

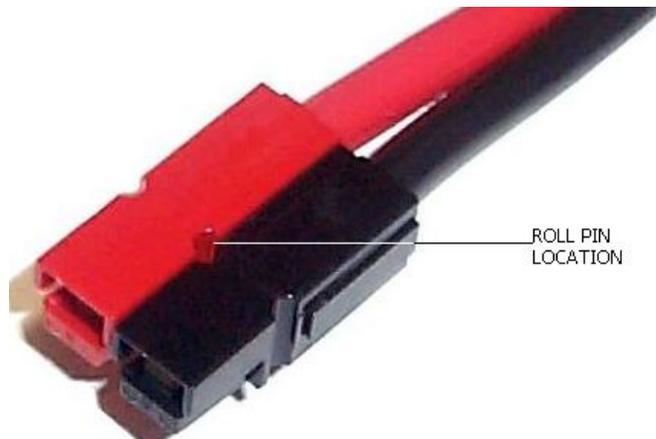
Office of Emergency Management / Roselle NJ Anderson PowerPole Connectors

Orange County Radio Amateur Civil Emergency Serviceⁱ was one of the early adopters of the Andersen PowerPole® series connector. OC-RACES success with this genderless connector led to the sunsetting of the Molex style connector.

Many emergency communications groups and OEM have since standardized on Anderson PowerPole connectors for communications equipment

This standard assures that any radio can be connected correctly to any power supply. Setup is fast and mistakes are virtually eliminated, and no equipment sits idle because it has the wrong connectors.

Following are some assembly notes for the connectors:



OC RACES recommends that the housings should be mated according to the diagram above, viewing from the contact side (opposite the wire side), tongue down, hood up, RED on the LEFT, BLACK on the RIGHT.

A factory supplied roll pin (3/32-inch x 1/4 inch) is suggested to keep the housings from sliding apart. If future disassembly is not required, a cyanoacrylate glue may be used to permanently mate the connector housings.

The contacts can be soldered or crimped to wires.ⁱⁱ After a contact has been attached to a wire, it should be installed into the housing so that the housing spring mates with the underside of the contact. When you slide it completely in the housing you should hear a click when it passes the spring detent.

To remove a contact from the housing: The manufacturer suggests the 111038G2 insertion/extraction toolⁱⁱⁱ. You may also substitute a very small blade (jewelers screwdriver or X-Acto knife) to lift up the front of the contact slightly over the detent and pull the contact out of the rear of the housing, allowing the contact to be removed.

PowerPole Specifications and Selection Guide

Highly conductive silver-plated copper contacts allow minimal contact resistance at high currents. Self-wiping action on make and break keeps conducting surfaces clean. Contact dents keep connectors mated in high-vibration applications and provide quick-break, snap action upon disconnect.

Non-corrosive stainless-steel leaf springs maintain constant contact pressure—ideal for frequent connections/disconnections and intermittent overloading. Durable, high impact-resistant, polycarbonate housing with UL94V-2 flammability ratings comes in many colors for circuit trace ability and coding.

Identical connector halves are genderless—making assembly quick and easy and reducing the number of parts stocked. Molded-in dovetails allow for customized harness in a variety of configurations.

Anderson part numbers:

15 A Black Red Yellow	Housing and Contact (10 pk) #1395G1W #1395W #1395G5W	Accepts Wire 16-20 gauge wire 16-20 gauge wire 16-20 gauge wire
30 A Black Red Yellow	Housing and Contact (10 pk) #1330G4W #1330W #1330G11W	Accepts Wire 12-16 gauge wire 12-16 gauge wire 12-16 gauge wire

Additional Assembly notes:

In some cases, users will want to solder wires rather than or in addition to crimping into the connector barrel. Although this improves the connection it does entail the risk of solder running down the connector. Following is a procedure designed to make soldering easy and safe.

Use a drill press to make a 3/64" hole in the center of the barrel portion of the contact insert. When you solder the insert to the wire, apply the solder through this small hole. This makes it easy to get the solder in the barrel where you want it and makes it less likely to flow out onto the contact as it does when it's applied from the contact end.

ⁱ Radio Amateur Civil Emergency Service, Orange County, California

ⁱⁱ Anderson 1309G2 crimping tool is available for loan to OEM staff through W2RWJ.

ⁱⁱⁱ Anderson 111038G2 insertion/extraction tool is available for loan to OEM staff through W2RWJ.