

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



C

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HN

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SC

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ELECTRICAL

Impedance	50 Ohms
Frequency range	0-4 GHz
Voltage Rating	1500 volts peak, std.
Dielectric Withstanding Voltage	5000 volts RMS

ENVIRONMENTAL

Temperature range	TFE -65°C to +165°C Copolymer of styrene: -55°C to +85°C
Weatherproof	All HN Series are weatherproof
Hermetic Seals	Pass helium leak test of 2×10^{-8} cc/sec
Pressurized	Compression Seal

MECHANICAL

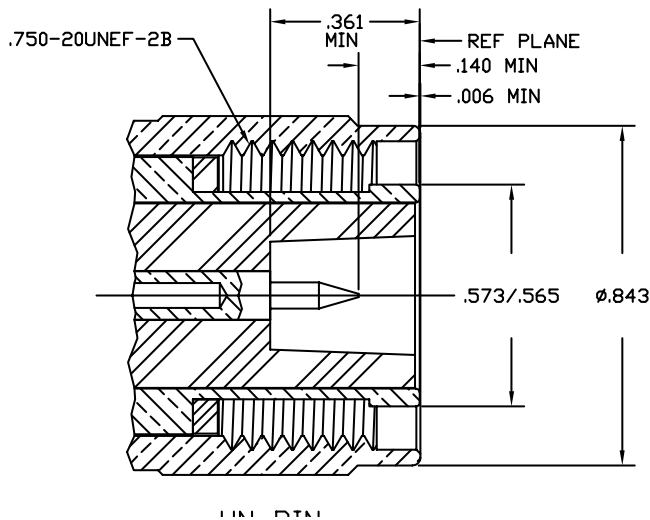
Mating	3/4-20 threaded coupling
Cable affixment	Screw-thread nut and braid clamp

MATERIAL

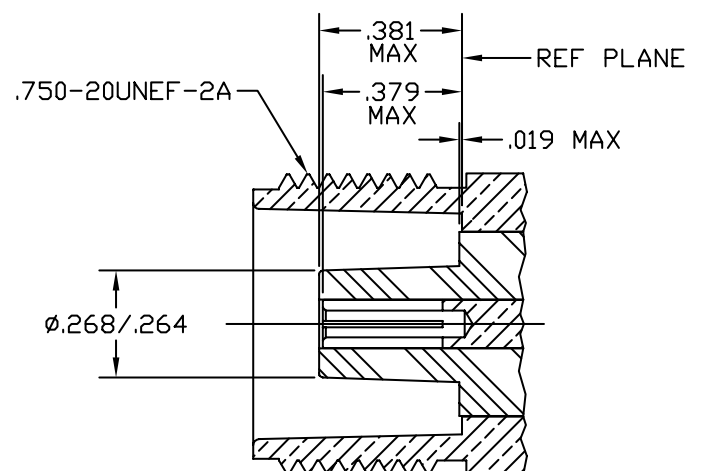
Contacts	Male: brass Female: beryllium copper. Outer: brass Finish: silver or gold
Other metal parts	Brass: ASTROplate® finish
Insulators	TFE, glass-TFE Copolymer of styrene: (hermetically sealed)
Weatherproof gaskets	Silicone rubber; Synthetic rubber

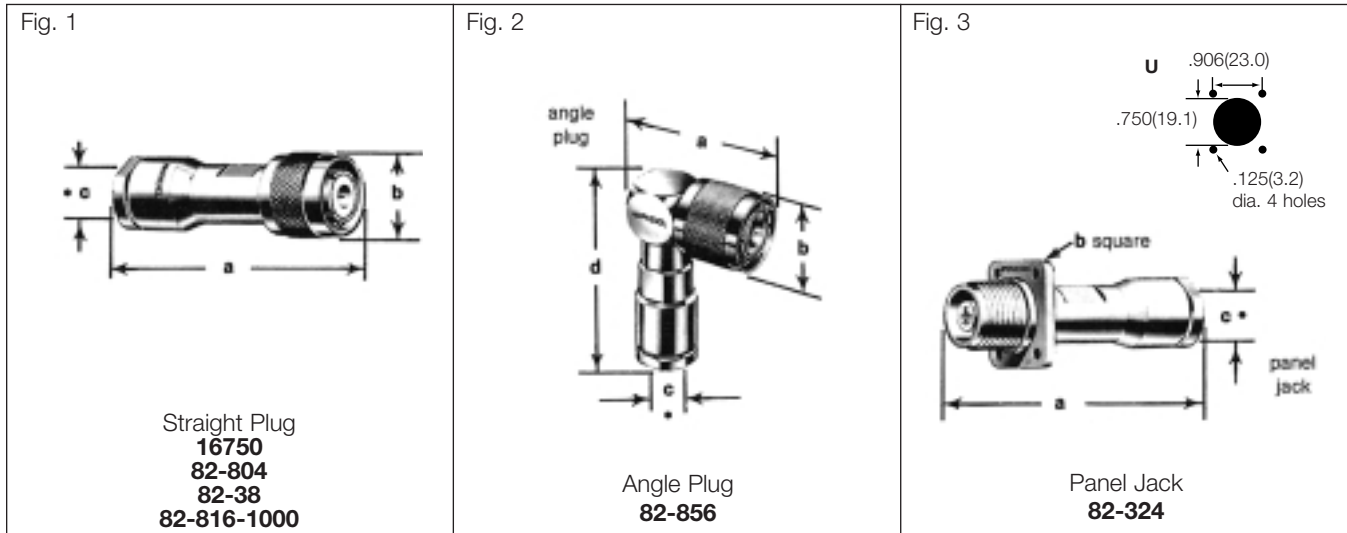
NOTE: These characteristics are typical and may not apply to all connectors.

PLUG



JACK





STRAIGHT PLUGS

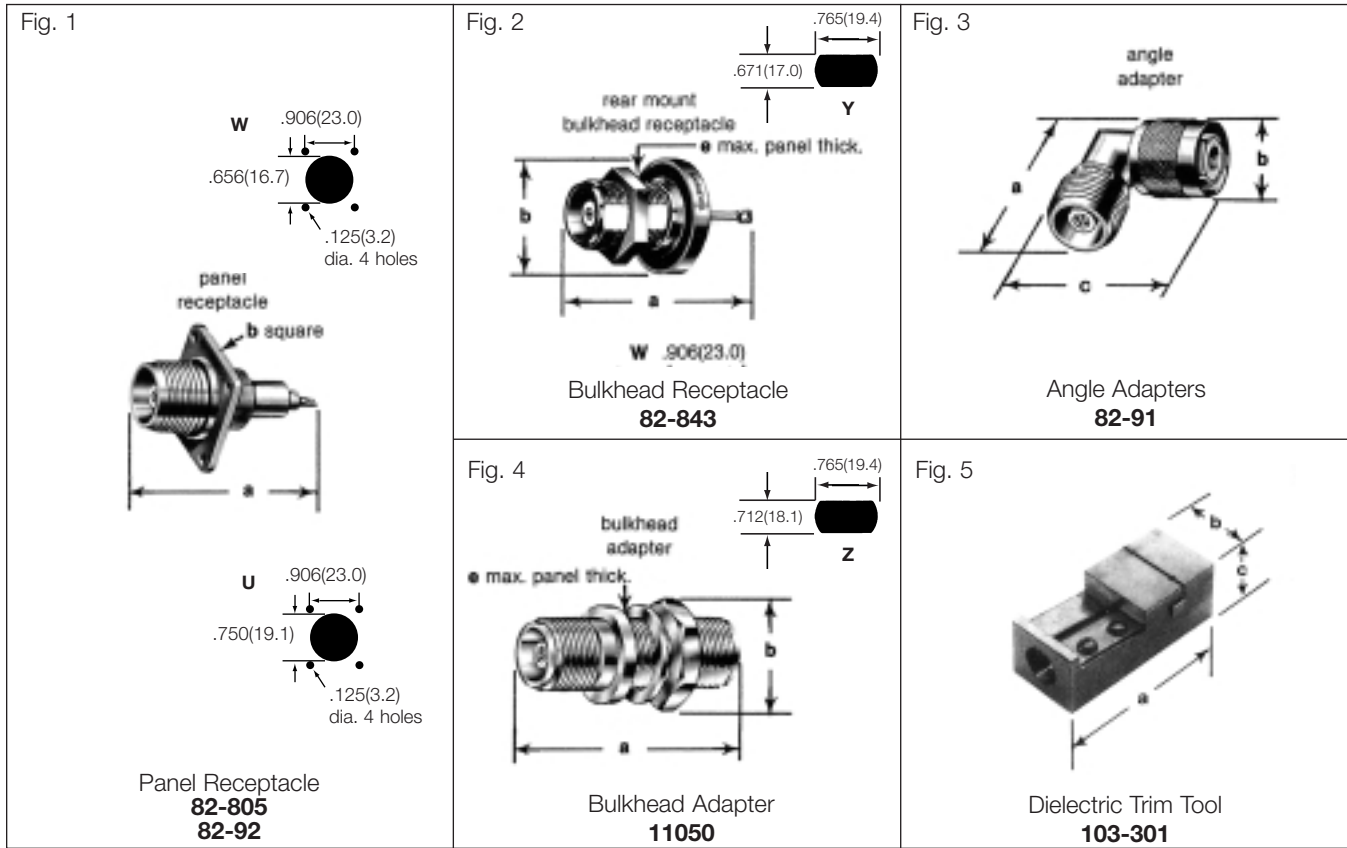
Description	Cable Termination	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
		a	b	c	d		CAI	Pit.	Ins.			
58, 141, 142	TYP-Clamp	1.81 (46.0)	.844 (21.4)	.214 (5.4)	—	—	C18	P1	D1	—	16750	1
8, 9, 213, 214	TYP-Clamp	2.38 (60.3)	.875 (22.2)	.444 (11.3)	—	—	C20	P1	D6	UG-59A	82-38	1
54A	TYP-Clamp	1.81 (46.0)	.875 (22.2)	.257 (6.5)	—	—	C18	P4	D6	—	82-816-1000	1
8, 9, 87A, 213, 214, 225	TYP-Clamp	2.38 (60.3)	.875 (22.2)	.444 (11.3)	—	—	C17	P1	D1	UG-59B	82-804	1

ANGLE PLUG

Description	Cable Termination	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
		a	b	c	d		CAI	Pit.	Ins.			
8, 9, 87A, 213, 214, 225	TYP-Clamp	1.50 (38.1)	.875 (22.2)	.444 (11.3)	2.31 (58.7)	—	C17	P1	D1	—	82-856	2

PANEL JACKS

Description	Cable Termination	Dimensions, in. (mm)				MTG Hole	Construction Notes			Military Number	Amphenol Number	Fig
		a	b	c	d		CAI	Pit.	Ins.			
8, 9, 87A, 213, 214, 225	C.C.-Clamp	2.94 (74.6)	1.19 (30.2)	.444 (11.3)	—	U	C17	P1	D1	UG-1215	82-324	3



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