



Anderson Powerpole® Connectors

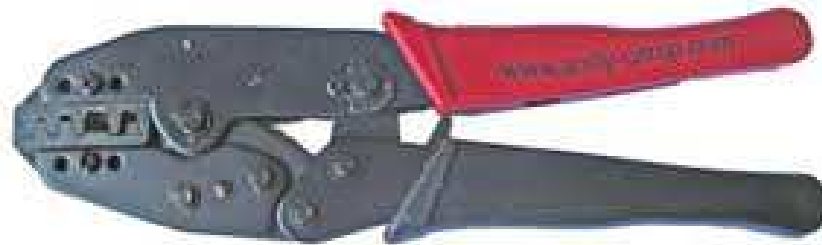
NCRC Meeting August 12, 2013

Bob – WB4SON

Advantages of Powerpoles

- Designed for DC power connection
(10K Mech. Cycles, 250 hot-plug @ 45 Amps)
- Single housing supports 15/30/45 amp contacts
- No male/female to worry about
- Current rating based on WIRE not contact
- This is THE Standard for ARES/RACES
- Easy to make custom configurations (3+ contacts, different colors, unusual keying)
- Cost <\$1.00 per pair

Crimpers



- AndyCrimpPro (\$50)
 - www.hamcq.com (High Sierra)
 - www.qsradio.com (Quicksilver Radio)
 - 15/30/45/50/75 Amp Contact Dies included
 - Dies for Coax and others available (\$18)
 - ARRL/QST Reviewed
 - <http://www.youtube.com/watch?v=mSC4aKqwSLc>

Crimpers



PowerWerx TRICrimp (\$40)

www.powerwerx.com (PowerWerx)

Crimpers



Greenlee Terminal Crimping Tool (\$30)

www.amazon.com

Note: Can be used, but isn't specifically designed for the job. No mechanical leverage. May "mash" contacts.

Basic Connector

Colored Shells



Contacts



Roll-pins



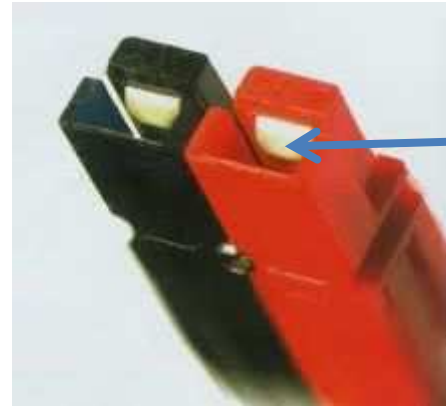
Cutaway of Mated Connector



30 Amp Contact Crimped
on wire and inserted into
contact shell

Steel Spring built into Connector
which presses on crimped contact

Rule for Assembly (ARES)



Connector Tongue

“Red Right Tongue Top”



The Contact fits through the gap between the housing and spring and is inserted until the contact “snaps” over the end of the spring

How to Insert Contact and Crimp



With “red” handle down (fixed arm)...

Insert with split in barrel up (tongue flapping down)

Insert so almost all of barrel is in die

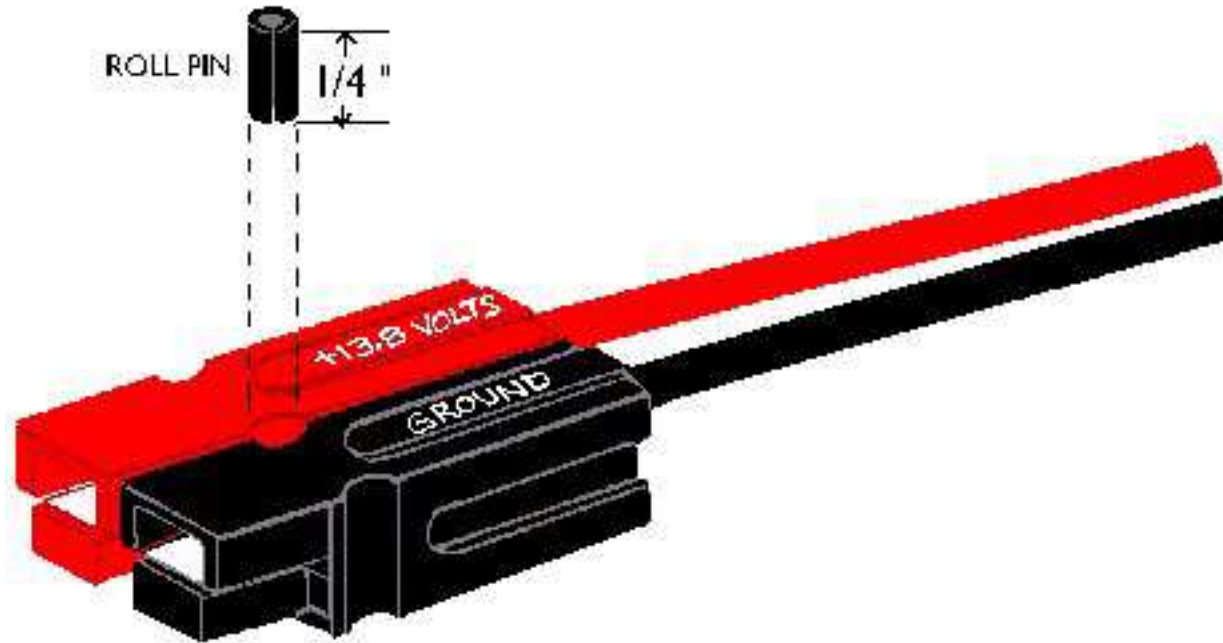
(Contact is in 30 amp position)

Insert wire into other side of die (1/4” strip fully inserted into barrel)

It helps to hold the red arm on the edge of a desk and just concentrate on pushing the black (ratchet) arm down.



Roll-pin Assembly



Note: Some users don't like the roll-pin and claim it will fall out. Buying "welded" pairs or super-gluing them prevents that issue.

Resources for Powerpole Supplies

- www.powerwerx.com
- www.qsradio.com
- www.hamcq.com
- www.westmountainradio.com