MAX-GAIN SYSTEMS, INC.

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Type N male Clamp Connector for .405 Coax

Technical Data Sheet

This Type N 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 Silver for superior performance and value. This Type N male Clamp Connector has a PTFE dielectric and a gold plated brass center pin. The Type N Male interface contains a gasket, for shock- / vibration- resistant and waterproof connections.

Material Specifications

Type N male, Clamp, Cable End Connector for .405 Coax **Part Number 7304-CS-400**

Description	Material	Plating
Clamp Washer	**Brass**	**Silver**
Nut	**Brass**	**Silver**
Pin	**Brass**	**Silver**
Washer	**Brass**	**Silver**
Gasket	**Silicone**	**Orange**
Shell	**Brass**	**Silver**
Insulator	**PTFE**	**White**
Body	**Brass**	**Silver**

Mechanical Specifications

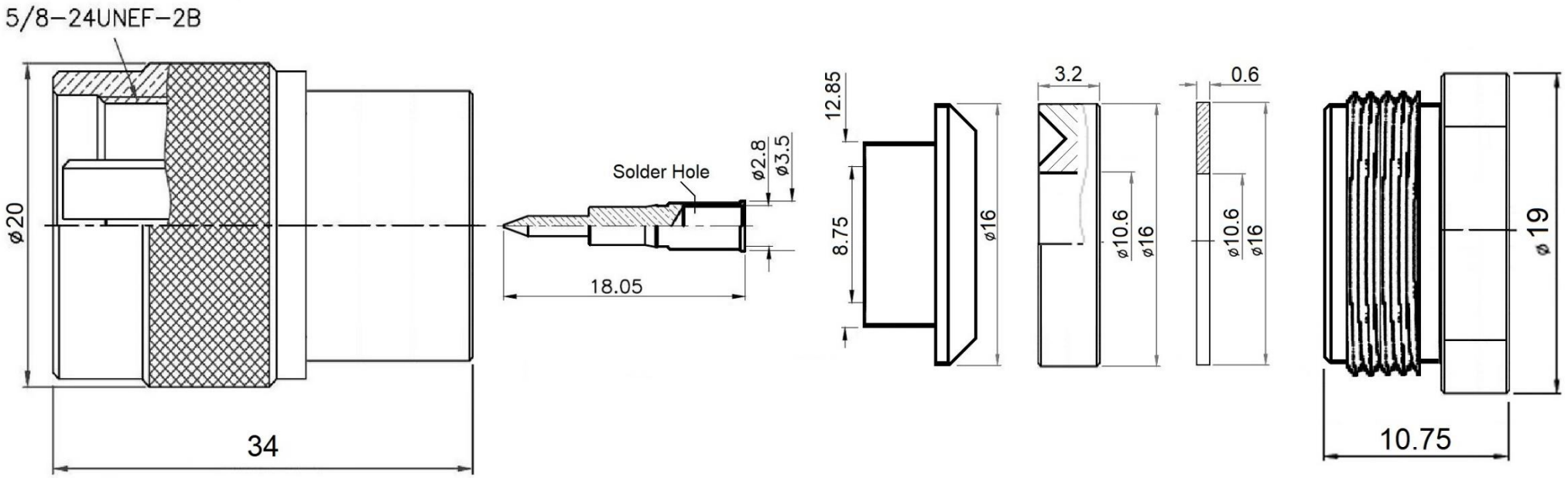
Size	Dimension
Length	**1.5 in (38 mm)**
Width	**0.82 in (21 mm)**
Height	**0.82 in (21 mm)**
Weight	**2 oz (54 g)**

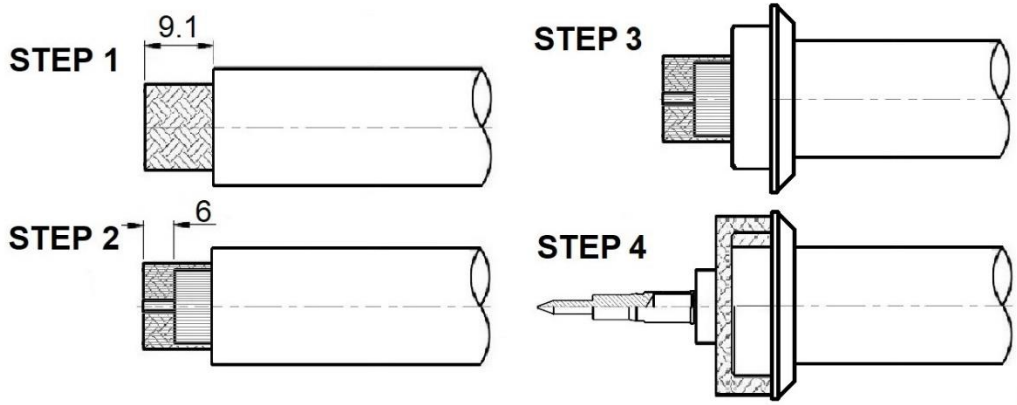
Environmental Specifications

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/type-n-male-clamp-connector-for-0-405-inch-od-coax-7304-cs-400/





RECOMMENDED
CABLE STRIPPING DIM'S

NO.	DESCRIPTION	MATERIAL	FINISH	QTY
	CLAMP WASHER	BRASS	SILVER	
	NUT	BRASS	SILVER	
	PIN	BRASS	GOLD	
	WASHER	BRASS	SILVER	1
	GASKET	SILICONE	ORANGE	1
	INSULATOR	TEFLON	WHITE	1
	BODY	BRASS	SILVER	1

UNLESS OTHERWISE SPECIFIED TOLERANCES
0.5–5 = ±0.2
5–30 = ±0.4
30–120 = ±0.6
120–315 = ±1
315–1000 = ±1.6
1000–2000 = ±2.4

UNIT: mm
SCALE: .

PART NO DATE
APPROVED DATE
CHECKED DATE
DRAWN DATE

MGS MAX-GAIN SYSTEMS, INC.

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TITLE: Type N Male Clamp On, for LMR-400, RG-213, RG-8 and other 0.400 and 0.390" Coax

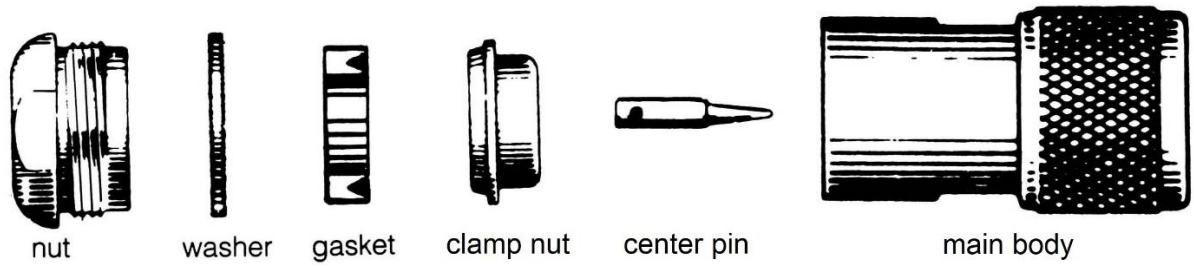
DRAWING NO: 7304-CS-400

FILE NO : .

Installation Guide

We will begin by installing the Type N 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.

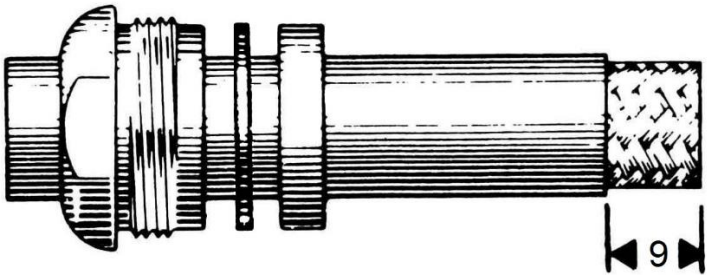
Identify All Components:



Coax Stripping:

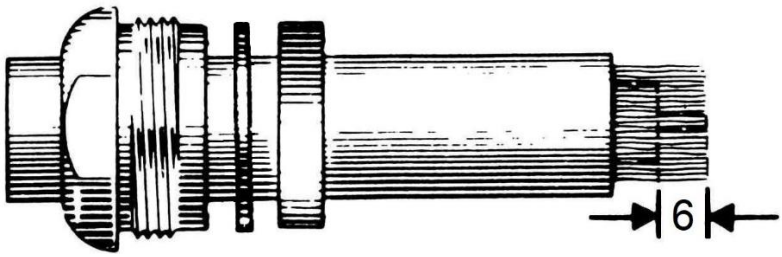
First cut your cable to the desired length and place the “nut” and “gasket then strip the black jacket back approximately 0.36 inches / 9 mm.

Step 1



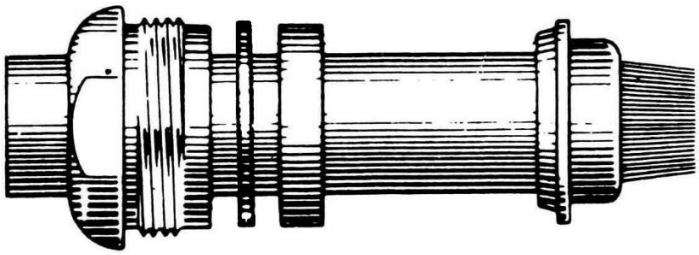
Comb out the braid and fan it out to you can get to the dielectric. Trim back the dielectric 0.234 inches / 6 mm.

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

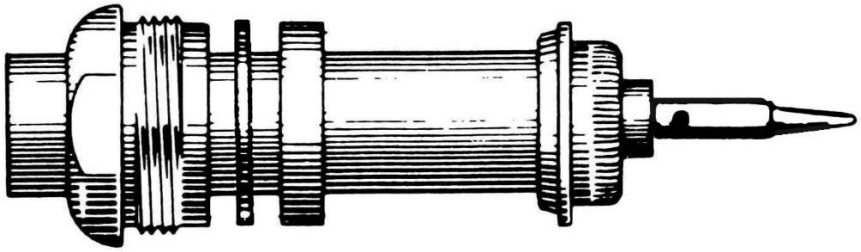


Fold back the braid wires as shown below and trim the braid so it does not go over flange of the clamp nut. Solder the center pin onto the center conductor of the coax.

Solder-On Method

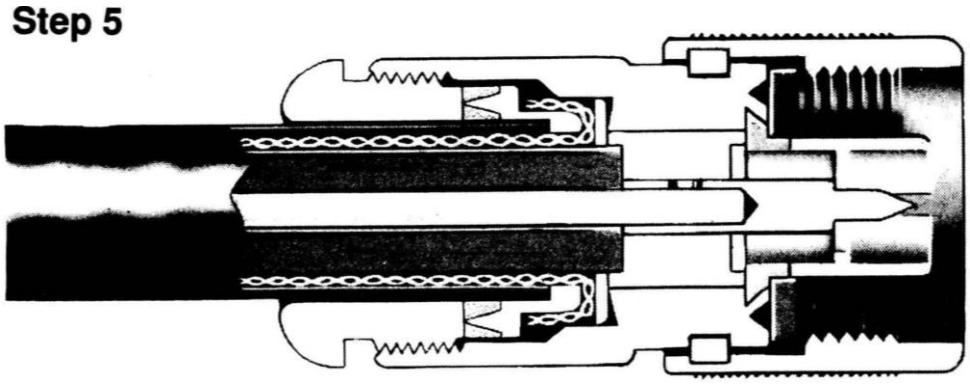
Make sure the solder hole is facing up. Touch the soldering iron to the underside of the center pin directly under the solder hole. Touch the solder to the center conductor through the solder hole on the center pin. Allow the heat from the metal to melt the solder so that it wicks into the center pin. 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).