

# SMA coaxial connectors

Amphenol® SMA connector designs include a wide range of configurations to meet popular envelope and electronic requirements for semi-rigid and flexible cable connectors, receptacles and adapters.

These semi-precision, subminiature units provide broadband 50Ω performance with low reflection DC-18 GHz (high performance types to 26.5 GHz) depending on cable. See specifications, page 22.

<p><b>Fig. 1</b> VSWR = 1.035+.005f(GHz) DC-18GHz</p> <p>SMA Plug - Solder to Body</p>		<p><b>Fig. 2</b> VSWR = 1.35 max. DC-26.5GHz</p> <p>SMA Plug - Solder to Body/ Press Fit Cable Center Conductor into Pre-Installed Center Contact/Passivated Nut</p>	
.086" (2.2mm) S/R RG-405 (M17/133)	<b>901-9201-2A</b> Gold Plated Nut [VSWR = 1.07 + .008f(GHz) DC - 18GHz]	.086" (2.2mm) S/R RG-405 (M17/133)	<b>901-9723</b>
.141" (3.6mm) S/R RG-402 (M17/130)	<b>901-9201-1A</b> Gold Plated Nut, without Contact & Insulator	.141" (3.6mm) S/R RG-402 (M17/130)	<b>901-9808</b>
	<b>901-9201-1ASF</b> Passivated Nut, without Contact & Insulator		
<p><b>Fig. 3</b> VSWR = 1.05+ .01f(GHz) DC-18GHz</p> <p>SMA Plug - Compression Crimp - Passivated Nut ‡</p>		<p><b>Fig. 4</b> VSWR = 1.35 max. DC-18GHz</p> <p>SMA Angle Plug - Solder to Body</p>	
.086" (2.2mm) S/R RG-405 (M17/133)	<b>901-613</b> [VSWR = 1.07 + .01f(GHz) DC - 18GHz]	.086" (2.2mm) S/R RG-405 (M17/133)	<b>901-9221-2A</b> Gold Plated Nut
.141" (3.6mm) S/R RG-402 (M17/130)	<b>901-606</b> without Contact & Insulator	.141" (3.6mm) S/R RG-402 (M17/130)	<b>901-9221-2ASF</b> Passivated Nut
	<b>901-614</b>		<b>901-9221-1A</b> Gold Plated Nut
			<b>901-9221-1ASF</b> Passivated Nut

## SMA PLUGS & ANGLE PLUGS FOR SEMI-RIGID CABLE • 50Ω impedance

Cable RG-Ů	Conn. Type	Cable Attachment			CAI	Pit.	Ins.	Construction Notes	Dim. a	Dim. c	Mil. M39012/	Amphenol Number	Fig.
		Outer	Inner										
<b>.086" (2.2mm) Semi-Rigid RG-405 (M17/133)</b>	Plug	Solder	Solder	C19	P37	D1	—	.438(11.1)	.090(2.3)	—	<b>901-9201-2A</b>	1	
		Solder	Press Fit	C17	P21	D1	Pre-Inst. Ctr Cont.	.400(10.2)	.090(2.3)	—	<b>901-9723</b>	2	
		Compression Crimp		C21	P22	D1	—	.589(15.0)	.090(2.3)	79-3207 79-3307	<b>901-613</b> <b>901-613-11*</b> <b>901-613-51</b>	3	
	Angle Plug	Solder	Solder	C20	P19 P21	D1	—	.680(17.3)	.090(2.3)	—	<b>901-9221-2A</b> <b>901-9221-2ASF</b>	4	
<b>.141" (3.6mm) Semi-Rigid RG-402 (M17/130)</b>	Plug	Solder	None	C17	P24 P25	—	Without Contact & Insulator	.445(11.3)	.145(3.7)	—	<b>901-9201-1A</b> <b>901-9201-1ASF</b>	1	
		Solder	Press fit	C17	P21	D1	Pre-Inst. Ctr Cont.	.438(11.1)	.145(3.7)	—	<b>901-9808</b>	2	
	Comp. Crimp	None	C21	P35	—	Without Contact & Insulator	.465(11.8)	.145(3.7)	92-3201 92-3301	<b>901-606</b> <b>901-606-11*</b> <b>901-606-51</b>	3		
		Solder	C21	P22	D1	—	.589(15.0)	.145(3.7)	79-3208 79-3308	<b>901-614</b> <b>901-614-11*</b> <b>901-614-51</b>	3		
	Angle Plug	Solder	Solder	C20	P19 P21	D1	—	.680(17.3)	.145(3.7)	—	<b>901-9221-1A</b> <b>901-9221-1ASF</b>	4	

• accommodates cable dia. ★ safety wire holes ‡ for removable crimp sleeve information, see page 90.