Amphenol[®]Connex

A New Kind of RF Solution

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Search Results for: Jack-To-Plug-To-Jack Tee Adapter

Please note: Images are for reference only

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Part Number: 132217 Family/Series: SMA Coaxial Connectors Product Type: MINIATURE IN-SERIES ADAPTERS Description: Jack-To-Plug-To-Jack Tee Adapter Cable: Non Applicable ** Cable Group: N/A Finish: Gold Insulation: Teflon Impedance: 50 ohms Crimp Tool: N/A

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						REV.	DATE	DESCRIPTION
						NC	12/08/97	INITIAL RELEASE
						A	09/24/06	UPDATE DRAWING FORMAT
			16.70 [.658]	/4-36UNS-2A			SOLDERIN	
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8				UNLESS OTHERWISE SPECIFIED DIMENSIONS AI IN MILLIMETERS, DIMENSIONS IN [] ARE IN INCHES AND FOR CUSTOMER REFERANCE ONL	RE APPROVALS	DATE		Amphonal Conney
7				UNLESS OTHERWISE SPECIFIED TOLERANCES FOR MILLIMETERS ARE:		/24/0	6	Amphenol Connex
6				0.5 - 8mm ± 0.20mm			PART DESC	
5				8 - 30mm ± 0.40mm 30 - 120mm ± 0.50mm				SMA "T" ADAPTER JACK-PLUG-JACK
4	CONTACT PIN (M)	BRASS	GOLD		ISSUED			
3	CONTACT PIN (F)	BER. COPPER	GOLD	$\begin{array}{c} 1 \\ 2 \\ 1 \\ 1 \\ \end{array}$	SHEET 1 OF 1			
2	INSULATOR BODY	TEFLON BRASS	NATURAL GOLD	.315 - 1.180 = ± 0.015"	-		PART NO.	132217
				1.100 - 4.724 - 1 0.020	CAD FILE			
	DESCRIPTION	MATERIAL	FINISH	QTY DO NOT SCALE DRAWING	C:/132/132217.	DWG	DWG. NO.	132217.DWG

Amphenol[®]Connex

A New Kind of RF Solution

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Our Produ	cts	SMA co	nnector	series				
7/16								
BNC			hefits Applicat		oly Instructions Adjustable Spec	s Dovorso Dol	arity Space	
D-Sub		Stanless Stee	<u>- Specs</u> <u>brass</u>	Specs Flase	Aujustable Spec	<u>s Reverse Foi</u>	any specs	
-ME		CN44 is an a		Miniatura			41	
MCX			~		ersion A and was Ω SMA connect		the	
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TNC Twin DNO					LS landing syst			
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Type N					IA Plug-to-Jack			
UHF					ustment for mici			e mated with all
					diameters rega	,		
Between-Serie	es Adapters				,			
Shielded Term	ninations	SMA is availa	able both in Sta	andard and I	Reverse Polarity	. Reverse pol	arity is a ke	eying system
Strain-Relief E	<u>Boots</u>							ce connectors do not
Tools								ng female contacts into
		plugs and ma reverse polar		to jacks. Oth	er manufacturer	s may use rev	verse threa	ding to accomplish
/iew All Produ	<u>icts</u>	reverse polar	ity keying.					
		SMA Coaxia	I Connectors					
		DIRECT SO	DER FOR SE	EMI-RIGID .0	47", .085" ANE	0.141" CABL	E	
		Straight Cable	Plug - Cable Cen	ter Contact				
		Straight Cable	Plug - Cable Cen	ter Contact				
		Straight Cable	Plug - Cable Cen	ter Contact				
		Straight Cable	Plug With Contac	<u>xt</u>				
		Straight Cable	Plug - With Conta	act And Torque	Nut_			
		Right Angle Ca	able Plug DC - 12	.4Ghz				
		Straight Cable	Jack					

Bulkhead Feedthrough Cable Jack - O-Ring Seal

Panel Mount Cable Jack - 4 Hole Square Flange

Panel Mount Cable Jack — 2 Hole Flange

CRIMP TERMINATIONS FOR FLEXIBLE CABLE Straight Crimp Plug - Standard Cable

Straight Crimp Plug - Miniature Cable

Right Angle Crimp Plug - Standard Cable

Right Angle Crimp Plug - Miniature Cable

Straight Crimp Jack - Standard Cable

Straight Crimp Jack - Miniature Cable

Bulkhead Crimp Jack — Standard Cable

Bulkhead Crimp Jack - Miniature Cable

Bulkhead Crimp Jack - O-Ring Seal - Standard Cable

Bulkhead Crimp Jack -O-Ring Seal- Miniature Cable

Right Angle Bulkhead Crimp Jack - Standard & Miniature Cable

Panel Crimp Jack - Standard Cable

Panel Crimp Jack - Miniature Cable

CLAMP TERMINATIONS FOR FLEXIBLE CABLE

Straight Clamp Plug - Standard Cable

Straight Clamp Plug - Miniature Cable

Straight Clamp Jack — Standard Cable

Straight Clamp Jack — Miniature Cable

Bulkhead Clamp Jack - Standard Cable

Plug-To-Jack Adapter - Right Angle Jack-To-Jack Adapter-Right Angle Jack-To-Jack-To-Jack Tee Adapter Jack-To-Plug-To-Jack Tee Adapter

ACCESSORIES Male Cap

Features & Benefits

- Broadband performance DC to 18 GHz with low reflection stainless steel construction and ¼ 36 threaded coupling offers high performance in a compact design.
- Low cost Commercial Grade (Brass SMA) available in nickel or gold plating which provides approximately 30% cost reduction with 250 mating cycles.
- Available for .085" and .141" diameter semi-rigid cables and all the standard flexible cables including double shielded RG-316.
- Phase Adjustable SMA connectors provide ease of mechanical screw adjustments, compared to the delays and expense of laborious cable-trimming.

Applications

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

Components

PC/LAN

Stainless Steel SMA Specifications

Impedance	50 Ω
Frequency Range	.141" & .085" semi-rigid cable: 0-18 GHz 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 Cables: 1,000 VRMS .085" & RG-316 Cables: 750 VRMS
VSWR	Straight connector, .141": 1.05 + .005 f (GHz) Straight connector, .RG-55: 1.15 + .011 f (GHz) Straight connector, RG-122: 1.15 + .02 f (GHz) Straight connector, RG-178: 1.20 + .025 f (GHz) Right angle connector, .141": 1.10 + .01 f (GHz) Right angle connector, .RG-55: 1.15 + .02 f (GHz) Right angle connector, RG-122: 1.15 + .03 f (GHz) Right angle connector, RG-178: 1.20 + .03 f (GHz)
Contact Resistance	Center contact: 2.0 m Ω Body: 2.0 m Ω Braid to body: 0.5 m Ω
Insulation Resistance	5,000 MΩ minimum
Insertion Loss	dB maximum = .03v[f(GHz)]
RF Leakage	-60 dB minimum
Mechanical	
Mating	.250-36 threaded coupling
Mating Torque	Minimum: 2 inch pounds (22 N.cm) Recommended: 7-10 inch pounds (80-110 N.cm) Maximum: 15 inch pounds (170 N.cm)
Coupling Nut Retention	Axial force: 100 inch pounds min. (300 N.cm) Torque: 15 inch pounds. min. (76 N.cm) Jacks: N/A
Connector Affixment to Cable	Crimp and solder types
Cable Affixment to Center Contact	Solder, except as noted
Contact Captivation	All types unless noted otherwise
Cable Retention (Crimp)	RG-58, 303 and .141": 60 lbs. minimum RG-55, 142, & 223: 80 lbs. minimum

Connector Durability	500 mating and unmating cycles @ 12 cycles per minute		
Material			
Bodies, Coupling Nuts, Other Metal Parts (except as noted)	Non-magnetic stainless steel style per QQ-S-764, Type 303		
Contacts	Beryllium copper per QQ-C-530, heat treated per MIL-H-7199		
Center Contact Plating	.00005" minimum 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		
Insulator	TFE fluorocarbon per ASTM D1457		
Gaskets	Silicone rubber, per MIL-R-5847 and ZZ-R-765 class IIB, grade 65-75.		
Lock washers	Stainless steel, internal tooth supplied with all bulkhead mounted connectors		
Crimp Ferrule	Seamless copper tubing alloy #122 (DHP), hard drawn to Rockwell 58-77 on 30-T scale per ASTM B75		
Environmental			
Temperature Range	- 65°C to +165°C		
Thermal Shock	MIL-STD-202 method 107 (test condition B) excep high temperatures @ + 200°C		
Vibration	MIL-STD-202 method 204 (test condition D)		
Shock	MIL-STD-202 method 213 (test condition I). No discontinuity permitted.		
Corrosion	MIL-STD-202 method 101 (test condition 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 condition C), no corona at 70,000 feet. .141" & RG-55: 250 VRMS .085" & RG-122: 190 VRMS		
Military Specifications			
MIL-C-39012 & MIL-C-83517 SMA Specificati Sheets			
Note: These characteristics are typical but may	y not apply to all connectors.		
Brass SMA Specifications			

Brass	SMA	Specifications
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Impedance	50 Ω
Frequency Range	.141" & .085" semi-rigid cable: 0-18 GHz 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 Cables: 1,000 VRMS .085" & RG-316 Cables: 750 VRMS
VSWR	Straight connector, .141": 1.05 + .005 f (GHz) Straight connector, .RG-174: 1.15 + .02 f (GHz) Straight connector, RG-58: 1.15 + .01 f (GHz) Straight connector, RG-178: 1.20 + .025 f (GHz)
Contact Resistance	Center contact: 2.0 m Ω Body: 2.0 m Ω Braid to body: 0.5 m Ω

nsulation Resistance	5,000 MΩ		
nsertion Loss	dB maximum = .06v[f(GHz)] Test frequency @ 6.0 GHZ		
RF Leakage	-90 dB minimum @ 2.3 GHz		
Mechanical			
Vlating	.250-36 threaded coupling		
Mating Torque	Minimum: 2 inch pounds (12 N.cm) Recommended: 7-10 inch pounds (80-110 N.cm) Maximum: 15 inch pounds (170 N.cm)		
Connector Durability	100 matings		
Material			
Bodies, Coupling Nuts, Other Metal Parts except as noted)	Brass per QQ-B-626		
Contacts	Male: Brass		
	Female: Beryllium copper, heat treated		
Center Contact Plating	.000030" minimum gold		
Plating (Other Metal Parts)	Standard .000010" gold or nickel plated		
nsulator	TFE fluorocarbon		
Gaskets	Silicone rubber		
Crimp Ferrule	Seamless copper tubing alloy		
Environmental			
Femperature Range	- 65°C to +165°C		
Fhermal Shock	MIL-STD-202 method 107 (test condition B) except high temperatures @ + 200°C		
/ibration	MIL-STD-202 method 204 (test condition D)		
Shock	MIL-STD-202 method 213 (test condition I). No discontinuity permitted.		
Corrosion	MIL-STD-202 method 101 (test condition B) 5% salt solution		
Moisture Resistance	MIL-STD-202 method 106, except step 7b (vibration) omitted, and high humidity measurements do not apply		
Neatherproofing	Crimp type: heat shrink tubing Solder type: silicone rubber gaskets		
Altitude	MIL-STD-202 method 105 (test condition C), no corona at 70,000 feet. .141" & RG-55: 250 VRMS .085" & RG-122: 190 VRMS		
Military Specifications			
	As applicable		

Phase Adjustable SMA Specifications

Electrical	
Impedance	50 Ω
Frequency Range	DC-18 GHz
Insertion Loss	dB maximum For adapter 901-508 = .1v[f(GHz)] For plug 901-509 = .08v[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)]° maximum
Phase Angle Change per Revolution of Adjustment Nut in Degrees	For adapter 901-508 and plug 901-509 = [0.636 x (GHz)]°
Voltage Rating	500 VRMS peak

Mechanical	
Mating	Mating face dimensions compatible with the mating requirements of MIL-C-39012/55 (Type SMA)
Connector Durability	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 condition I)
Vibration	MIL-STD-202 method 204 (test condition D)
Corrosion	MIL-STD-202 method 101 (test condition B)
Temperature Range	- 65°C to +165°C
Military Specifications	
MIL-C-39012 & MIL-C-83517 SMA Specification Sheets	As applicable

Note: These characteristics are typical but may not apply to all connectors.

Reverse Polarity SMA Specifications

mpedance	50 Ω
Frequency Range	Semi rigid 0 - 18 GHz
Voltage Rating	375 volts peak
Dielectric Withstanding Voltage	1,000 volts rms
VSWR	Straight connectors on .141" S/R: 1.05 + .005 f (GHz) Straight connectors on RG-174: 1.20 + .025 f (GHz)
Insertion Loss	.03 v[f (GHz)] dB maximum
Insulation Resistance	5,000 ΜΩ
RF Leakage	-60 dB minimum
Mechanical	` `
Mating	.250-36 threaded coupling
Cable Affixment	Crimp or solder types
Center Conductor	Solder
Cable Retention	60 - 80 lbs depending on cable
Material	
Center Contact	Beryllium copper, gold-plated
Crimp Ferrule	Copper tubing
Other Metal Parts	Non-magnetic passivated stainless steel or brass, gold or silver- plated
Insulators	TFE
Gaskets	Silicone rubber
Environmental	
Temperature Range	-65°C to +165°C
Moisture Resistance	MIL-STD-202, method 106, test condition B
Corrosion	MIL-STD-202, method 101, test condition B
Vibration	MIL-STD-202, method 204, test condition B