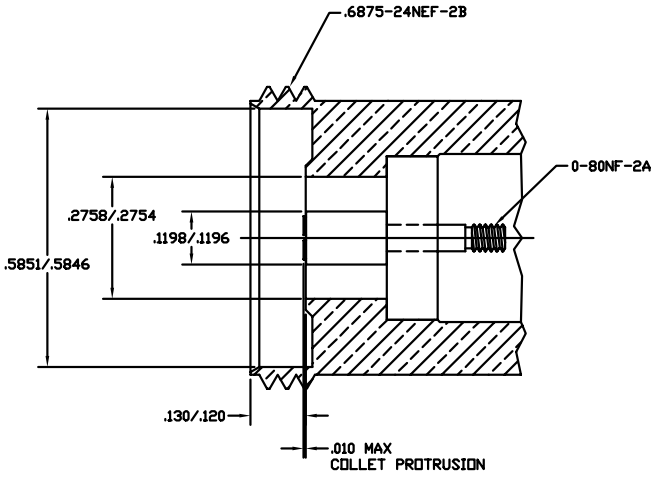
MECHANICAL

Coupling mechanism	Stainless steel
Body	Gold plated beryllium copper
Center Contacts	Gold plated beryllium copper
Dielectric support	Air-polyphenelene oxide composite
Clamping components Crimp ferrule	Nickel plated brass Nickel plated copper

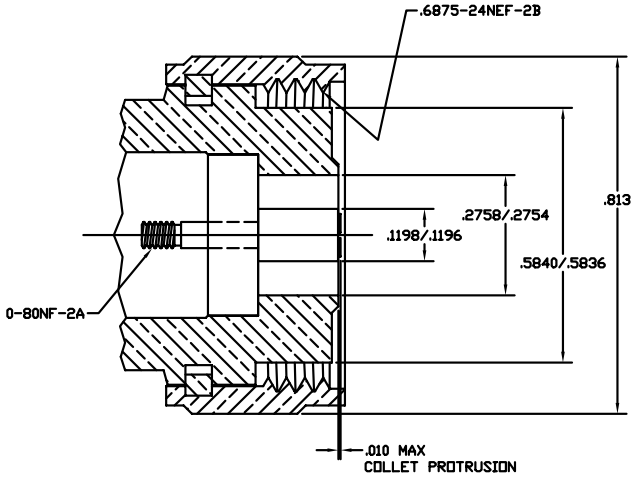
MATERIAL

Temperature range	Storage: -65°C to + 85°C Operating: -13°C to + 33°C
Humidity	20 to 80% RH
Pressure	590 to 780 mm Hg

PLUG

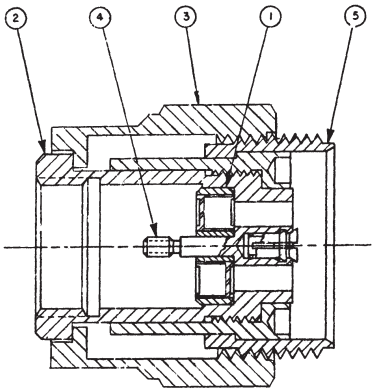


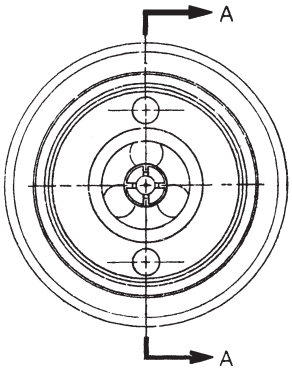
JACK



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Fig. 1



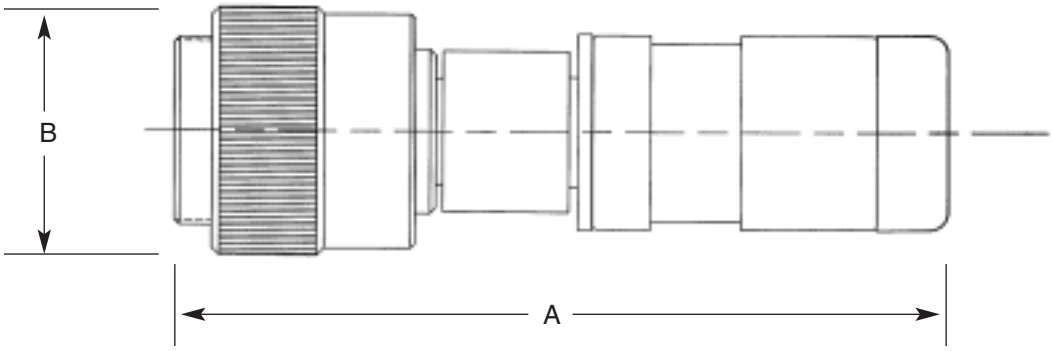




APC-7 for 7mm Airline
131-91050

APC-7 for RG-214/U Cable
131-91051

Fig. 3



APC-7 for RG-214/U Cable
131-91032

APC-7™ COAXIAL

The electrical length of the APC-7 connector is 1.76 cm

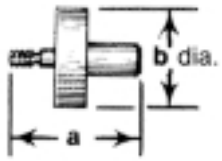
For Use With	Dimensions, Inches (mm) a □	Dimensions, Inches (mm) b	Connector Affixment	Max. VSWR for Mated Pair	CAI	Amphenol Number	Fig.
7mm Airline	.922 (23.4)	.865 (22.0)	Threaded Airline	1.003 + .002F (GHz)	C67	131-91050 ■	1
	.922 (23.4)	.865 (22.0)	Threaded Airline	1.003 + .002F (GHz)	C67	131-91051	2
RG-214/U Cable	2.594 (65.9)	.865 (22.0)	Braided Clamp	1.15 + 12.4 (GHz)	C67	131-91032	3

Part numbers listed are for one (1) connector except #131-91050 ■ □ Overall length with retainer in extended position

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APC-7, Components & Accessories

Fig. 1



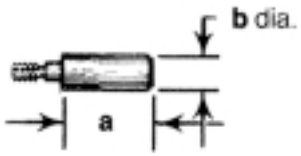
Bead Contact
Sub-Assembly
131-1052

Fig. 2



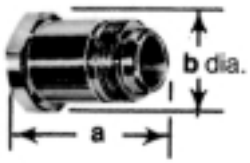
Bead
131-1053

Fig. 3



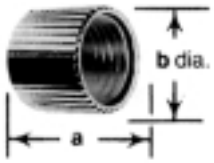
Contact
Sub-Assembly
131-1054

Fig. 4



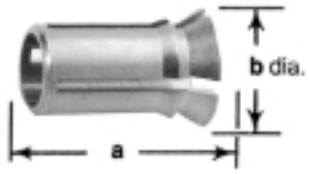
Body
131-122

Fig. 5



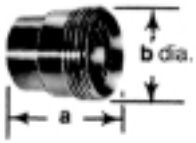
Optimal
Fluted Nut
131-126

Fig. 6



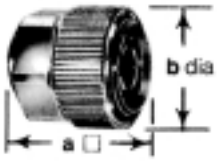
Collet
131-129

Fig. 7



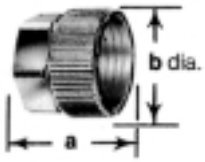
Retainer
Sub-Assembly
131-131

Fig. 8



Nut, Body & Assembly
Sub-Assembly
131-91057

Fig. 9



Coupling Nut
Standard Hex.
131-926

COMPONENTS AND SUB-ASSEMBLIES

Description	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	Amphenol Number	Fig.
Bead-contact sub-assembly	.461 (11.7)	.370 (9.4)	131-1052	1
Bead	.116 (3.0)	.370 (9.4)	131-1053	2
Contact (Collet & Collet holder) sub-assembly	.183 (4.6)	.120 (3.0)	131-1054	3
Body for 7mm Airline	.800 (20.3)	.576 (14.6)	131-122	4
Optional Fluted Coupling Nut	.702 (17.8)	.812 (20.6)	131-126	5
Collet	.149 (3.8)	.103 (2.6)	131-129	6
Retainer sub-assembly	.676 (17.2)	.687 (17.5)	131-131	7
Coupling Nut — Retainer body sub-assembly for 7mm Airline (131-91051 less bead-contact S/A)	.921 (23.4)	.865 (22.0)	131-91057	8
Standard Hex coupling nut	.702 (17.8)	.865 (22.0)	131-926	9

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APC-N Coaxial Connectors

Amphenol® APC-N connectors can be used interchangeably with the APC-7 on rigid air line or equipment and mates with all other Type N connectors.

VSWR for a mated pair of APC-N connectors is 1.06 through 12.4 GHz and 1.08 through 18 GHz.

Specifications

ELECTRICAL

	Test Requirement
Impedance	50 ohms ± 0.1 Ohms
Frequency range	0-18 GHz
VSWR	Connectors on airline 1.08 max. to 18 (GHz)
Insertion loss (in dB)	$< 3 \times 10^{-2} \sqrt{f\ (GHz)}$
RF Leakage	< signal inside coaxial line by ratio > 90 dB
Contact resistance	Inner: < 10 milliohms Outer: < 1.1 milliohms
Voltage rating:	1000 Vrms
Dielectric Withstanding Voltage (max.):	2500 Vrms
Max. power (watts @ sea level)	Above 1 MHz = 10kW/ $\sqrt{f\ (MHz)}$ up to 1 MHz = 10kW

MECHANICAL

Mating	$^{11}/_{16}$-24 threaded coupling. Mating dimensions are MIL-C-39012 Class II nominal with tighter tolerances. The APC-N mates with all existing Type N connectors including MIL-C-71

MATERIAL

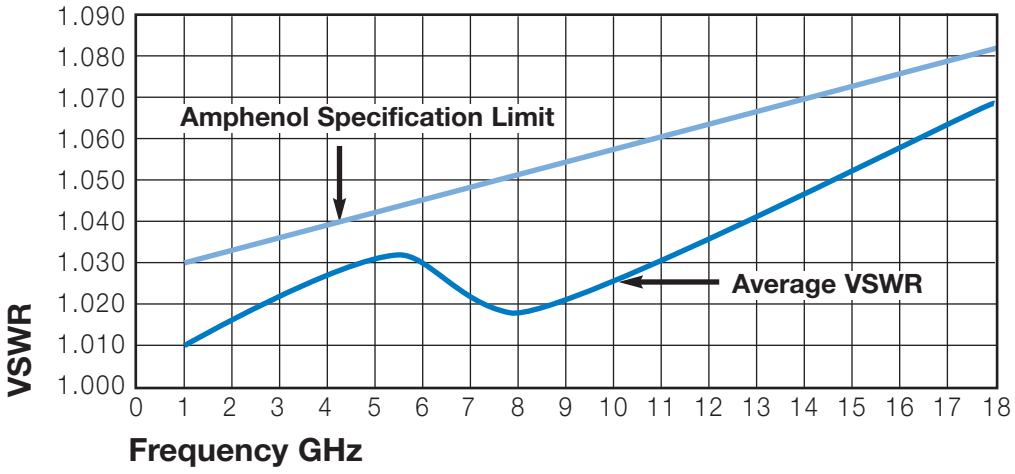
Body & coupling nut	Stainless steel
Center Contacts	Gold plated beryllium copper
Bead Assembly	Air-polyphenelene oxide composite
Clamping components	Nickel plated brass
Crimp ferrule	Nickel plated copper

ENVIRONMENTAL

Temperature range	Storage: -55°C to + 70°C Operating: -13°C to + 33°C
Humidity	20 to 80% RH
Pressure	590 to 780 mm Hg

* These characteristics are typical and may not apply to all connectors.

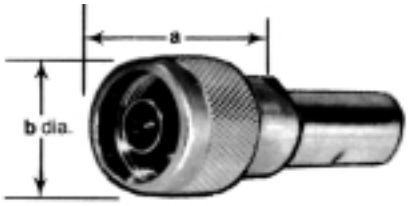
VSWR of a mated pair of APC-N connectors



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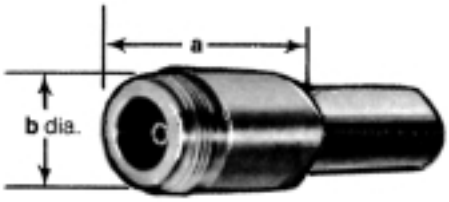
APC-N Plug, Jack

Fig. 1



Plug for 7mm Airline
131-10003

Fig. 2



Jack for 7mm Airline
131-10004

PLUG

For Use With	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	Connector Affixment	Max. VSWR for Mated Pair	CAI	Amphenol Number	Fig.
7mm Airline	1.141 (29.0)	.813 (20.6)	Threaded Airline	1.08 + 18 (GHz)	C67	131-10003	1

JACK

For Use With	Dimensions, Inches (mm) a	Dimensions, Inches (mm) b	Connector Affixment	Max. VSWR for Mated Pair	CAI	Amphenol Number	Fig.
7mm Airline	1.099 (27.9)	.620 (15.7)	Threaded Airline	1.08 + 18 (GHz)	C67	131-10004	2

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Notes

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