

150 Dodd Street SE Marietta, GA. 30060

 Phone: 770-973-6251
 Email: info@mgs4u.com

 Fax: 678-401-3854
 Website: www.mgs4u.com

HN male Clamp Connector for .405 Coax



Technical Data Sheet

This HN male Clamp Connector is one of several thousand RF products available from Max-Gain Systems, Inc.

This connector is made from a Solid Brass body that is precision machined and plated with Nickel for superior performance and value. This HN male Clamp Connector has a PTFE dielectric and a gold plated brass center pin. The HN Male interface contains a gasket, for shock-/vibration-resistant and waterproof connections and additional dielectric around the pin connection area to handle increased power.

Material Specifications

HN male, Clamp, Cable End Connector for .405 Coax Part Number 8305-HN-CN-400

Description	Material	Plating
Clamp Nut	Brass	Nickel
Washer	Brass	Nickel
Gasket	Silicone	Red
Clamp	Brass	Nickel
Washer	Silicone	Nickel
Insulator	PTFE	White
Pin	Brass	White
Body	Brass	Nickel
Insulator	PTFE	White
Holding Ring	Phosphor Bronze	
Gasket	Silicone	Red
Inner Contact	Brass	Nickel
Shell	Brass	Nickel

Mechanical Specifications

Size	Dimension
Length	1.7 in (43 mm)
Width	0.87 in (22 mm)
Height	0.87 in (22 mm)
Weight	2.2 oz (64 g)

Electrical Specifications

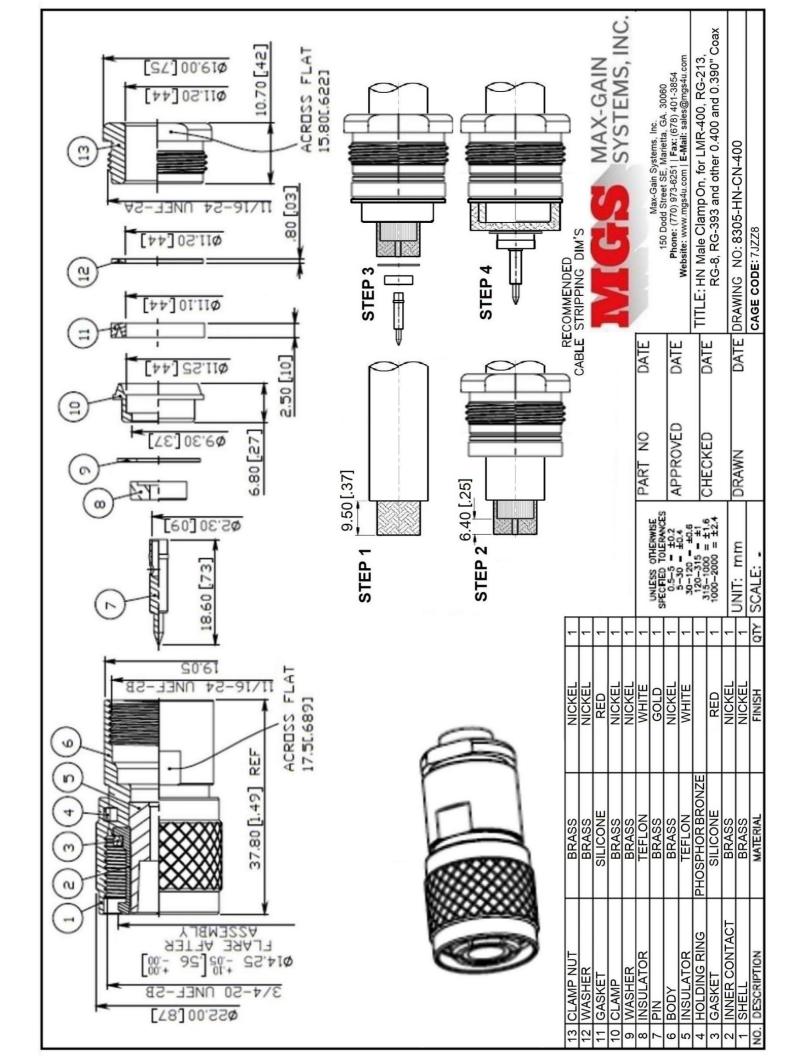
Criteria	Dimension
Impedance	50 OHMS
Insulation Resistance	5000 MOHMS
Operating Frequency	6 GHz
Dielectric Withstanding Voltage	5000 Vrms
VSWR Typical	1.50:1
Insertion Loss Typical	.06 (root) Freq. GHz
Voltage Rating	1500 Volts
Interface	MIL-STD-348
Vibration	MIL-STD-202 METHOD 204, CONDITION A
Corrosion	MIL-STD-202 METHOD 101, CONDITION B

Environmental Specifications

Temperature	Spec
Operating Range	-65 to +165 deg C

Compliance Certifications (see product page for current documentation)

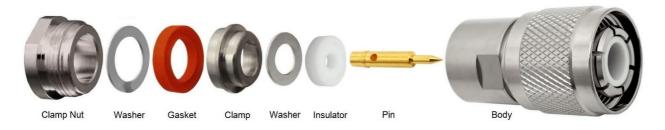
Availability Click the following link (or enter part number in the "SEARCH" bar at the top of any page of the website) to obtain additional part information including price, inventory and certifications: https://mgs4u.com/product/hn-male-clamp-connector-for-rg-8-rg-11-rg-83-rg-213-rg-393-lmr-400-and-other-0-405-inch-od-coax-8305-hn-cn-400/



Installation Guide

We will begin by installing the HN male clamp connector on a piece of LMR-400. This process is the same for all the other types of cable with an outer jacket OD of 0.405. These connectors fit on a wide range of coax types including, but not limited to: RG-8, RG-11, RG-83, RG-213, RG-393, LMR-400, Belden 8237, Belden 8267, Belden 9011, and Belden 9913.

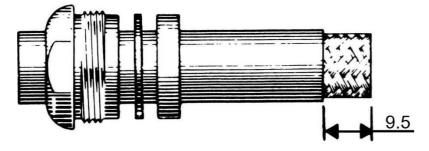
Identify All Components:



Coax Stripping:

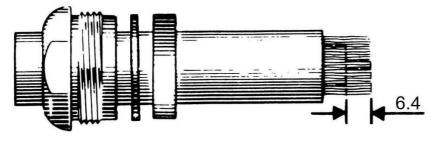
First cut your cable to the desired length and place the "clamp nut", "washer" and "gasket" then strip the black jacket back approximately 0.37 inches / 9.5 mm.

Step 1



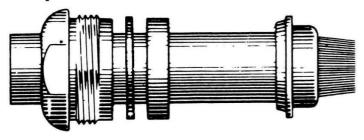
Comb out the braid and fan it out to you can get to the dielectric. Trim back the dielectric 0.25 inches / 6.4 mm.

Step 2



Pull the braid wires forward and taper them toward the center conductor. Place the clamp nut onto the coax by threading the braid through the center and push the clamp nut against the jacket as shown.

Step 3

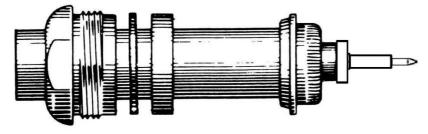


Fold back the braid wires as shown below and trim the braid so it does not go over flange of the clamp nut. Solder the center pin onto the center conductor of the coax.

Solder-On Method

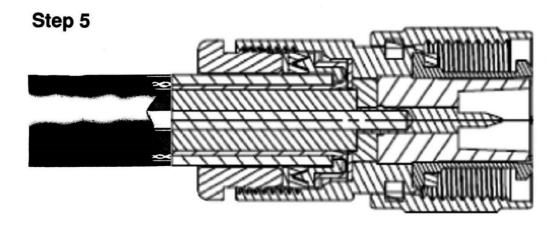
Make sure the solder hole is facing up. Touch the soldering iron to the underside of the center pin directly under the solder hole. Touch the solder to the center conductor through the solder hole on the center pin. Allow the heat from the metal to melt the solder so that it wicks into the center pin. Once the solder melts it only takes a tiny amount of solder to make the connection. Do not allow the solder to pool over the solder hole. The outside of the center pin should be free of obstructions for insertion. Do not over heat the center pin which could cause swelling of the dielectric of the coax.

Step 4



Main Body Install:

Insert the cable and all of the parts into the connector body. Make sure that the gasket's inner "V" channel goes correctly into the clamp nut. Tighten the back nut.



Final Testing:

When this is completed, as a final test, you should always check resistance from the center pin to the body with an ohmmeter in a low resistance scale. After verifying that there are no braid – to – center pin shorts on the other end of the coaxial cable, you should see infinite resistance (open).

