



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.

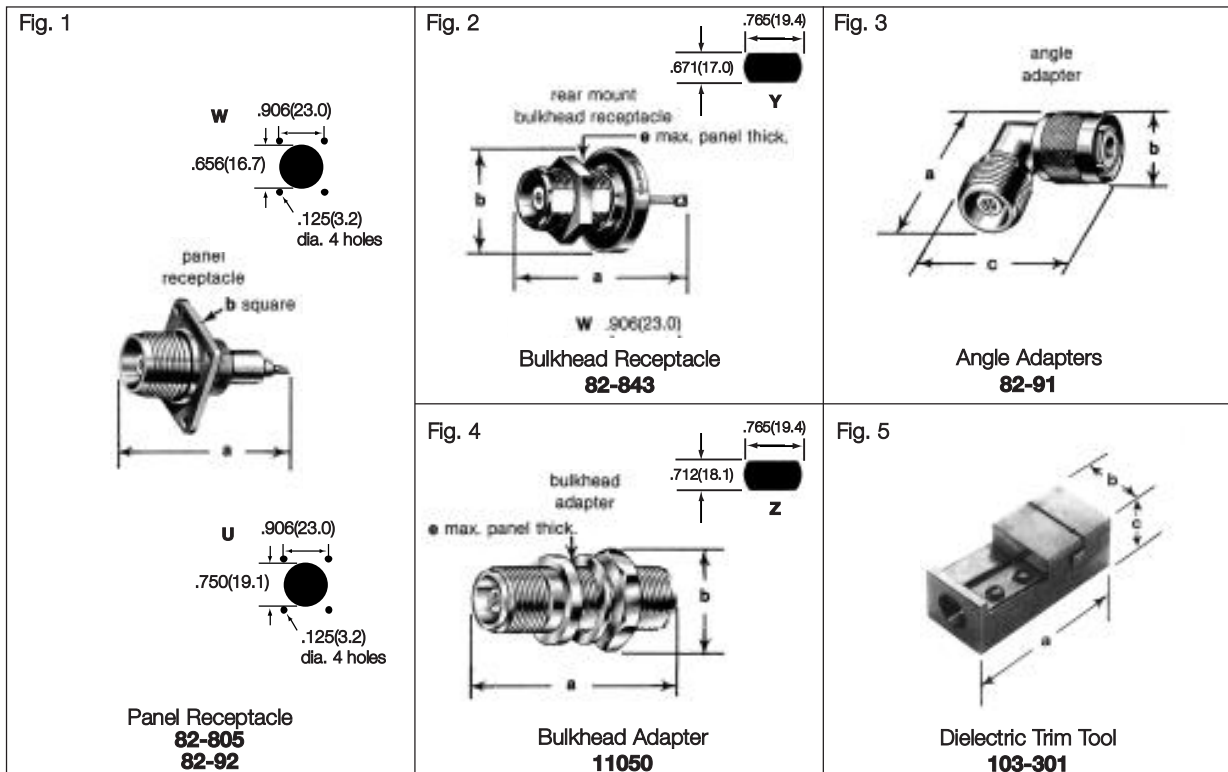
Applications

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

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PANEL RECEPTACLES

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	c	e		CAI	Pit.	Ins.			
Solder Cup Terminal	1.88 (47.6)	1.19 (30.2)	—	—	W	—	P1	D1	UG-560	82-805	1
Solder Cup Terminal (Copolymer Styrene Ins.)	1.53 (38.9)	1.19 (30.2)	—	—	U	—	P1	D6	UG-496	82-92	1

BULKHEAD RECEPTACLES

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	c	e		CAI	Pit.	Ins.			
Rear Mount/Spade Terminal	1.77 (44.8)	1.25 (31.8)	—	.187 (4.7)	Y	—	P1	D1	—	82-843	2

ANGLE ADAPTERS

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	c	e		CAI	Pit.	Ins.			
Jack-Plug (Copolymer Styrene Ins.)	1.53 (38.9)	.875 (22.2)	1.46 (37.3)	—	—	—	P1	D6	UG-212A	82-91	3

BULKHEAD ADAPTERS

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	c	e		CAI	Pit.	Ins.			
Jack-Jack	1.97 (50.0)	1.00 (25.4)	—	.343 (8.7)	Z	—	P1	D1	UG-1019	11050	4

DIELECTRIC TRIM TOOL

Description	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
	a	b	c	e		CAI	Pit.	Ins.			
Dielectric Trim Tool	1.47 (37.3)	.625 (15.9)	.500 (12.7)	—	—	—			MX-103/U	103-301	5

ELECTRICAL

Impedance	50 Ohm constant
Frequency range	0-11 GHz, 1500 V typ.
Voltage Rating	1000 volts peakd
Dielectric Withstanding Voltage	3000 volts RMS
VSWR (MIL-C-39012 Cable Connectors)	1.35 max. 0-11 GHz
Other (MIL-C-39012 Cable Connectors)	Contact Resistance Center contact 1.0 milliohm Outer contact .15 milliohm Braid to Body .05 milliohm RF Leakage: — 90 dB minimum at 3 GHz Insertion loss: .15 dB maximum at 9 GHz Insulation resistance: 5000 megohms. (min.)

NOTE: 13 lb. push required to captivate contact into connector body.

ENVIRONMENTAL

Temperature range	TFE -65°C to +165°C -65°C to +165°C
Shock	MIL-Std-202 method 213
Vibration	MIL-Std-202 method 204 (test condition B)
Moisture Resistance	MIL-Std-202 method 106
Corrosion	MIL-Std-202 method 101 (test condition B)
Temperature cycling	MIL-Std-202 method 102 (test condition C)

MECHANICAL

Mating	11/16-24 UNEF screw threads. Plug coupling nut has safety wire holes.
Cable Affixment	Crimp-crimp: hex-crimp jacket, braid, center contact per MIL-C-39012 Category D.
Contact	Captivated
Cable Retention	.155" to .189" dia. cable: 50 lbs. min. .190" to .229" dia. cable: 60 lbs. min. .230" to .249" dia. cable: 75 lbs. min. .250" dia. and larger: 90 lbs. min.

MATERIAL

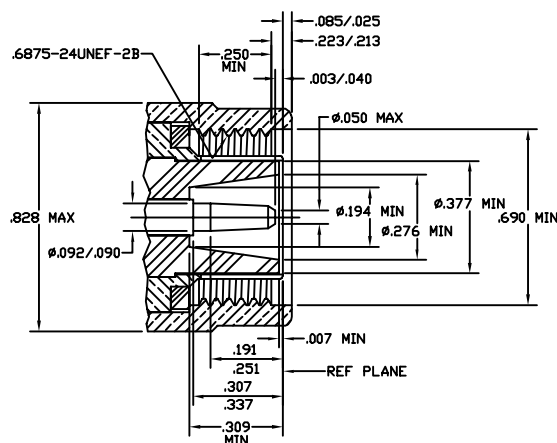
Contacts	Male: brass; female; beryllium copper or phosphor bronze, gold plated
Insulators	TFE
Crimp Ferrule	Copper
Other metal parts	Brass

MILITARY SPECIFICATIONS

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

PLUG



JACK

