

# Specifications for UHF Connectors

UHF style connectors are inexpensive, general purpose connectors with non-constant impedance for use at 500 volts or less, and for use with low frequencies to 200Mhz for best performance, or to 500MHz but with diminished performance. These coaxial connectors are widely used in citizens band communications, CCTV, public address systems, mobile radio equipment, civil defense, ship to shore communications, antenna connections, landing systems, and ground control apparatus. UHF connectors use a 5/8-24 threaded coupling. They are available in a wide selection of sizes to fit various cable sizes.

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MATERIALS			
Connector Parts	Material		
Connector Body and Parts	Brass		
Male Contact Pin	Brass		
Outer Contact	Brass		
Crimp Ferrule	Annealed Copper		
Insulators,	Delrin, Teflon		
Plating	Nickel		

ELECTRICAL			
Requirement	Performance		
Impedance	Non Constant		
Frequency Range	0-500MHz		
VSWR	1.25 Max.		
Working Voltage (At Sea level)	750V rms		
Insulation Resistance	5000 Megohm Min.		
Contact Resistance	5mW Max.		
Test Voltage	2000V rms		

MECHANICAL & ENVIRONMENTAL				
Requirement	Performance			
Durability	500 Matings			
	RG58 - 60 Lb. Min.			
Cable Retention (Cable Types)	RG59 - 75 Lb. Min.			
	RG8, 213 - 150 Lb. Min.			
Coupling Nut	45 lbs. Maximum			
Tamparatura Banga	Delrin: -55 to +85°C			
Temperature Range	Teflon: -55 to +200°C			

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#### **UHF** Connectors

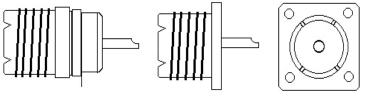
## **Crimp Plugs**

UHF cable plugs are available in two-piece crimp and older versions. Several cable diameters are facilitated with these connectors for applicable applications. A reducing adapter is used for smaller cable sizes when using the solder types.

Part Number	POAT	Description	RG/U Cable	Fig. No.		
710A205F	V	Crimp Plug	58	106		
710A205G	V	Crimp Plug	59, 62	106		
710A908B	V	Twist/Solder Plug, PL259	8, 213	107		
770A508F	N	Reducing Adapter, UG175/U	58	108	Fig. 106	Fig. 107
770A508G	N	Reducing Adapter, UG176/U	58	108		
☑ RoHS compli	ant REC	QUEST QUOTE REQUE	ST			
DRAWING					Fig. 108	

#### **Jacks**

Two panel jack style are available as standard items. These panel jacks will facilitate any cable size by soldering the center conductor to the connector's solder-cup contact.



Part Number	POAK			
726A508	N	Bulkhead Jack	Any	109
727A508	V	Panel Jack, SO239 Type	Any	110
	Number 726A508	Number	Number Bescription  726A508 Bulkhead Jack	Number     Description     Cable       726A508     Bulkhead Jack     Any

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Fig. 109 Fig. 110

## Adapters

Standard configurations of adapters are machined brass with attractive nickel plating. All contacts are gold plated brass (males) and phosphor bronze (females).

Part Number	ROA'S	Description	Fig. No.
731A505	N	Male/Male	111

732A508 735A504 743A508 745A508 751A505	Female/Female Inline Female/Female, Bulkhead F/M/F "T" Adapter F/F/F "T" Adapter F/M Right Angle Adapter	114	
RoHS compliance DRAWING	ant REQUEST QUOTE REQUI	Fig. 111	Fig. 112
			Fig. 113
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	Fig. 114	Fig. 115	Fig. 116