

POWERPOLE® CONNECTORS Installation Tips

03 DEC 2008

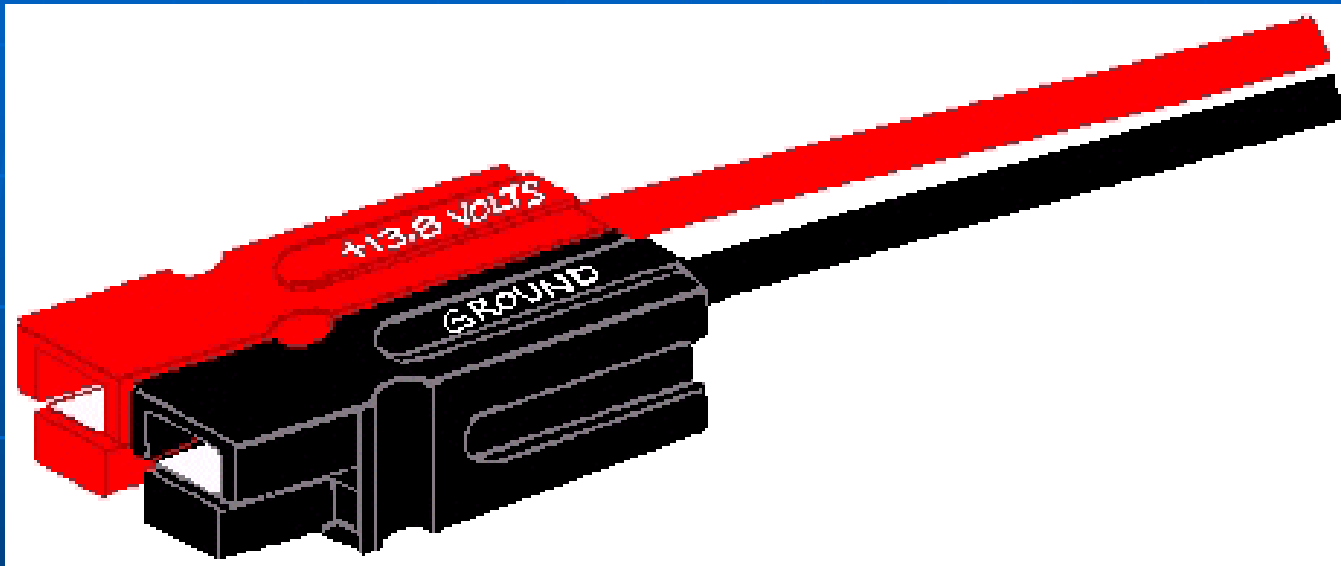
Emergency Communications Power Connectors

Powerpoles,

Convert your mobiles &
base stations to the
NEW Emerg Comm
Standardized
Connector

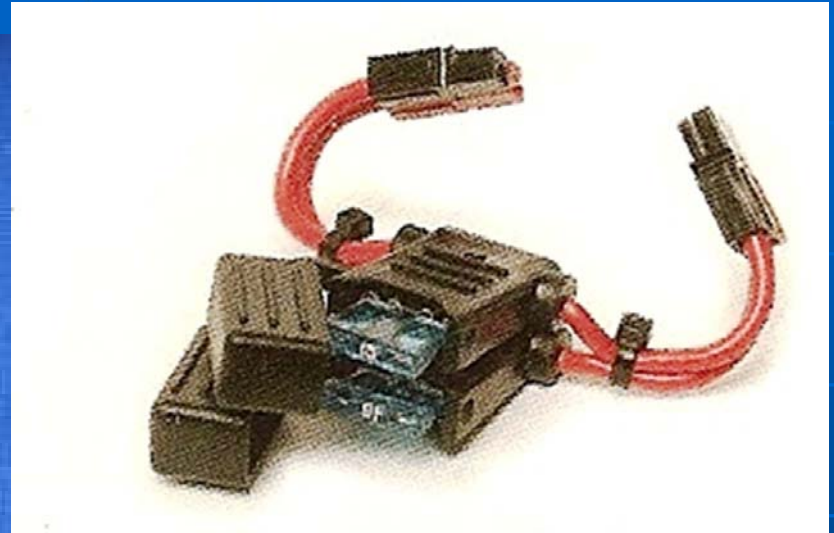
• **Easy to use** • **Great Price** • **Reuseable**

ARES/RACES STANDARD



Viewing from the contact side (opposite the wire side), tongue down, hood up, RED on the LEFT, BLACK on the RIGHT.

APPLICATIONS



ACCESORIES

- SPLITTER WITH OEM T-CONNECTOR



•1 IN – 3 OUT

ACCESSORIES

■ SPLITTERS

- Any connection point is an input / any connection point is an output



75A IN – 45A OUT



ACCESORIES

- **Blok-Lok clamps**





PARTS LAYOUT

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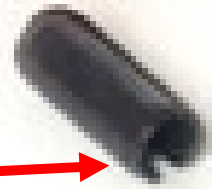
Housings

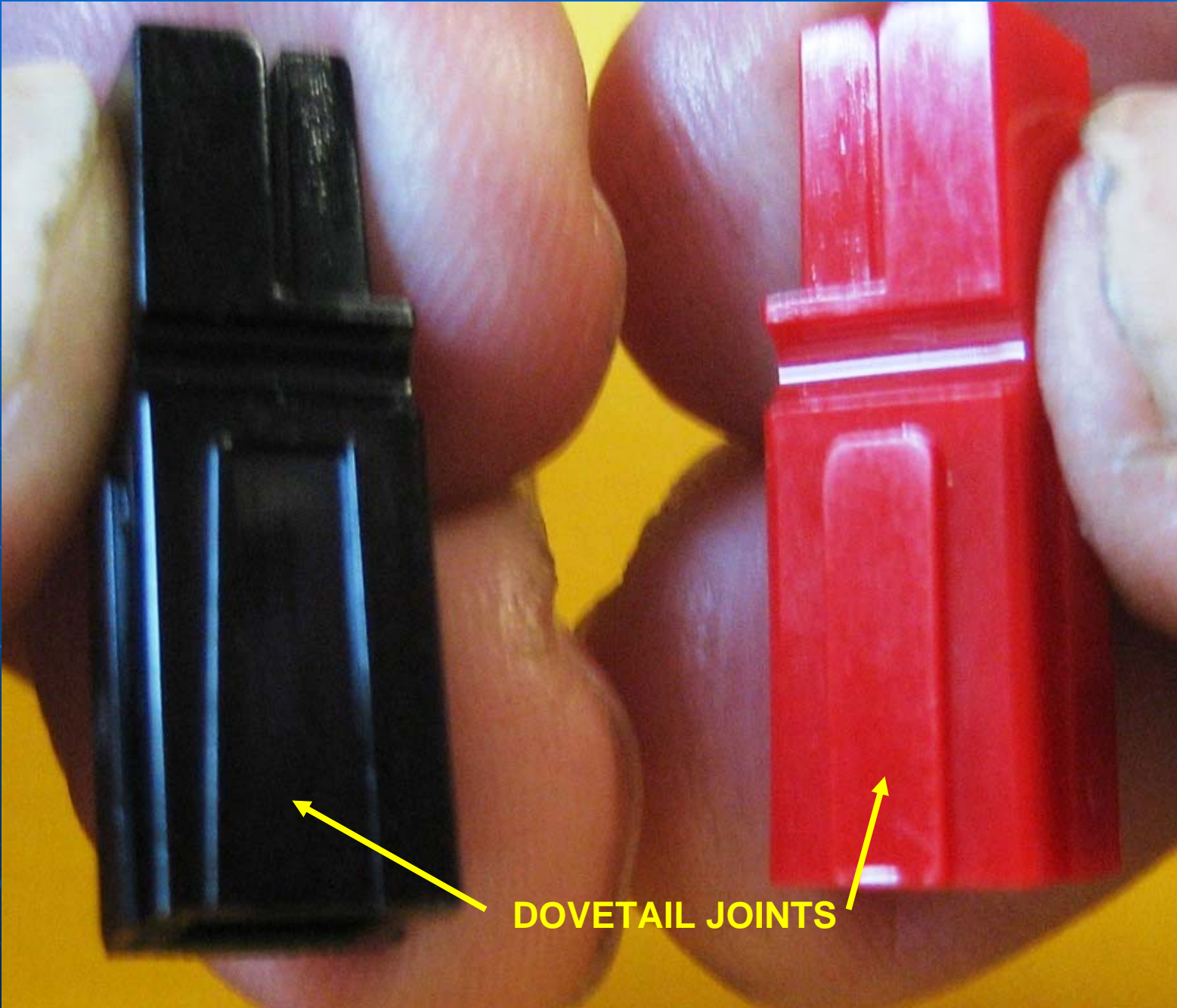


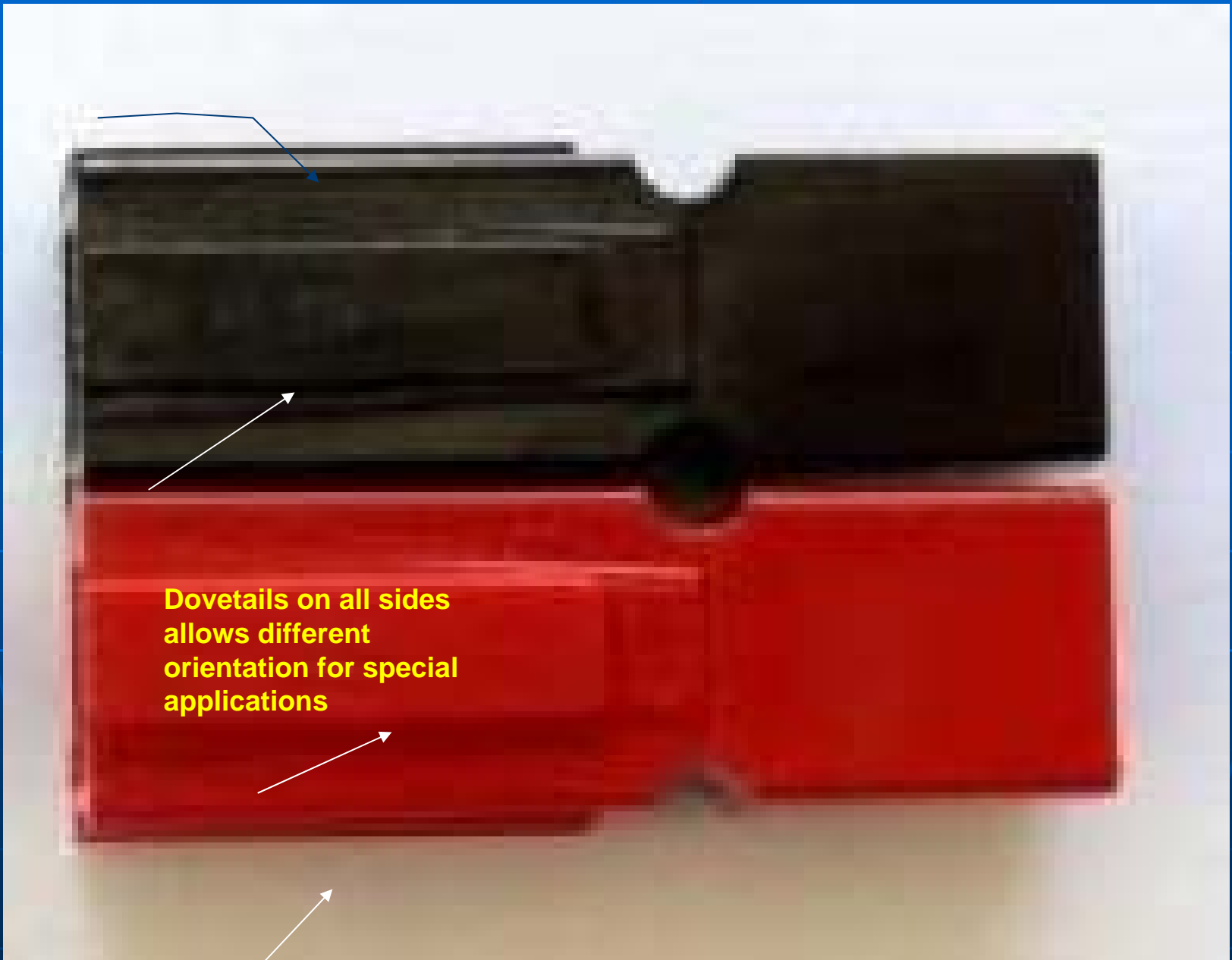
Contacts

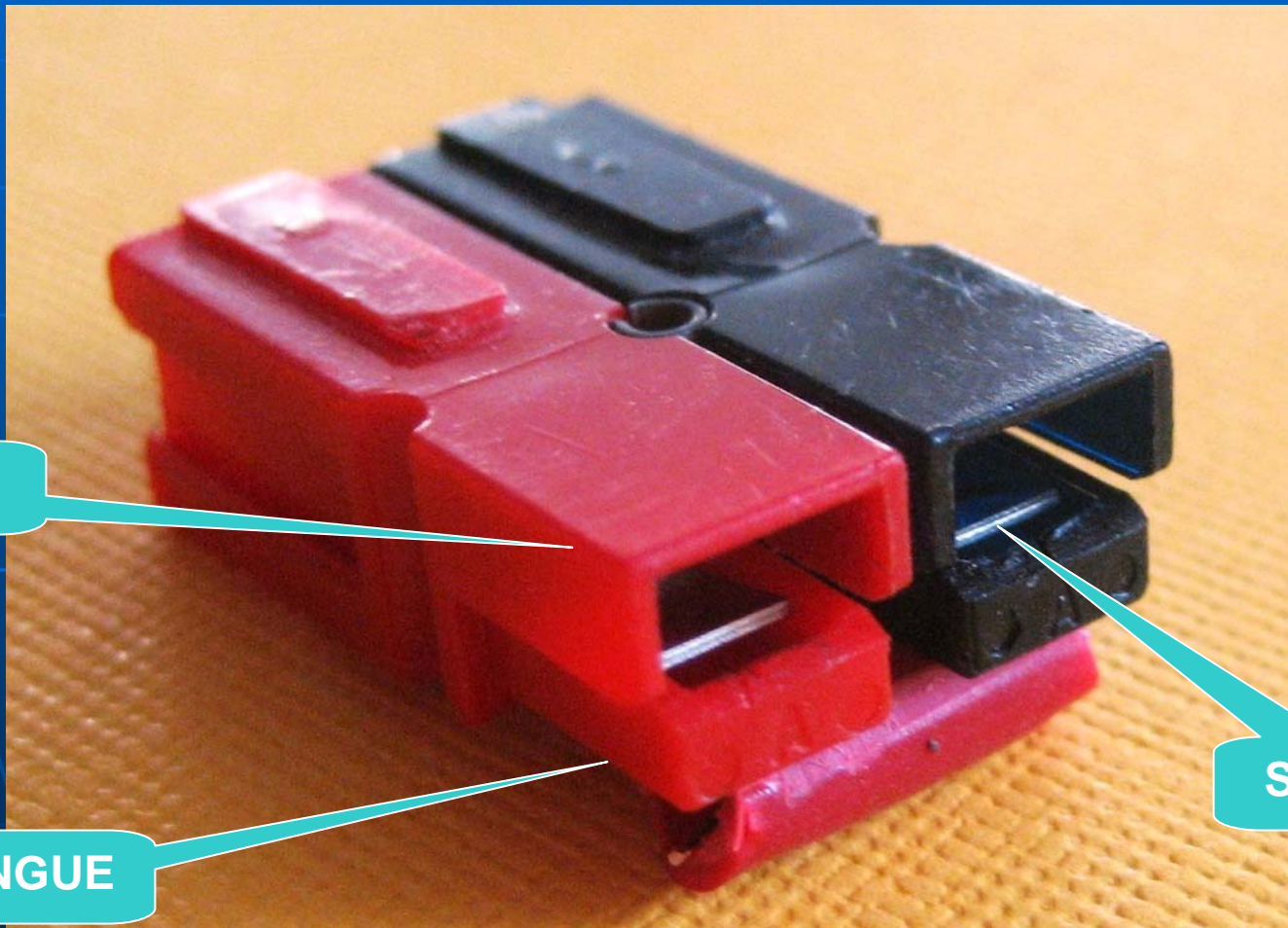


Roll Pin









HOOD

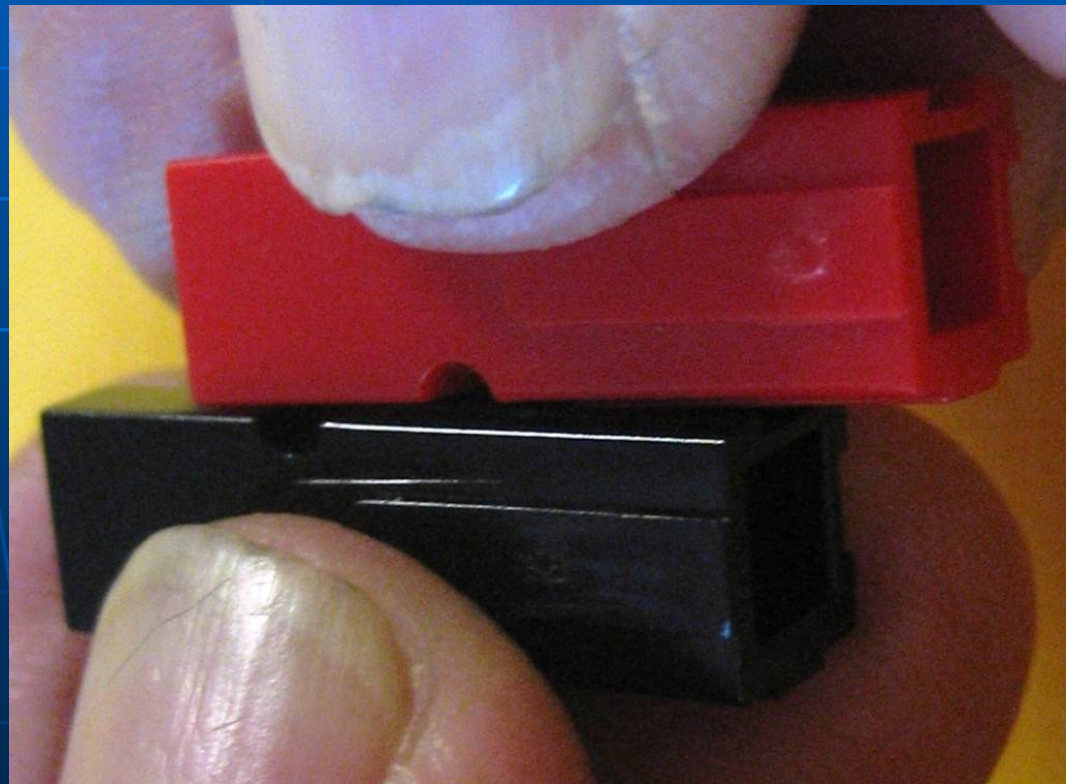
TONGUE

SPRING

Viewing from the contact side (opposite the wire side), tongue down, hood up, RED on the LEFT, BLACK on the RIGHT.

Always SLIDE (not snap) the joints together!

They will be damaged if you try to snap them together or apart.
They **ONLY** slide together in one direction.





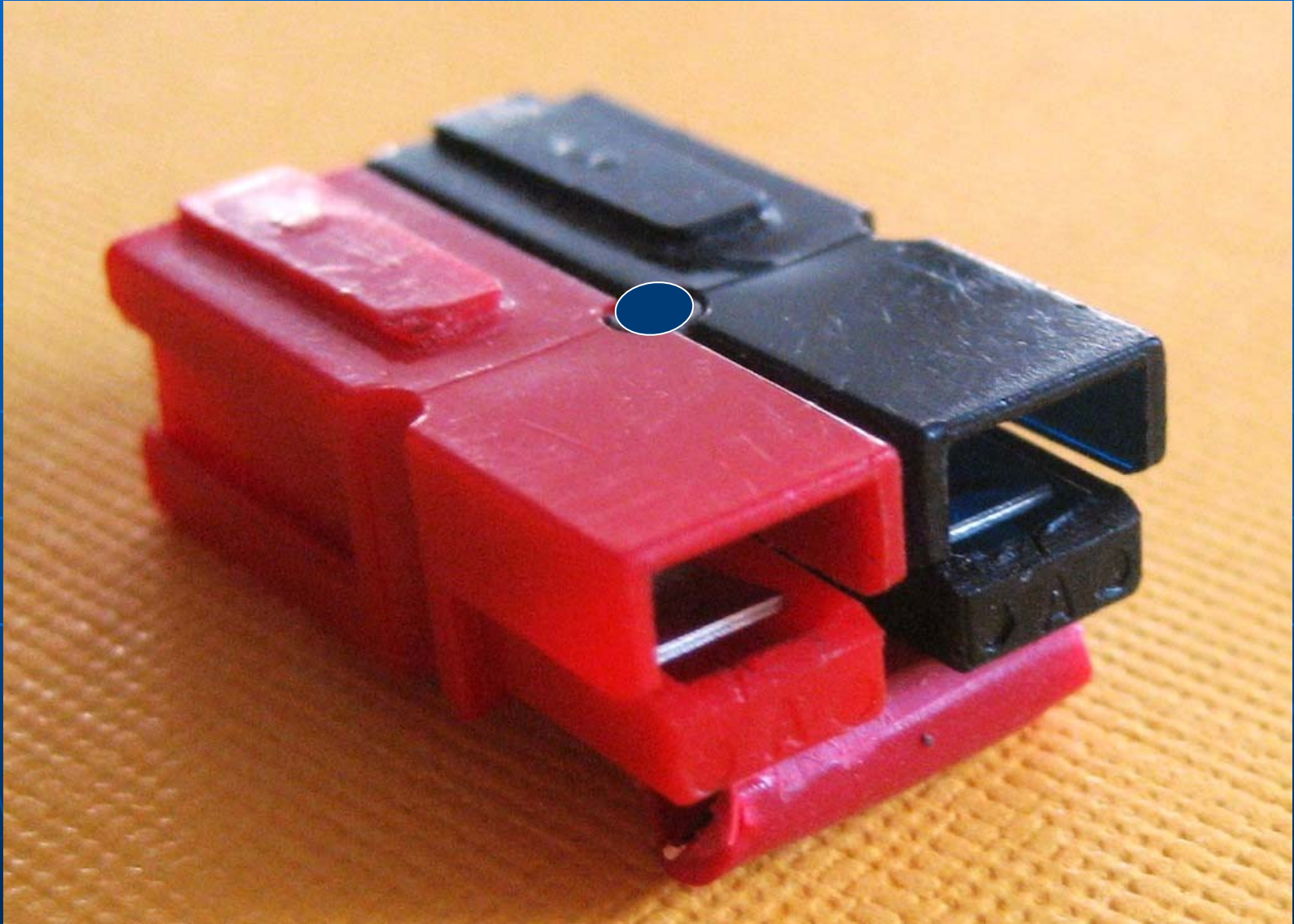
Put the connector housings together before putting the connector pins in, this is easier, especially when using heavy paired wire.



•CAUTION: Assemble housings together correctly on the first try, they fit snugly and can be difficult to get apart.



CORRECTLY ASSEMBLED HOUSINGS



Viewing from the contact side (opposite the wire side), tongue down, hood up, RED on the LEFT, BLACK on the RIGHT.



CONTACTS





Construction Hint

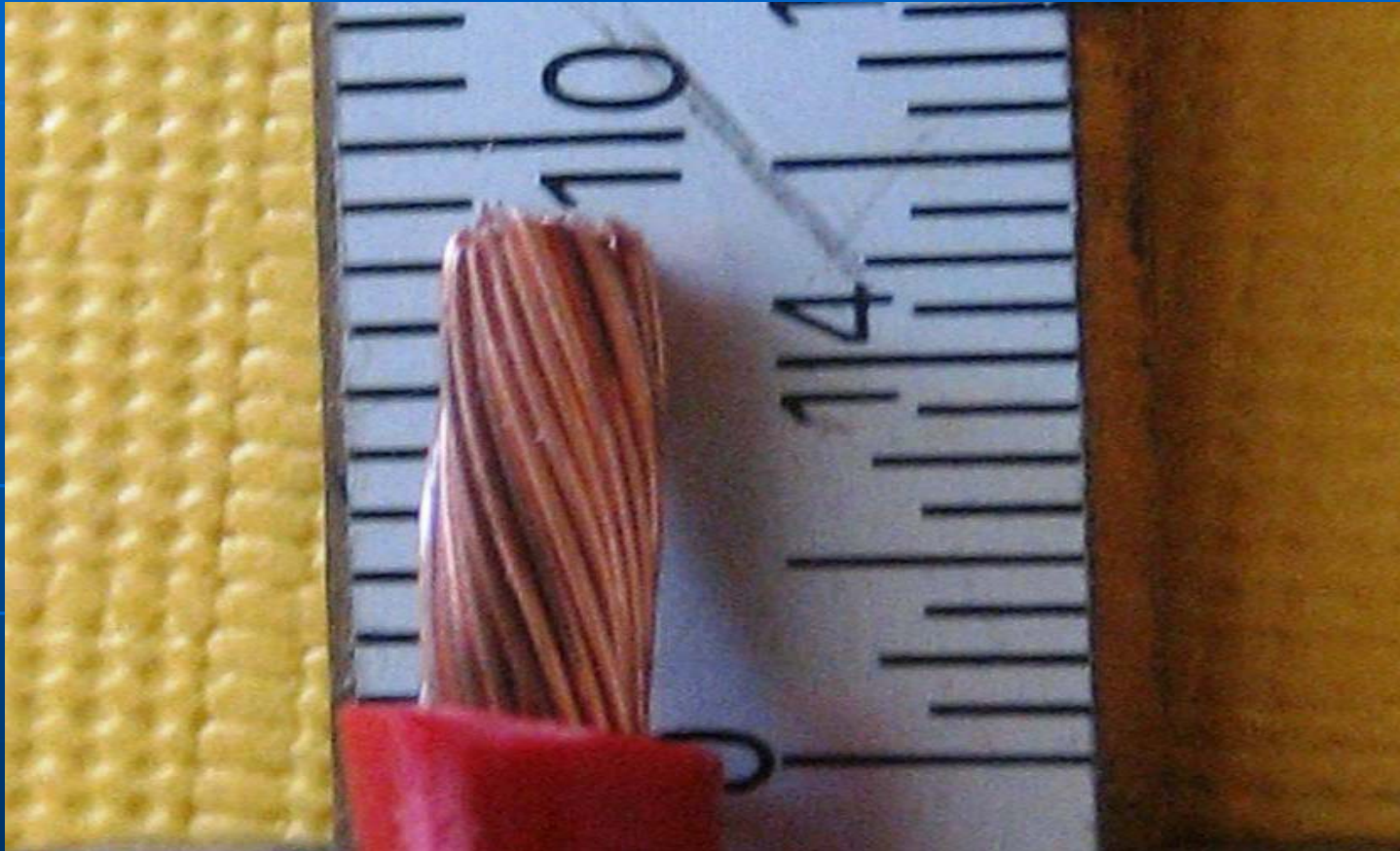


A smaller gage wire (such as this #18 stranded) would fit nicely in a 15 ampere contact. To install in a 30 ampere contact, trim $\frac{3}{4}$ " of insulation and carefully fold over to fit snugly into the contact.





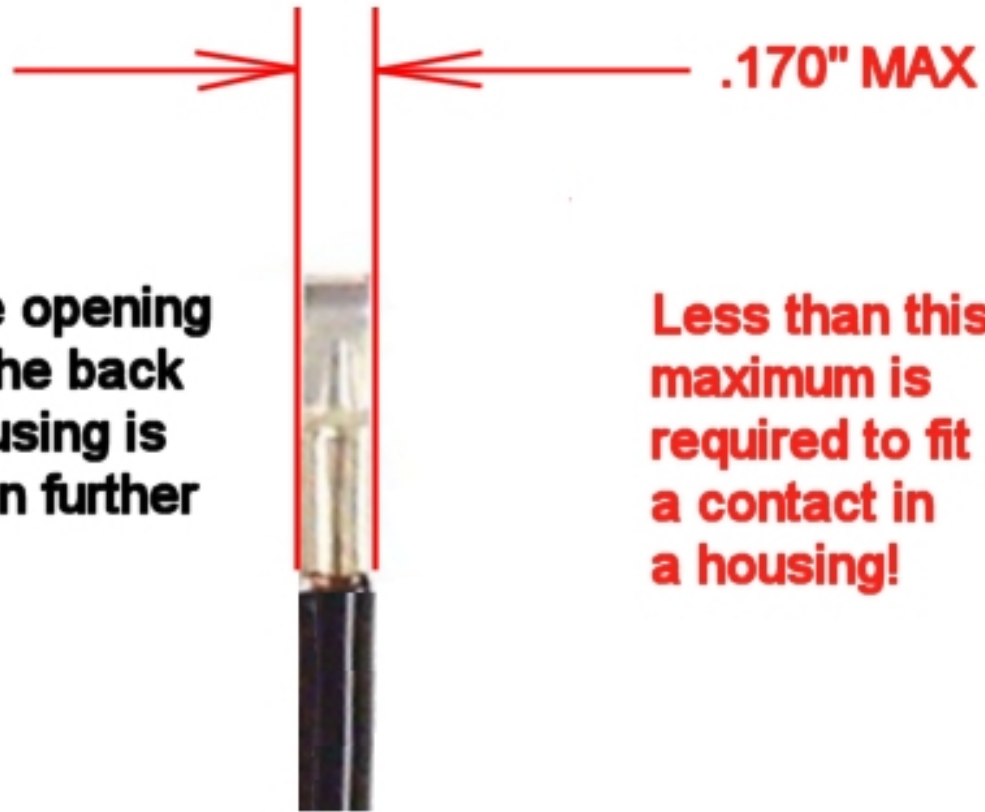
WIRE PREP



TRIM APPROXIMATELY 3/8" OF INSULATION

CRIMPING

Note: The opening towards the back of the housing is larger than further inside.



Less than this maximum is required to fit a contact in a housing!





CRIMPER JAWS





CRIMPING WITH STANDARD CRIMPERS 2 STEP PROCESS



**SEAM AGAINST THE ROUNDED SIDE
OF THE DIE & SLIGHTLY BELOW
FLUSH**



REDUCE THE WIDTH



VERY LIGHT PRESSURE

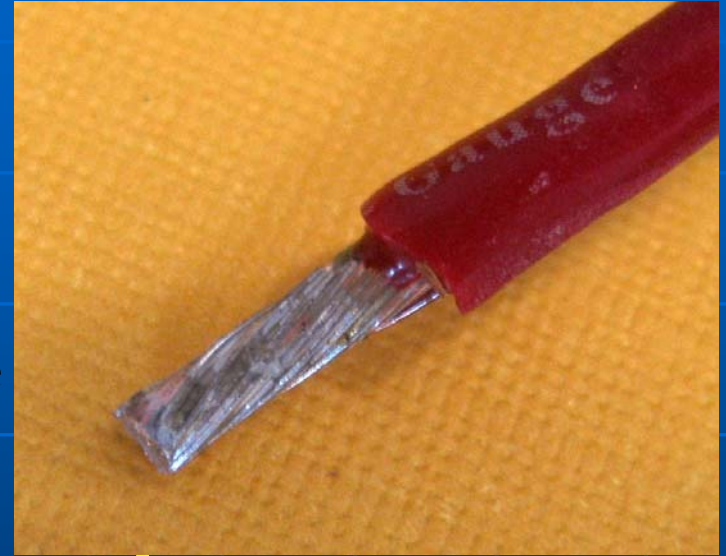


INSERT INTO CONTACT JAW



SOLDERING

- Do not overload the joint with solder.
- Care should be taken that no solder adheres to contact surfaces or outside of well



CONTACT AND WIRE ORIENTATION

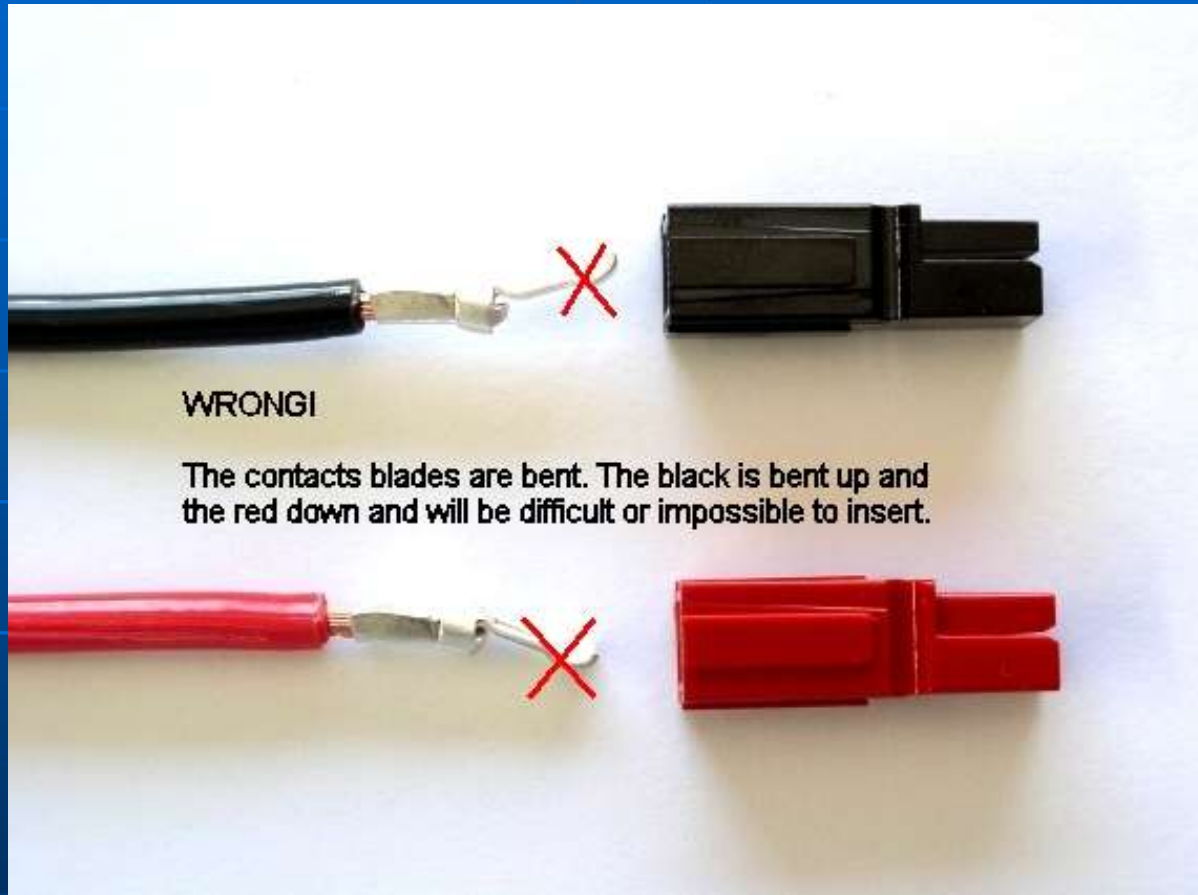
CORRECT!

The contacts are in proper alignment and ready to push in. Listen for a click on each one to make sure they are fully inserted.



Trim note: Insulated wire must be inserted fully into contact body. Minimum bare wire showing

If you don't hear the clicks they are not fully seated, fix them.



WRONG!

The contacts blades are bent. The black is bent up and the red down and will be difficult or impossible to insert.

WRONG!

**Contacts are at an angle
and will be difficult or
impossible to insert.**



CORRECT!

The contacts are in proper alignment and ready to push in. Listen for a click on each one to make sure they are fully inserted.



If you don't hear a click they are not fully seated, fix them.

WRONG!

**Contacts are up side down
in relation to the housings and
the colors are backwards.**





CORRECT!

The contacts are in proper alignment and ready to push in. Listen for a click on each one to make sure they are fully inserted.

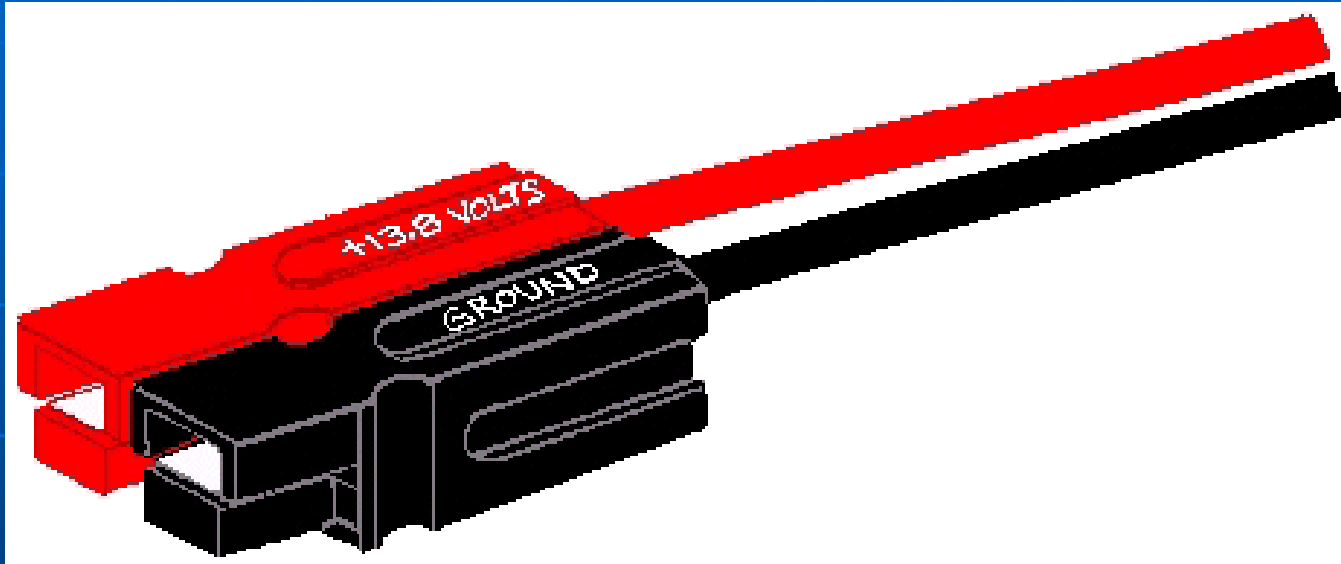


CUTAWAY VIEW



The contacts go in the housings in only one way. The sharp edge is down against the spring.

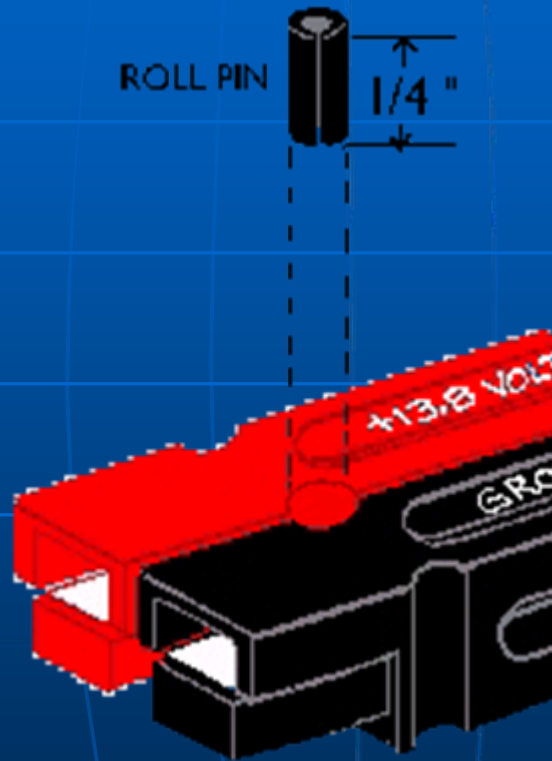
Does it look like this?



Viewing from the contact side (opposite the wire side), tongue down, hood up, RED on the LEFT, BLACK on the RIGHT.



ROLL PINS



MORE INFO

- <http://www.powerwerx.com>
 - Powerpoles accessories, wire, tools, batteries, etc
- <http://reddee2.com>
 - Splitters
- <http://www.westmountainradio.com/>
 - Rigrunner power distribution devices utilizing Powerpoles