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## Installation Guide

UHF female, Crimp-On, Cable End Connector for LMR-240, LMR-240 Ultraflex, Mini 8, Micro 8/U, RG-59, RG-8X, Belden 8241, Belden 8221, Belden 9169, Belden 9204, Belden 9228, Belden 9258, Belden 1426A, Belden 1505A, Belden 8212, Belden 8241F, Belden 9100, Belden 9110, Belden 9165, Belden 9171, Belden 9240, Belden 9259, Belden 9265, Belden 9274, Belden 9275, Belden 9659, Belden 8279, Belden 8279A, Belden 9209, Belden 9209A, Belden 82241, Belden 88241, Belden 1506A, Belden 1825A, Belden 1826A, Belden 82108, Belden 89108, Belden 89259, and other 0.240 Inch OD Coaxial Cable.

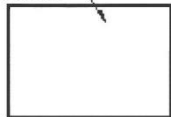
We will begin by installing the UHF female crimp-on connector on a piece of coax. This process is the same for all the types of coaxial cable that fit this UHF crimp-on connector. These connectors fit on a wide range of coax types, including: LMR-240, LMR-240 Ultraflex, Mini 8, Micro 8/U, RG-59, RG-8X, Belden 8241, Belden 8221, Belden 9169, Belden 9204, Belden 9228, Belden 9258, Belden 1426A, Belden 1505A, Belden 8212, Belden 8241F, Belden 9100, Belden 9110, Belden 9165, Belden 9171, Belden 9240, Belden 9259, Belden 9265, Belden 9274, Belden 9275, Belden 9659, Belden 8279, Belden 8279A, Belden 9209, Belden 9209A, Belden 82241, Belden 88241, Belden 1506A, Belden 1825A, Belden 1826A, Belden 82108, Belden 89108, Belden 89259, and other 0.240 Inch OD Coax.

### Identify all connector parts (3 Parts):

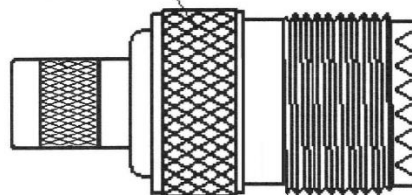
Each connector consists of one body assembly (jack), one center pin, and one rear ferrule (crimp sleeve).

Step 1

CRIMP SLEEVE



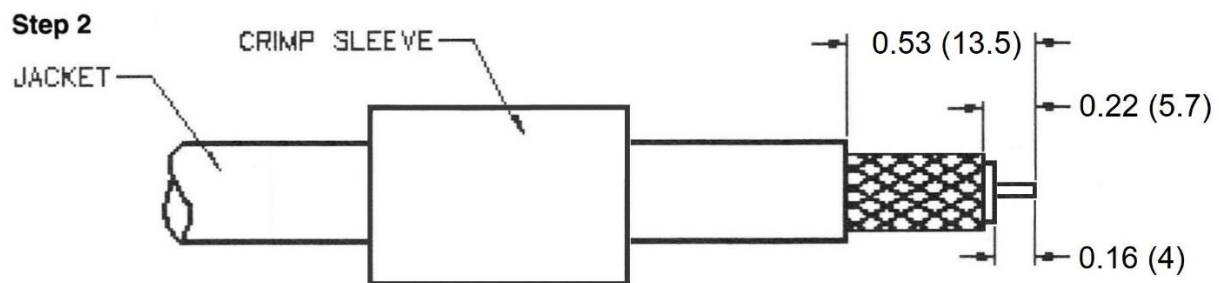
CONNECTOR BODY



## Coax Stripping:

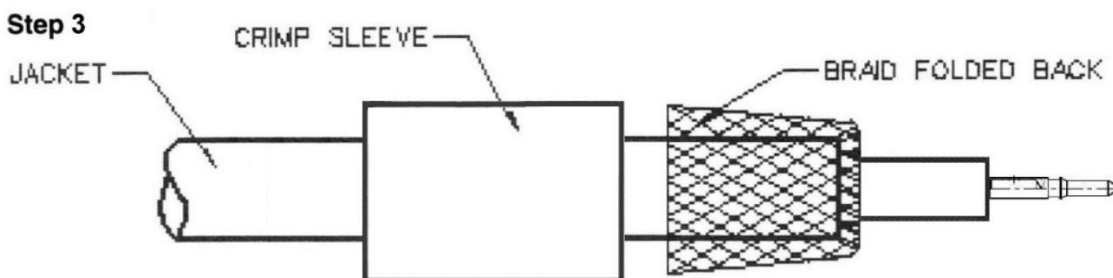
First cut your coaxial cable to the desired length and then strip the black jacket back approximately 13.5mm (0.58"). When the jacket is stripped cut the braid/foil back 5.7mm (0.22") from the fresh cut end. Finally, cut back the dielectric 4mm (0.16") from the fresh end down to the center conductor. The braid needs to be cut back further than the dielectric to insure that none of the braid or foil is touching the center conductor which could cause a short.

Once the cable is prepped, **make sure to put the ferrule (crimp sleeve) of the connector on the coaxial cable BEFORE you proceed.**



## Install Pin:

Fold back the braid and place the center pin onto the center conductor. There is a solder hole on the side of the pin for installing with a small amount of solder OR you can crimp the center pin at the base of the dielectric.



## Crimping and Soldering Install:

### Soldering Guide (preferred):

*This soldering guide is for soldering Max-Gain Systems, Inc. UHF crimp-on connectors. These are approximate measurements for our UHF crimp-on connectors, which adhere to industry standards for this type connector. If you choose to use this guide for connectors sold by others who do NOT adhere to these standards, the measurements could be off and result in a poor installation.*

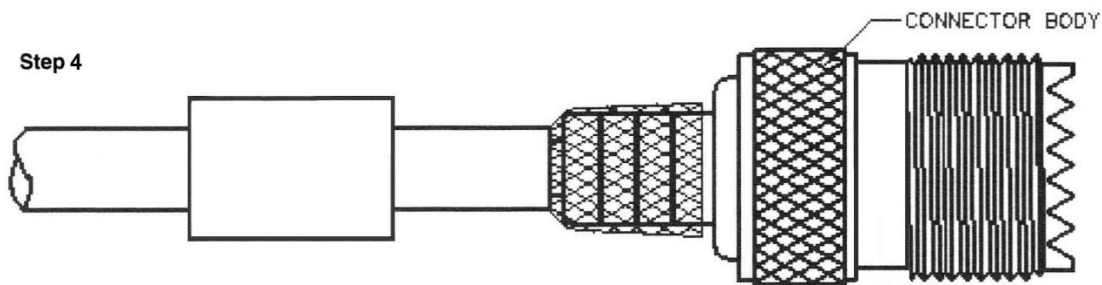
**Start by rotating the center pin so that the solder hole is facing up.** Apply heat to the center pin by placing your soldering iron underneath the pin. Before proceeding, allow sufficient time for the soldering iron tip to reach full operating temperature and clean the tip of the iron by wiping it with a damp sponge. Now apply the solder to the hole that should be facing up. The heat rises and heats up the pin faster than positioning the iron above the pin. When the pin is heated the solder will start to flow into the pin. It only takes a very little bit of solder to make a good connection.

**Crimping Guide:**

The center pin is crimpable by using the 0.068” hex die from your 7505-DIE-8X ratcheting crimper die to crimp the smaller tapered portion of the center pin. This crimp die is available by itself or as a kit with a ratcheting crimp handle.

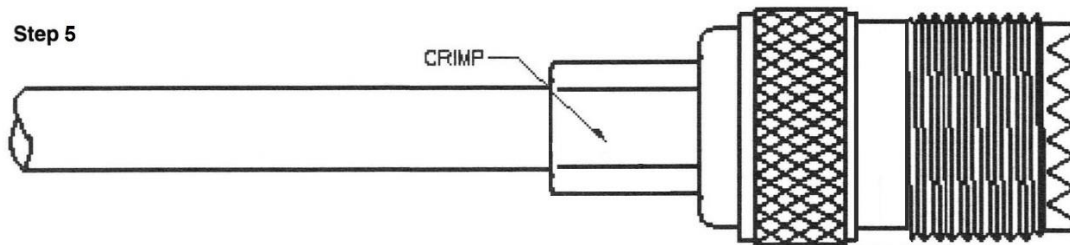
DIE Only	Die and Tool Kit
P/N: 7505-DIE-8X	P/N: 7505-HANDLE-8X
	

**Now we begin by placing the body of the connector onto the end of the coax.** Be sure the center pin seats all the way inside the body of the connector. There is a receptacle inside the connector for this pin to be fully seated. The braid should be folded back forward over the knurled section of the connector body. The braid needs to be on the outside of the connector and not tucked under it. This could lead to a short.



### **Crimping The Ferrule:**

Slide the ferrule (placed on the coax at the beginning of Step 2) over the braid and completely up against the connector body. Using the 0.255" hex die from the 7505-DIE-8X installed into the 7505-HANDLE ratcheting crimp handle, crimp the ferrule at the location shown in the picture below (on the ferrule, but right up against the main body of the connector).



### **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). This completes your UHF female crimp-on connector installation, and the connector is ready for use!