**Step by step instructions for large size coaxial cable, 10mm:  
Or 6mm (non reducer) type plug and mini-8, RG 8/X:**

1. Cut the coaxial cable (coax) to the required length.
2. Unscrew the coupling ring from the plug and put it onto the coax with the threaded end nearest to the cut end of the cable. **Note. The coupling ring must be put on the cable first as it cannot be fitted after the plug has been soldered to the cable.** (I know, I've been 'caught' before!)
3. Remove 28-30mm of the outer sheath which is likely to be made of black plastic. This can be done by cutting carefully around the sheath with a knife, taking care not to cut the shielding copper underneath.
4. Using a small tip soldering iron and small diameter solder, carefully apply solder to the braid from the point where the sheath finishes for some 15 mm along the braid ensuring that you don't melt the dielectric.
5. Now cut the soldered braid , but not the dielectric, with a fine saw or small tube or pipe cutter at 11 mm from the end of the sheath.
6. At a point 2 mm. from the cut in the braid now cut through the dielectric but not the central conductor. Remove the cut piece of dielectric.
7. Check that the coupling ring is still on the cable as instructed in step 2. (I usually slide it on then tie a loose knot to stop it sliding off). Prepare the plug by roughing the edges of the holes (A in the drawing below) slightly with sandpaper or similar.
8. The cable is now ready to be fitted to the plug. Gently screw the plug on to the cable ensuring that all the central conductor is inside the hollow central pin of the plug. Continue to screw the plug on to the cable, the thread on the plug will grip the black outer sheath and then the soldered braid should be seen through the solder holes of the plug.
9. With a soldering iron with a small bit apply solder in the holes and solder the braid to the plug. Be careful not to overheat the cable in the plug. (A very small tip will not hold enough heat, so make sure it is large enough for the job, typically a 30W iron will just about do it if the tip is large enough, but a higher wattage iron is best).
10. Solder the central conductor where it protrudes from the central pin. Now cut off any wire protruding from the pin and remove any excess solder with sandpaper or a small file.
11. Screw the coupling ring on to the plug and check that the assembled plug will screw into a socket. (untie the knot first, if used).
12. If the far end of the cable is disconnected i.e. not yet connected to an antenna balun or a transceiver etc. then electrical tests can be performed on the cable.
13. If practical check there is contact, i.e. a resistance of only a few ohms, between the central pin of the plug and the distant centre of the coax. Also between the outer coupling ring and the braid at the distant end of the cable.
14. Provided there is nothing connected to the distant end of the coax check that there is a high resistance between the inner and outer connections to the cable. A resistance of 1M ohms or more can be expected. Note that if you are touching both the inner and outer conductors or both the metal parts of the meter probes, then you will be measuring your body resistance which could be only 200K ohms.

