ARES District 4 Net Script

__**Nov. 01, 2018**__ (net date)
Script Rev 06-22-2018

Good Evening everyone and welcome to the South Texas District 4 ARES net. This is

TOM_ *(name)* **K5BV** *(call)*
**ARES EC for Aransas and San Patricio Counties**
(position e.g. member, AEC, etc. & County)

I will be the Net Control Station for tonight's net. First, if there are any stations with priority or emergency traffic please call **K5BV***(call)* at this time. UN-KEY

*Either say "***nothing heard***" or handle the traffic immediately.*

All hams in all Counties are welcome to check in to this net. You do not need to be an ARES member to participate in this net.

The purpose of ARES, the Amateur Radio Emergency Service, is to furnish emergency communications via amateur radio when regular means of communications fail or become inadequate during an emergency situation. ARES is sponsored by the ARRL, and supported by area radio clubs and individual hams. The only qualifications for ARES are that you possess an amateur radio license and you have a desire to help others. For more information or off-net questions please contact one of the following by email

Mark Dist. 4 EC - ad5ca@arrl.net
Tom EC for Aransas & San Patricio County - - - - - k5bv@arrl.net
Bob Asst EC for Aransas County- - - - - - - - - - - - - kf5cfu@arrl.net
Jim EC for Live Oak County- - - - - - - - - - - - - - - - w5im@arrl.net
Harley EC for Kelberg County - - - - - - - - - - - - - - kg5ayd@arrl.net

The net is currently scheduled monthly for the First Thursday at 8 PM. This is subject to change. We are currently using the 146.820 repeater in Corpus Christi with a (-) MINUS offset and a 107.2 tone.

This net is being conducted for the purpose of providing training and information related to emergency communications; to serve as a forum for discussion; and to foster fellowship among Amateur Radio operators.

Next, are there any operators who would like to make announcement or provide information related to EmComm? This is not general check-in. Please state your call now.

Tonight after Check-In **will be a discussion on PowerPole connectors**.

For Check-In, if the frequency has been clear a second or two key the MIC and s-l-o-w-y give your FCC call sign using ITU phonetics spoken clearly and slowly and UNKEY. Stating your name as well will be appreciated. Writing calls down takes a moment so allow a couple of seconds. Keep checking in and calls will be reviewed for clarifications, errors and missed calls. Please check-in with **_K5BV_** (Call) now.

(note these actions)

- *read each call back,*
- *ask for corrections*
- *ask for additional check-ins*

We will have comments after the tonight's material on **_PowerPoles_**.

Before we go down the list for comments if there any late check-ins please provide your call now.

(again note these actions)

- *read each call back,*
- *ask for corrections*

Net Control **K5BV**_ *(your call)* will now go down the list for comments.

- *go down list of check-ins*
- *now have presenter give their comments)*

Final call for check-ins. Additional stations for the net please check-in now with **_K5BV_** *(your call)*.

(again note these actions)

- *read each call back,*
- *ask for corrections*
- *ask for comments*

THIS IS NET. We had XX check-ins tonight. Thank you all for joining the ARES net tonight, and thanks to the repeater owners and maintaineers for the use of these fine repeaters. I am now closing the net and returning these repeaters back to normal amateur radio use. Stations may remain on frequency to make additional QSOs.
Net Control **_K5BV_** *(your call)* Out.

	FCC CALL	NAME	DATE 11 - 01 - 2018
01	_____	_____	*(ENTER NET CONTROL)*
02	_____	_____	
03	_____	_____	
04	_____	_____	
05	_____	_____	
06	_____	_____	
07	_____	_____	
08	_____	_____	
09	_____	_____	
10	_____	_____	
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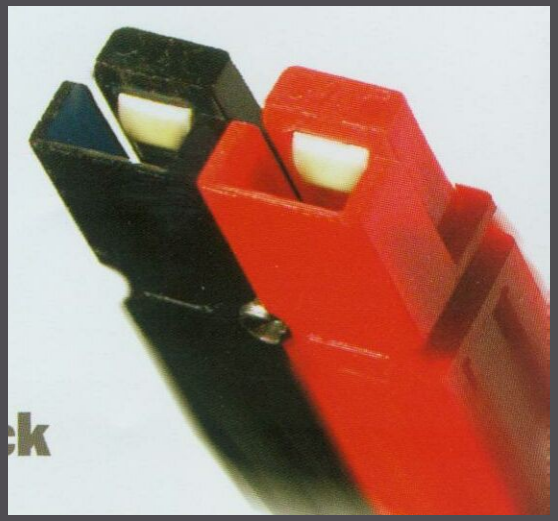
16	_____	_____	
17	_____	_____	
18	_____	_____	
19	_____	_____	
20	_____	_____	
21	_____	_____	
22	_____	_____	
23	_____	_____	
24	_____	_____	
25	_____	_____	

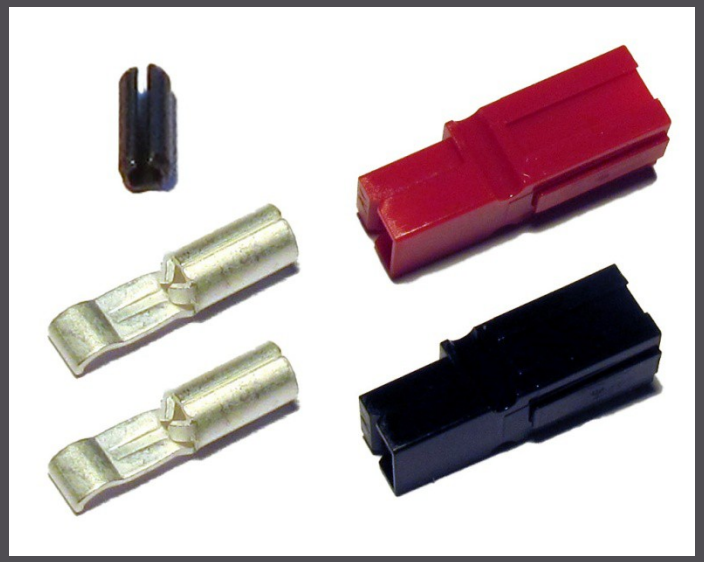
The ARES Standard

- The 30A Anderson Powerpole has been adopted by the amateur radio community as their standard 12-volt DC power connector for everything from radios to accessories.
- Standard polarity configuration is one red housing for positive and one black housing for negative.
- Remember this Mnemonic:
  - **“Red on Right, Tongue on Top”**



Anderson Powerpoles

- One connector for 15A to 45A
- Three contact options allow use of 10 to 20 gauge wire
- Low voltage drop (< 0.02 volts)
- Inexpensive (approx. $1 ea. retail)
- Exceeds current rating of wire (based on max temp rise)



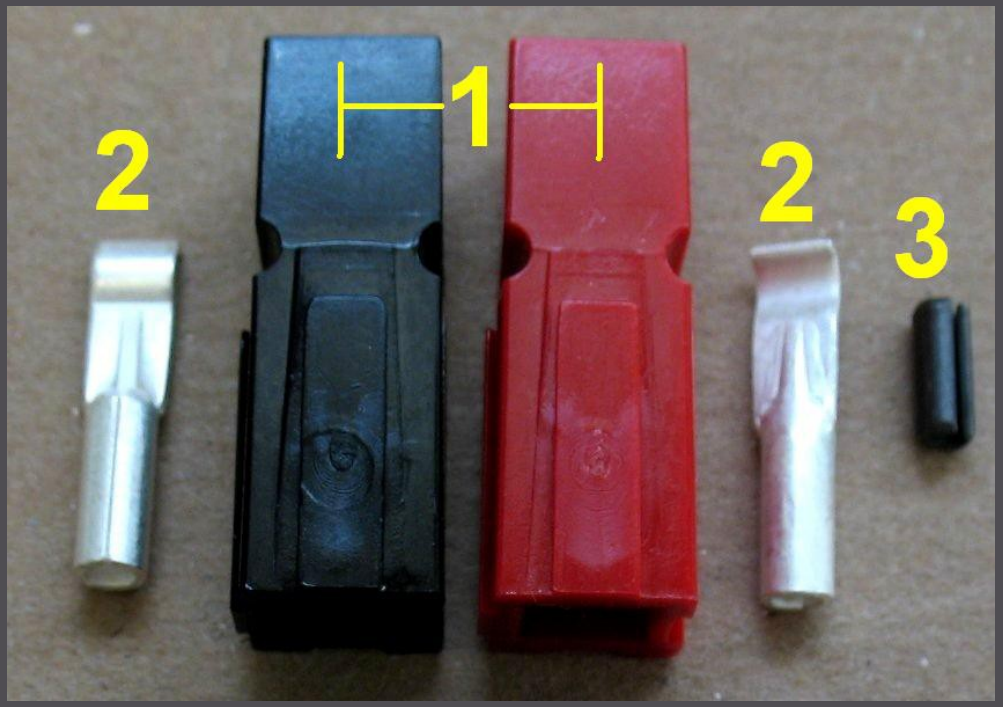
Anderson Powerpoles

- Flat wiping contact system is self-cleaning
- No soldering required!
- Keyed, interchangeable, and genderless
- Wide product range - From 10 amps through 180 amps
- Colored, modular housings
  (11 different colors!)

Benefits

- Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection.
- Simplifies assembly requirements and reduces parts inventory.
- Allows customized multi-pole configurations with visual color coding to match wires.
- Prevents damage to connectors from being mated incorrectly.

Powerpole Parts Breakdown

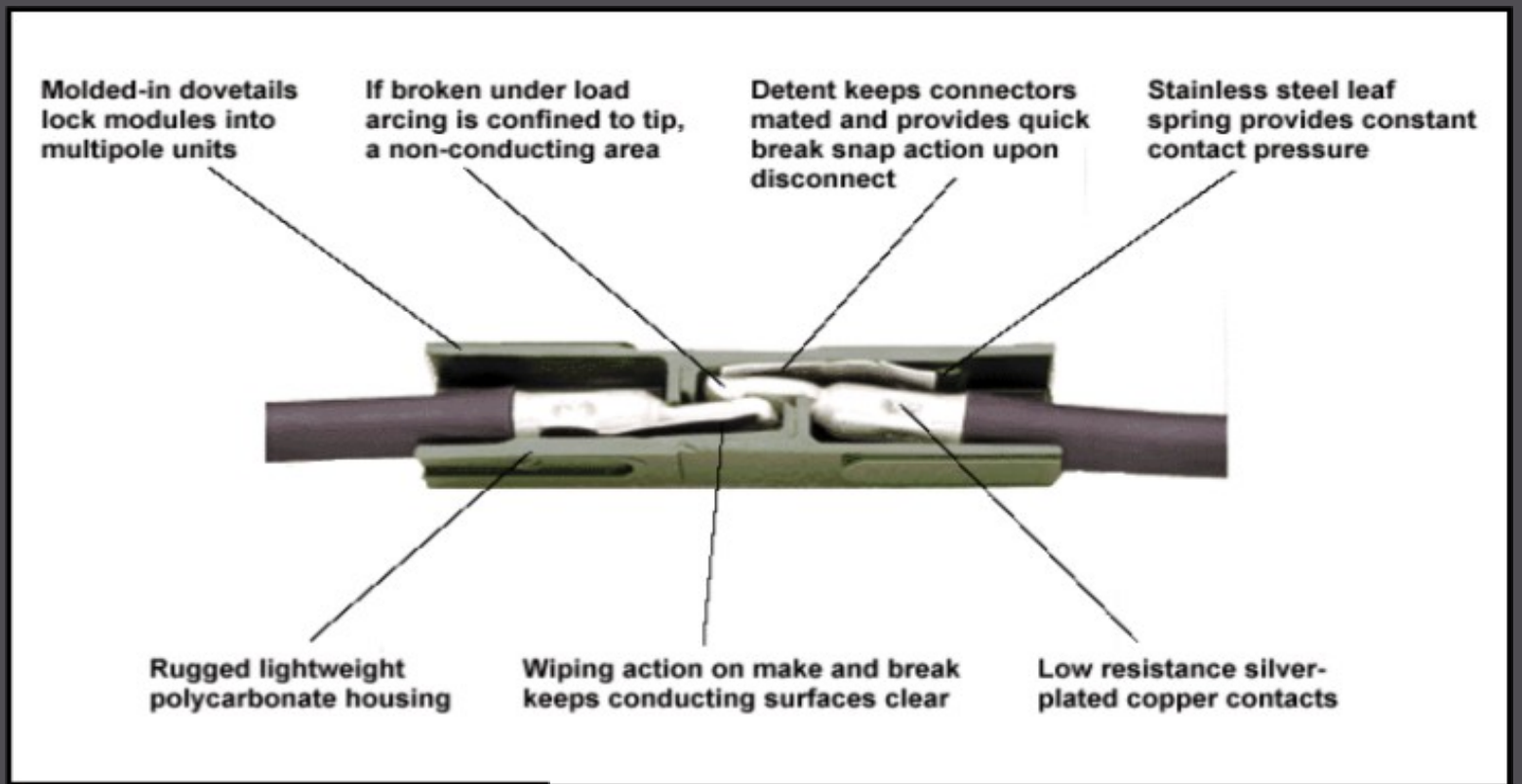


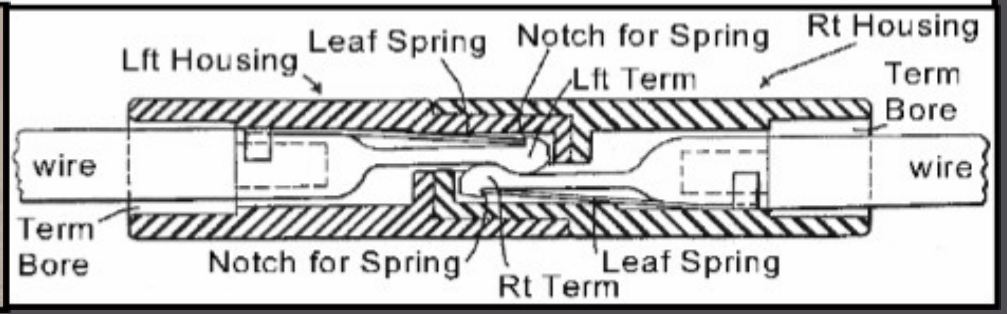
1. Housing
2. Contacts
3. Lock pin (or use glue instead)

Powerpole Identification

- 4 different sizes of housings
- PP15/30/45
- PP75
- PP120
- PP180
- Only PP15/30/45 are interchangeable. All others are not!

Powerpole Anatomy



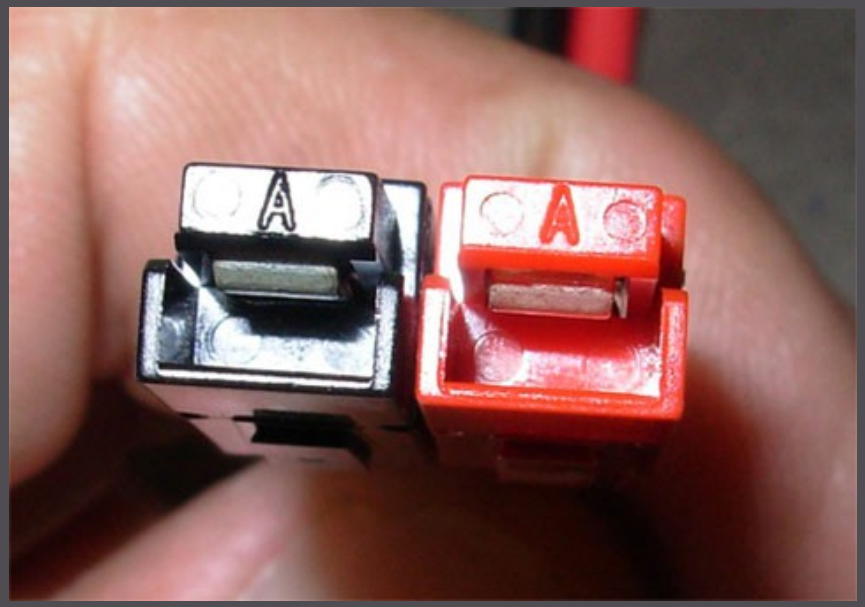


Assembly Overview

- Assemble the housings using the dovetails.
- Square off the wire ends
- If using zip wire, split pair about ½ inch.
- Strip 5/16 inch of insulation from wire.
  - Take care to avoid knicking or cutting wire strands.
- Insert untinned wire into the contact barrel.
  - If stranded, twist the bundle tight.
- Crimp the contact.
- Insert the contact into the connector housing until it clicks.

Assembly

- Housing orientation VERY important.
- As you are looking at the connector
  - Tongues up
  - “A”s up
  - Black on left
  - Red on right

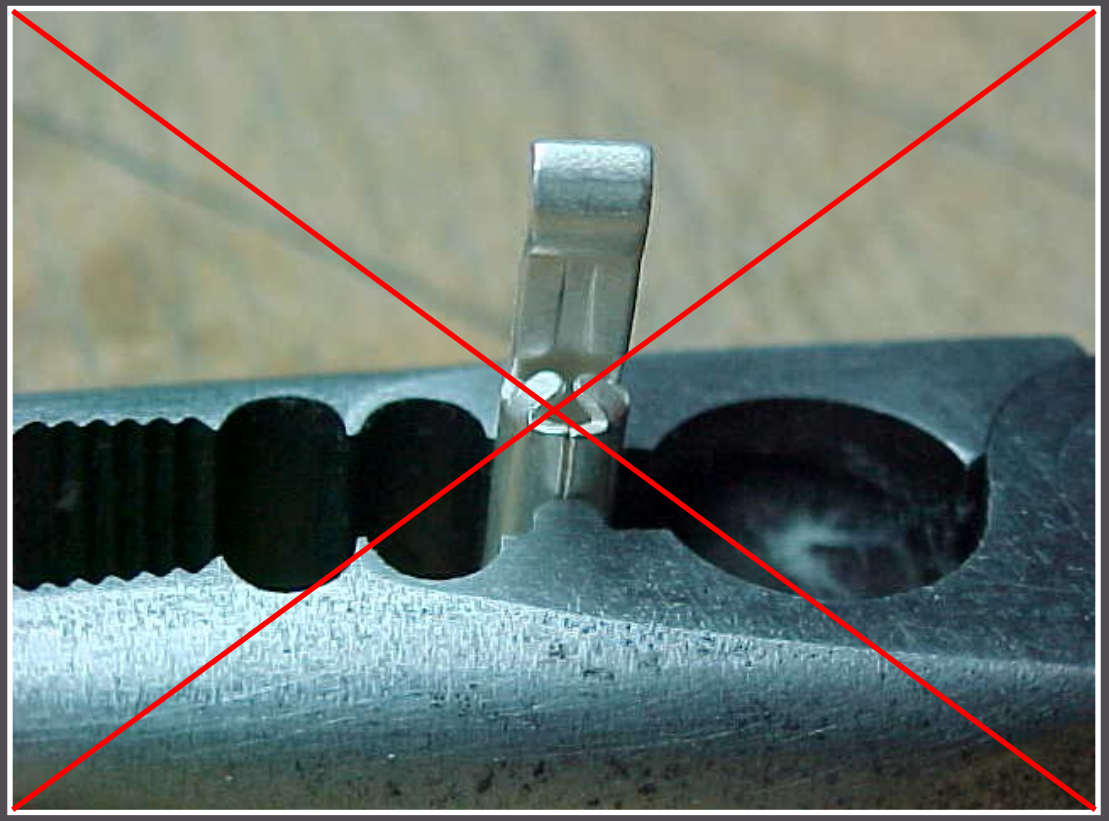


“Red on Right, Tongue on Top”

Contact Crimper

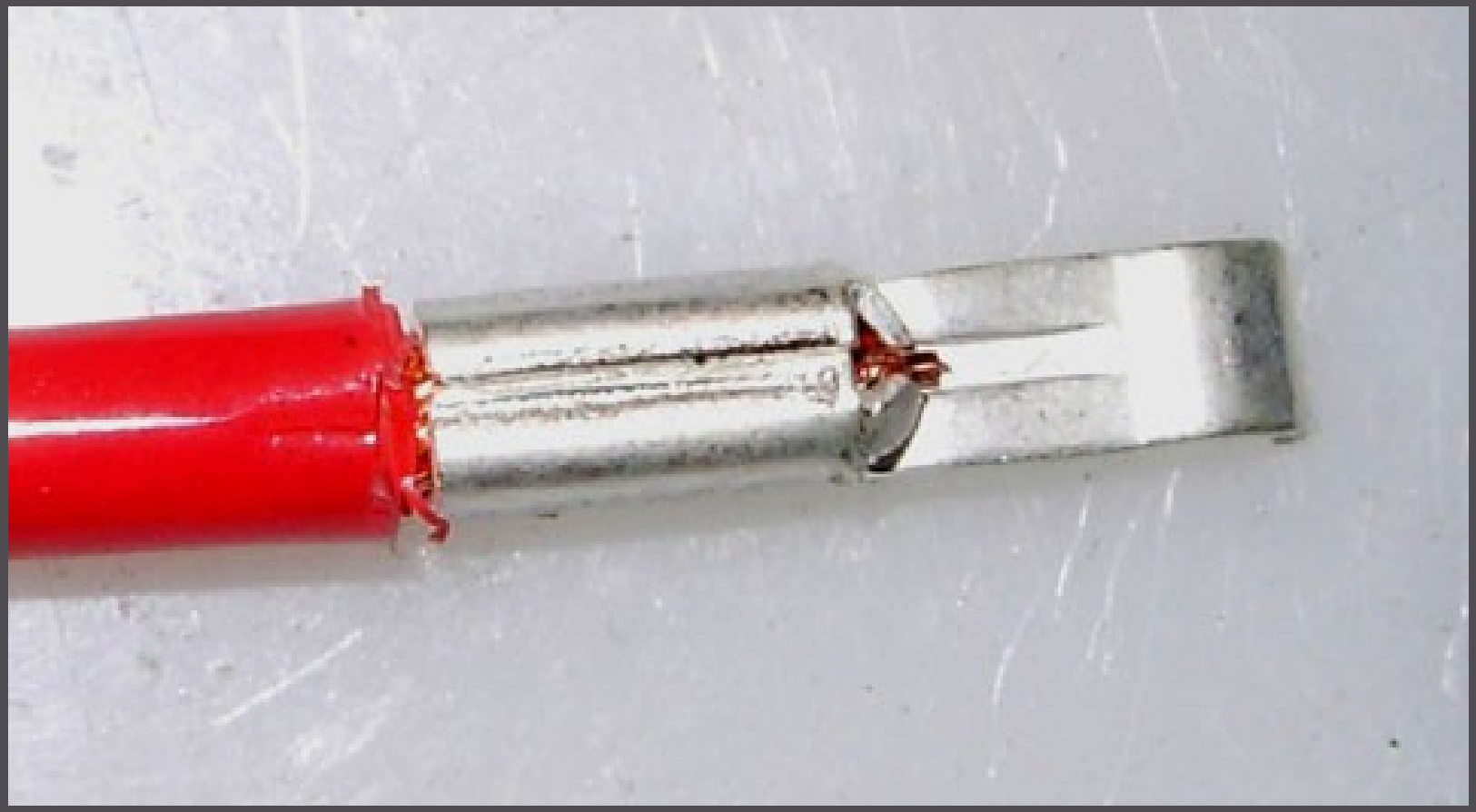
- Heart of the assembly procedure!
- Mess this up and you've botched the whole thing
  - Contact won't go in
  - Contact won't lock in
  - WIRE CAN COME OUT!

Crimping Procedure

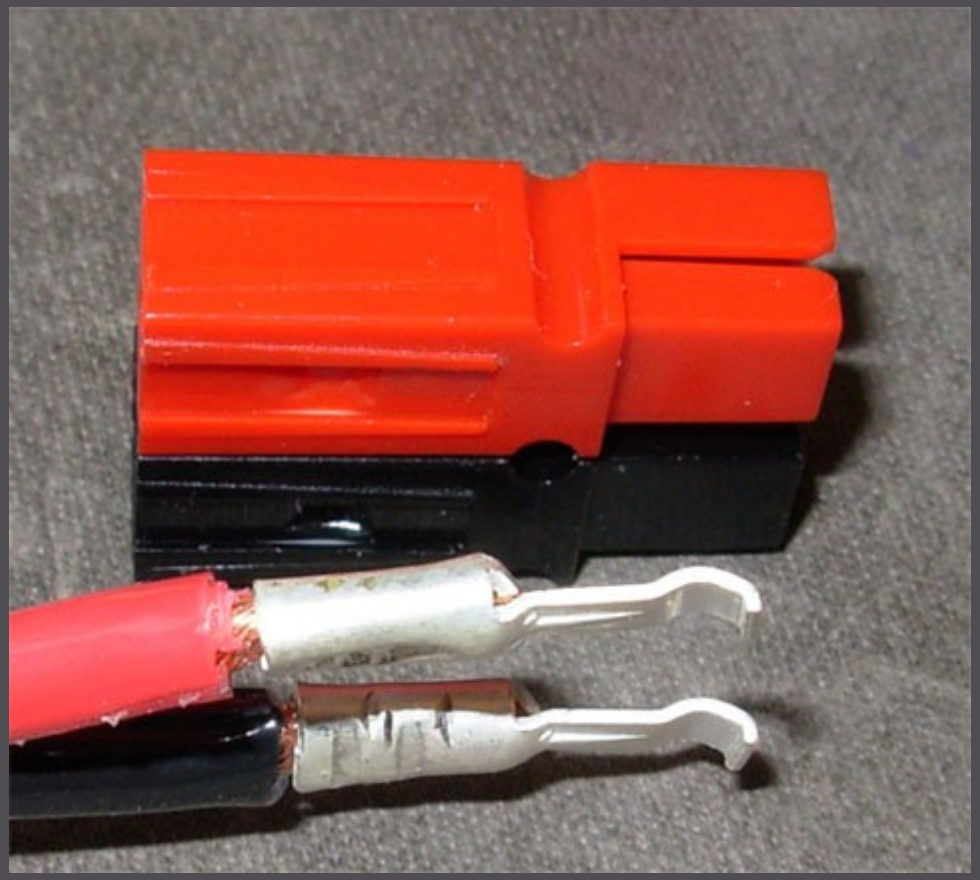


- Regardless of the crimping tool used, the seam in the barrel of the contact must be towards the open / flat side of the tool's die.

Should look like this!



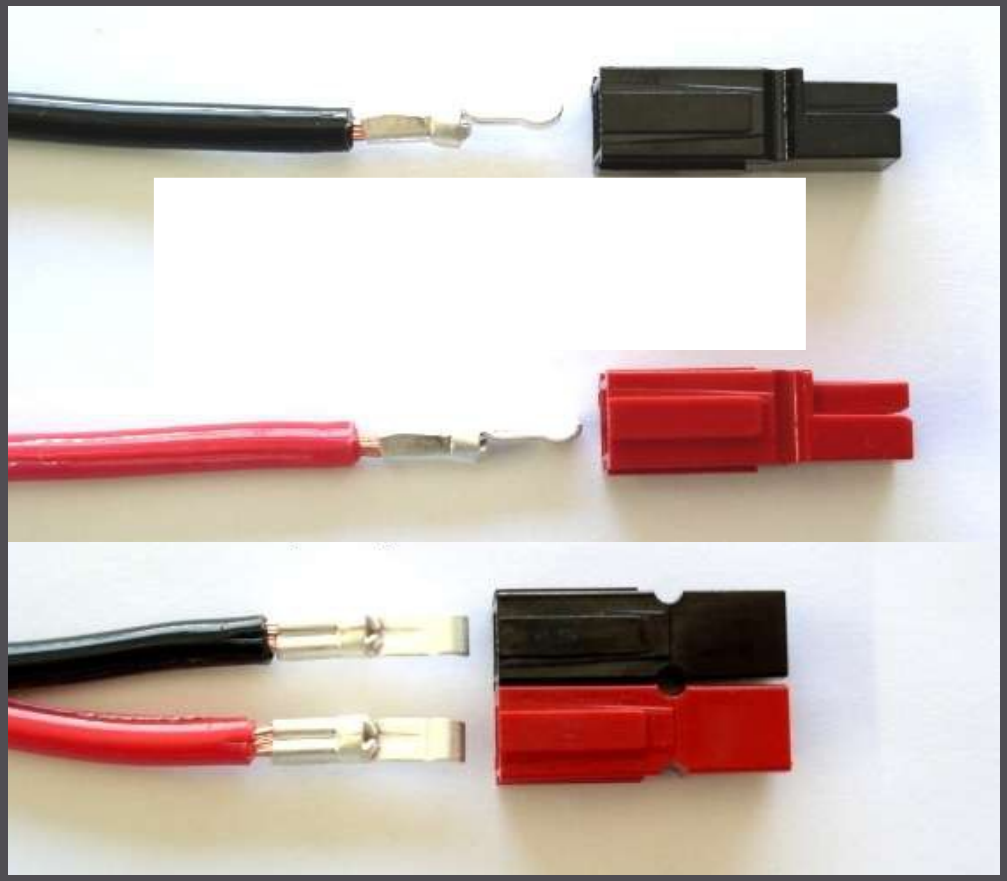
These are acceptable too!



- This is the correct orientation for insertion into a standard configuration housing

CORRECT examples

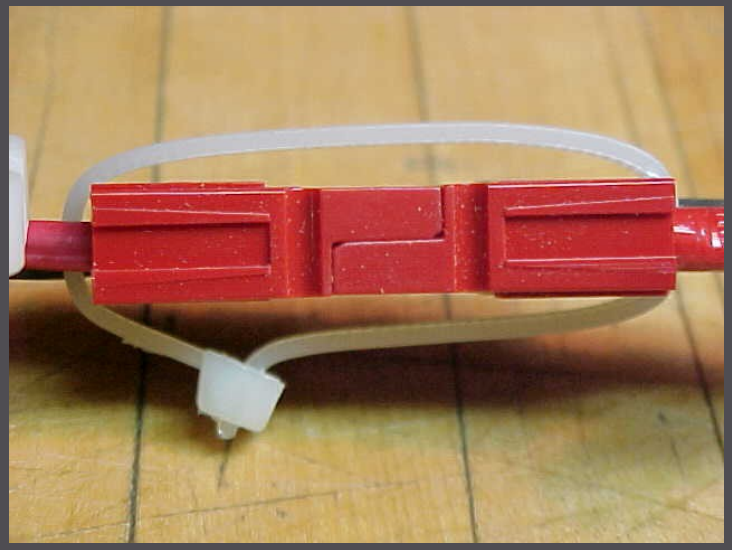
- Contacts straight
- Contacts correctly aligned
- Contacts correctly polarized
- Ready to insert



Final Connector Assembly

- Insert contact “curve” towards the tongue (A).
- Slide straight in until “CLICK” is heard or felt.
- Tug back on wire to verify lock
- Repeat with other contact.
- DONE! One Powerpole completed!

Retention Options



Anderson Powerpoles
The ARES Standard

- This was edited from a presentation by ARES EC Clint Miller, KC0JUO.