Amphenol Connex

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Search Results for: Jack-To-Jack Adapter-Right Angle

Please note: Images are for reference only



Part Number: 132274

Family/Series: SMA Coaxial Connectors Product Type: MINIATURE IN-SERIES

ADAPTERS

Description: Jack-To-Jack Adapter-Right

Angle

Cable: Non Applicable **

Cable Group: N/A Finish: Gold Insulation: Teflon Impedance: 50 ohms Crimp Tool: N/A

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7/16 **BNC**

D-Sub

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SMA connector series

Features & Benefits | Applications | Assembly Instructions Stainless Steel Specs | Brass Specs | Phase Adjustable Specs | Reverse Polarity Specs

SMA is an acronym for SubMiniature version A and was developed in the 1960's. It uses a threaded interface. 50 Ω SMA connectors are semiprecision, subminiature units that provide excellent electrical performance from DC to 18 GHz. These high-performance connectors are compact in size and mechanically have outstanding durability.

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

SMA is available both in Standard and Reverse Polarity. Reverse polarity is a keying system accomplished with a reverse interface, and ensures that reverse polarity interface connectors do not mate with standard interface connectors. Amphenol accomplishes this by inserting female contacts into plugs and male contacts into jacks. Other manufacturers may use reverse threading to accomplish reverse polarity keying.

ARGO

SMA Coaxial Connectors

DIRECT SOLDER FOR SEMI-RIGID .047". .085" AND .141" CABLE

Straight Cable Plug - Cable Center Contact

Straight Cable Plug - Cable Center Contact

Straight Cable Plug - Cable Center Contact

Straight Cable Plug With Contact

Straight Cable Plug - With Contact And Torque Nut

Right Angle Cable 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

■ Cable Assemblies

■ Components

Instrumentation

■ Mil/Aero

■ PC/LAN

■ Process Controls

■ Telecom

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 M Ω 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) except 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 feet141" & RG-55: 250 VRMS .085" & RG-122: 190 VRMS
Military Specifications	
MIL-C-39012 & MIL-C-83517 SMA Specificati Sheets	on As applicable
Note: These characteristics are typical but may	y not apply to all connectors.

Brass SMA Specifications

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

Insulation Resistance	5 000 MO
	5,000 ΜΩ
Insertion Loss	dB maximum = .06v[f(GHz)]
DEL	Test frequency @ 6.0 GHZ
RF Leakage	-90 dB minimum @ 2.3 GHz
Mechanical	
Mating	.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
Insulator	TFE fluorocarbon
Gaskets	Silicone rubber
Crimp Ferrule	Seamless copper tubing alloy
Environmental	
Temperature Range	- 65°C to +165°C
Thermal Shock	MIL-STD-202 method 107 (test condition B) except 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 feet141" & RG-55: 250 VRMS .085" & RG-122: 190 VRMS
Military Specifications	
MIL-C-39012 & MIL-C-83517 SMA Specification Sheets	As applicable
Note: These characteristics are typical but my	and the second state of the second state of

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

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	

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

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

Reverse Polarity SMA Specifications

Electrical		
Impedance	50 Ω	
Frequency Range	Semi rigid 0 - 18 GHz	
Voltage Rating	375 volts peak	
Dielectric Withstanding Volta	age 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	

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