

Description

Amphenol C connectors are medium size and weatherproof. Coupling is two-stud bayonet lock. C connectors provide constant 50 ohm impedance. They may be used with 75 ohm cable, at lower frequencies (below 300 MHz) where no serious mismatch is introduced.

Amphenol HN connectors are medium size weatherproof units designed for high voltage applications. HN connectors feature captivated contact design which prevents contact recession under temperature extremes and mechanical stresses. Coupling is 3/4-20 threaded.

Amphenol SC connectors are medium size, constant 50 ohm impedance units manufactured to meet MIL-C-39012 category D, Specification sheets 35 through 43, meeting all of the mechanical and electrical requirements of the Limited Co-ordination Specification (LC Spec.) as generated by the U.S. Air Force.

Connector mating is a .687-24 UNEF screw thread.

Features/Benefits

- C — two-stud bayonet lock allows quick & easy coupling.
- HN — 3/4-20 thread withstands rugged applications.
- SC — MIL qualified per M39012 provides consistent performance and dependability.

Applications

- Instrumentation
- Cable Assemblies
- Components
- MIL Aerospace
- Airframe
- Test & Measurement



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ELECTRICAL

Impedance	50 Ohm constant
Frequency range	0-11 GHz, 1500 V typ.
Voltage Rating 1500 x .707 (1060 rms)	1500 volts peak, std.
Dielectric Withstanding	3000 volts RMS
Voltage VSWR	1500 volt type; 1.35 max. to 11 GHz max. 2 Amps current @ 100 MHz @ 1500 volts peak

ENVIRONMENTAL

Temperature range	-65°C to +165°C
Weatherproof	Except as noted, all C series connectors are weatherproof
Hermetic Seals	Pass helium leak test of 2×10^{-8} c/sec
Pressurized	Compression seal

MECHANICAL

Mating	2-stud Bayonet lock
Cable affixment	Braid clamp

MATERIAL

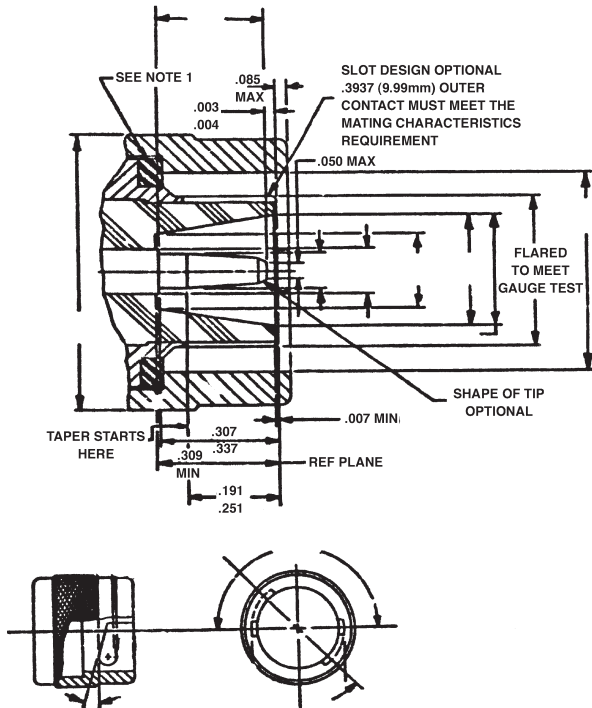
Contacts	Male: brass Female & Outer beryllium copper. Silver plated except M39012 gold.
Other metal parts	Brass: ASTROplate® finish except M39012 silver
Insulators	TFE, glass-TFE (hermetically sealed)
Weatherproof gaskets	Silicone rubber

MILITARY SPECIFICATIONS

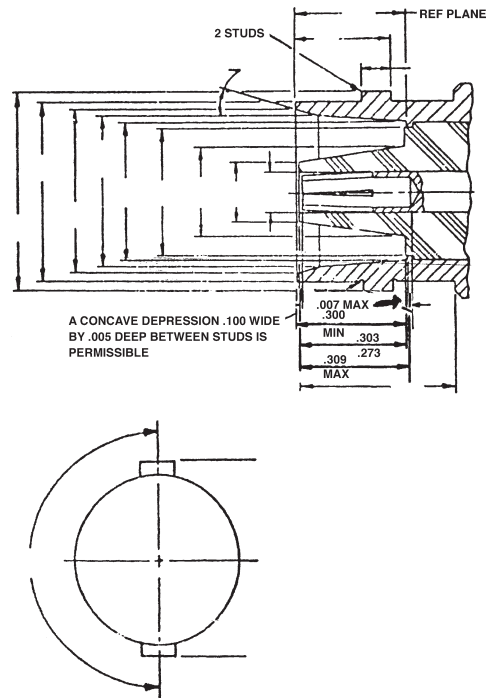
MIL-C-39012 & MIL-A-55339	where applicable
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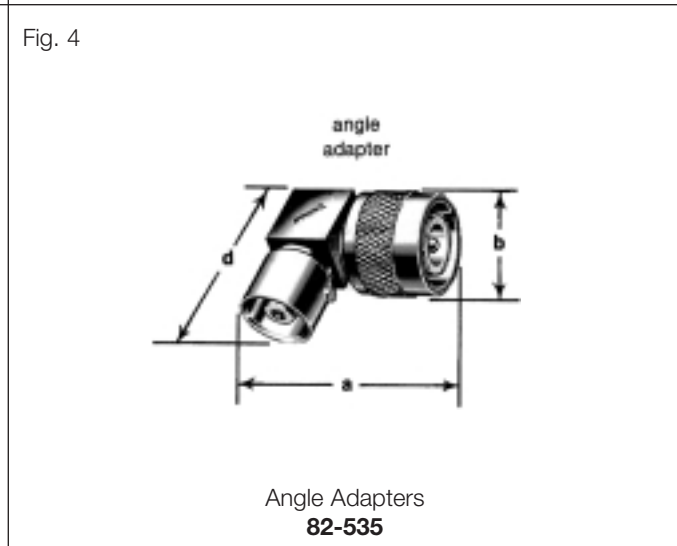
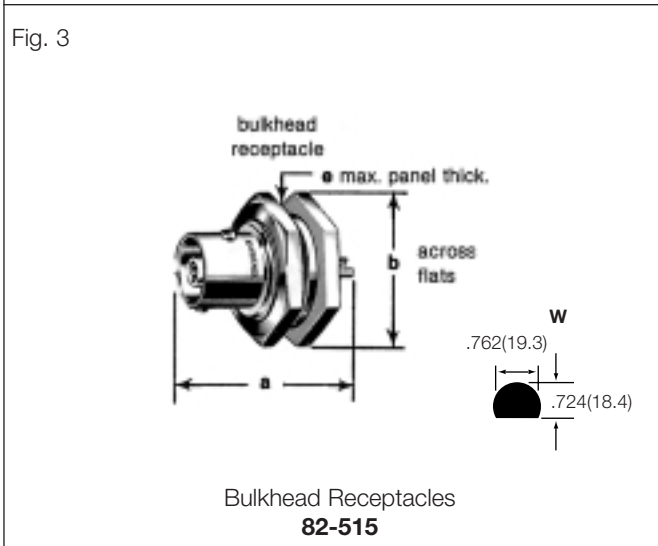
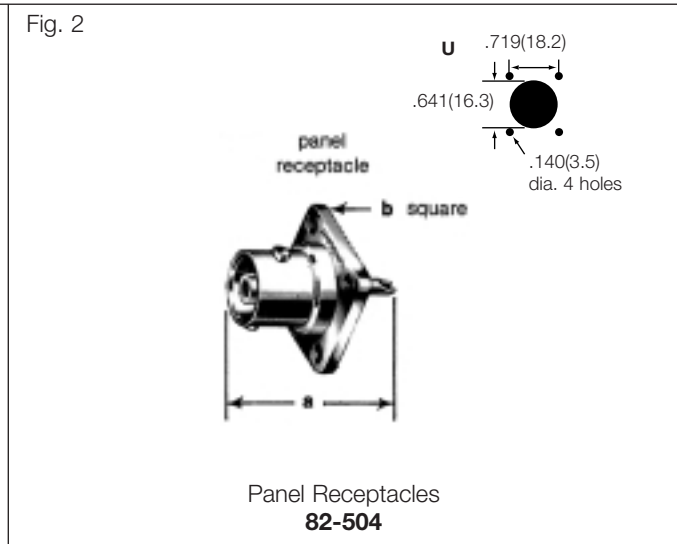
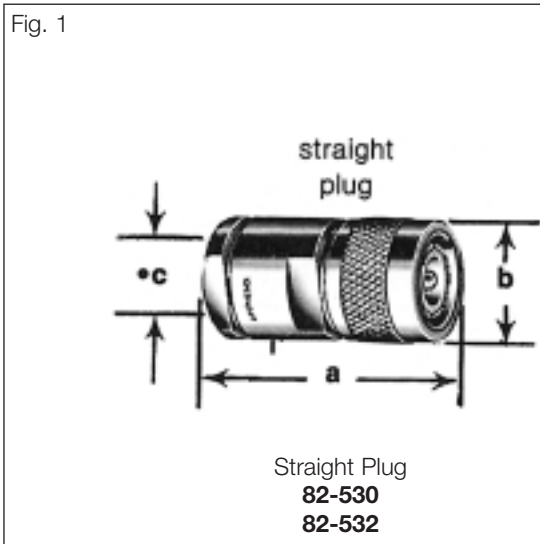
NOTE: These characteristics are typical and may not apply to all connectors.

PLUG



JACK





STRAIGHT PLUGS

Cable RG-/U	Dimensions, inches (millimeters)					Construction Notes			Military Number	Amphenol Number	Fig
	a	b	c	d	e	CAI	Pit.	Ins.			
8, 9, 87A, 213, 214, 225	1.48 (37.7)	.750 (19.1)	.444 (11.3)	—	—	C16	P1	D1	UG-573A	82-530	1
	1.75 (44.5)	.750 (19.1)	.444 (11.3)	—	—	C16	P1	D1	UG-628A (4000 V Peak)	82-532	1

PANEL RECEPTACLES

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	d	e		CAI	Pit.	Ins.			
#6-32 tapped flange holes/female contacts	1.09 (27.8)	1.00 (25.4)	—	—	U	—	P1	D1	UG-568	82-504	2
4000 volts peak	1.31 (33.3)	1.00 (25.4)	—	1.56 (4.0)	W	—	P1	D1	UG-634	82-515	3

ANGLE ADAPTER

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	d	e		CAI	Pit.	Ins.			
Jack-plug/non-weatherproof	1.25 (31.8)	.766 (19.4)	1.25 (31.8)	—	—	—	P4	D1	UG-567A	82-535	4