

HN

## coaxial connectors

## general information

## description

Series HN connectors are medium-sized, 50 ohm constant impedance, high voltage, threaded coupling types. In addition to Regular and Improved constructions (the latter with metal-to-metal braid clamping mechanism offers improved electrical and mechanical performance), Amphenol's patented Captivated Contact<sup>■</sup> design is available in an Improved Plug, Cable Jack and Panel Jack. Designed to prevent possible contact recession under temperature extremes and mechanical stresses, Captivated Contacts are fixed within the connector body by front and rear contact insulators that butt against metal body parts. Connectors with Captivated Contacts are highly recommended for any application where environmental extremes are encountered.

Amphenol Series HN connectors meet applicable sections of MIL-C-3643.

For best cable assembly performance, Amphenol coaxial cable should be specified for use with Series HN connectors.

With Amphenol adapter kit 82-887, Series HN connectors can be used with metal jacketed (Amphenol ALJAK or CUJAK) cables.

■ U. S. Patent 2,870,420

## characteristics

## electrical

impedance	50 ohm constant; may be used with 70 ohm cable when impedance matching is not critical
frequency range	0-10 Gc
voltage rating	1,500 volts peak
high potential	5,000 volts rms

## environmental

thermal limits	Teflon insulation: -67°F to 390°F Rexolite insulation: -67°F to 185°F
weatherproof	all HN Series are weatherproof
hermetic seals	pass Helium leak test of $2 \times 10^{-8}$ 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
other metal parts	brass
plating	.0002" silver min
insulators	Teflon, Rexolite
weatherproof gaskets	Synthetic rubber; silicone rubber