

## SMA COAXIAL CONNECTORS AND ADAPTORS

### ELECTRICAL SPECIFICATIONS

Impedance	50 ohm		
Frequency range	Semi-rigid cable for .141" or .085" O.D. copper jacket: 0–18 GHz ble: 0–12.4 GHz		
Voltage rating	RG–58, 141, 142, 223: 500v peak RG–174, 188, 316: 375V peak		
Dielectric withstanding voltage	.141" & RG–58 cable group: 1000V RMS .085" & RG–316 cable group: 750V RMS		
VSWR–straight Connectors *f in GHz	.141" semi-rigid cable group: 1.05 + .005f	RG–58 cable group: 1.15 + .01f	RG–178 cable group: 1.20 + .025f
	RG–174 cable group: 1.15 + .02f		
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 freq. GHz.. Test frequency @6.0 GHz		

MILITARY SPECIFICATIONS  
MIL–C–39012 & MIL–C–83517 SMA

### MATERIAL SPECIFICATIONS

PARTS NAME		MIL STANDARD	ECONOMIC TYPE
Body, coupling nut, other metal parts		Non-magnetic stainless steel per QQ–S–764 #303 finish: passivated	Brass per QQ–B–626 finish: nickel or gold per requirement
Contacts	Male	Brass per QQ–B–626	Brass per QQ–B–626
	Female	Beryllium copper per QQ–C–530 heat treated per MIL–H–7199	Beryllium copper per QQ–C–530 heat treated per MIL–H–7199
		Finish: .00005" min gold plated per MIL–G–45204 type 1, Grade C.	Finish: .00005" min gold plated per MIL–G–45204 type 1, Grade C.
Insulator		PTFE	PTFE
Gasket		Silicone rubber	Silicone rubber
Crimp ferrule		Seamless copper tubing alloy	Seamless copper tubing alloy



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