

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 cables sizes.

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	5mΩ Max.
Test Voltage	2000V r.m.s.

MECHANICAL & ENVIRONMENTAL

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

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	Description	RG/U Cable	Fig. No.
710A205F	Crimp Plug	58	106
710A205G	Crimp Plug	59, 62	106
710A908B	Twist/Solder Plug, PL259	8, 213	107
770A508F	Reducing Adapter, UG175/U	58	108
770A508G	Reducing Adapter, UG176/U	59, 62	108

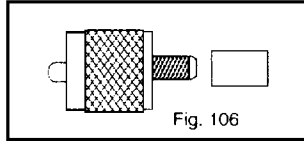


Fig. 106

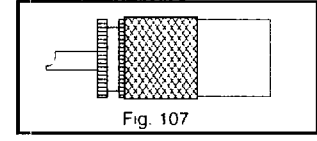


Fig. 107

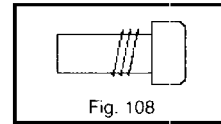


Fig. 108

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.

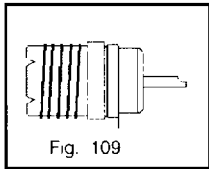


Fig. 109

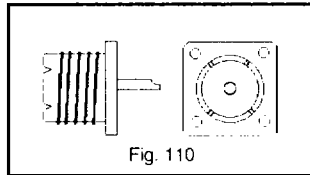


Fig. 110

Part Number	Description	RG/U Cable	Fig. No.
726A508	Bulkhead Jack	Any	109
727A508	Panel Jack, SO239 Type	Any	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	Description	Fig. No.
731A505	Male/Male	111
732A508	Female/Female Inline	112
735A504	Female/Female, Bulkhead	113
743A505	F/M/F "T" Adapter	114
745A505	F/F/F "T" Adapter	115
751A505	F/M Right Angle Adapter	116

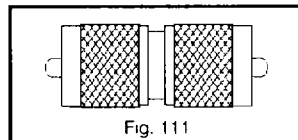


Fig. 111

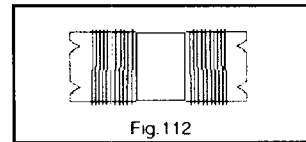


Fig. 112

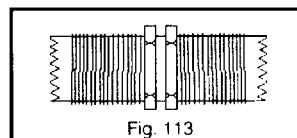


Fig. 113

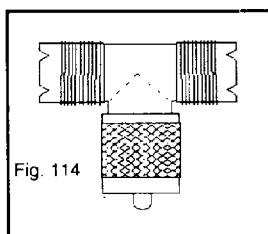


Fig. 114

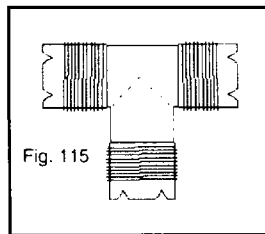


Fig. 115

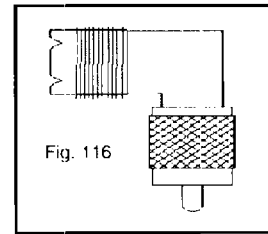


Fig. 116