



Powerpole® Modular Connector Assembly Sheet

For installation by a qualified electrician in accordance with national and local electrical codes and the following instructions. The suitability of this type of termination must be evaluated by Underwriter's Laboratories, Inc. and Canadian Standard Association for the end use application. Assemble contact to the cables according to the equipment manufacturer's assembly instructions. The following instructions are supplied as a reference.

PLEASE NOTE: Instructions are included with each crimp tool for terminating specific contacts. Use of non-Anderson Power crimp can affect UL & CSA approval. See website for comprehensive tooling data.

<https://www.andersonpower.com/us/en/resources/PowerPoleResourcesPage.html>

Assembly Instructions

- Strip wire to "X" dimension (see figure 1) taking care to avoid nicking or cutting of wire strands. Do not bend or twist strands too sharply.

Connector Series	AMPS	"X" Inches	"X" mm
Powerpole®	15	5/16	7.9
	30	5/16	7.9
	45	5/16	7.9
	75	9/16	14.5
	120	15/16	24
	180	1 1/8	28.6



Figure 1

Termination

- Manufacturer recommends termination by crimping.

a. Crimped

Powerpole® 75, 120, 180A series accept largest wire sizes rated. Smaller wire sizes require reducing bushings, Powerpole® 15, 30, 45, 75A series do not require reducing bushings. Insert wire to the base of contact, then crimp. NOTE: indentation should fall in the middle of the barrel (see figure 2). Use recommend APP® crimp tools only. Crimping by other means may disturb contact position in housing and/or produce high resistance joints.



Figure 2

b. Soldered

Melt rosin flux tin solder into contact well, do not solder-dip contacts or overload the joint with solder. On Powerpole® 15, 75A closed contacts, solder flow should not extend beyond contact wall. On all models, care should be taken that no solder adheres to contact surfaces.

Contact Insertion

Insert contact and wire into the housing from the rear (see figure 3). Position contact as shown (see figure 4) and push forward using insertion/extraction tool Cat. Number 111038G2 for smaller wire sizes in Powerpole® 15, 30, 45, and 75A, so that contact slips under the barrier and snaps over the end of the retaining spring (see figure 5). Tug slightly to make sure contact is locked in place.



Figure 3



Figure 4



Figure 5 — cut away

Contact Removal

Switch off power first. For Powerpole® 120,180A select a screwdriver of appropriate size. Depress spring at front of housing and pull wire out. For Powerpole® 15, 30, 45, 75A, insertion/extraction tool Cat. Number 111038G2. Place one of the forward prongs of the tool between the contact and spring using a rotary motion. Continue rotation while pulling on the wire until the prong causes disengagement of contact from the spring. Withdraw contact from rear of housing (see figure 6).

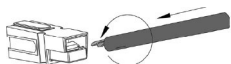


Figure 6

Blocking

1. Hold connector side-by-side in the “hood up” position.
2. Slide the protruding dovetail into the recessed dovetail slot. (see figure 7).
NOTE: fitting is a press fit design and will be tight fitting. Customers can lightly spray white grease spray on dove tail area and use a press or rubber mallet to slot connectors together.
3. Blocking is completed when the front and back of the connectors are even with each other (see figure 8).

Figure 7

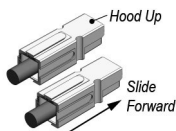
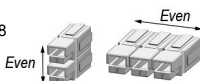


Figure 8



NOTE: Do not use a hammer to slide connectors together.

Connector Usage

1. Do not disconnect under load. Not for interrupting current.
2. Connector halves should not be disconnected by grasping cable leads.
3. For use only in equipment where the acceptability of the combination is determined by UL / CSA or other applicable certification agencies and installed by a qualified electrician.

All Data Subject to Change Without Notice
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