

# Powerpole® Modular Connector Assembly Sheet

For all models: 15, 30, 45, 75, 120 and 180 amperes  
 Singlepole Power Connectors with Single Piece Housings

**CAUTION:** Not For Interrupting Current

## Cross Section View



Insulated Housings • Stainless Steel Springs • Silver and Tin Plated Contacts

| Catalog #<br>(Complete) | Contacts<br>Only | Amps | Voltage<br>AC/DC | Wire Size<br>AWG | mm        | Bushing #<br>(If Required) |
|-------------------------|------------------|------|------------------|------------------|-----------|----------------------------|
| 1395 Series             | 1332             | 15   | 600              | 16-20            | 1.3 – 5   | -----                      |
| 1330 Series             | 1331             | 30   | 600              | 12-16            | 3.3 – 1.3 | -----                      |
| 1345 Series             | 261G2            | 45   | 600              | 10-14            | 5.3 – 2.1 | -----                      |
| 1300 Series             | 5900             | 75   | 600              | 14-16            | 2.1 – 1.3 | 5913                       |
| 1300 Series             | 5900             | 75   | 600              | 10-12            | 5.3 – 3.3 | 5910                       |
| 1300 Series             | 5915             | 75   | 600              | 10-12            | 5.3 – 3.3 | -----                      |
| 1300 Series             | 5900             | 75   | 600              | 8                | 8.3       | 5912                       |
| 1300 Series             | 5900             | 75   | 600              | 6                | 13.3      | -----                      |
| 1320 Series             | 1319             | 120  | 600              | 8                | 8.3       | 5921                       |
| 1320 Series             | 1319             | 120  | 600              | 6                | 13.3      | 5920                       |
| 1320 Series             | 1319G6           | 120  | 600              | 6                | 13.3      | -----                      |
| 1320 Series             | 1319             | 120  | 600              | 4                | 21.1      | 5919                       |
| 1320 Series             | 1319G4           | 120  | 600              | 4                | 21.1      | -----                      |
| 1320 Series             | 1319             | 120  | 600              | 2                | 33.6      | -----                      |
| 1380 Series             | 1382             | 180  | 600              | 10               | 5.2       | 5648                       |
| 1380 Series             | 1382             | 180  | 600              | 6                | 13.3      | 5663                       |
| 1380 Series             | 1382             | 180  | 600              | 4                | 21.1      | 5693                       |
| 1380 Series             | 1384             | 180  | 600              | 4                | 21.1      | -----                      |
| 1380 Series             | 1382             | 180  | 600              | 2                | 33.6      | 5690                       |
| 1380 Series             | 1383             | 180  | 600              | 2                | 33.6      | -----                      |
| 1380 Series             | 1382             | 180  | 600              | 1                | 42.4      | 5687                       |
| 1380 Series             | 1382             | 180  | 600              | 1/0              | 53.5      | -----                      |

## ASSEMBLY

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



Figure 1

| Catalog Numbers | amps | "X" Inches | "X" Millimeters |
|-----------------|------|------------|-----------------|
| 1395 Series     | 15   | 5/16       | 7.9             |
| 1330 Series     | 30   | 5/16       | 7.9             |
| 1345 Series     | 45   | 5/16       | 7.9             |
| 1300 Series     | 75   | 9/16       | 14.5            |
| 1320 Series     | 120  | 15/16      | 24.0            |
| 1380 Series     | 180  | 1 - 1/8    | 28.6            |

## TERMINATION

2. Manufacturer recommends termination by crimping.

- a. **Crimped**

1300, 1320 and 1380 series contacts accept largest wire sizes rated. Smaller wire sizes require reducing bushings, Cat. Numbers 1395, 1330 and 1345 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 Fig. 2). Use recommend 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 1395, 1330 and 1345 Series 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 Fig. 3). Position contact as shown (See Fig. 4) and push forward using insertion / extraction tool Cat. Number 111038G2 for smaller wire sizes in 1345, 1395, 1330, 1300 models so that contact slips under the barrier and snaps over the end of the retaining spring (See Fig. 5). Tug slightly to make sure contact is locked in place.



| <b>Powerpole Crimping Tool</b>                           | <b>Contact Rating</b> | <b>Accommodates Wire Sizes - AWG</b> | <b>mm</b>    | <b>Tool #</b> |
|--|-----------------------|--------------------------------------|--------------|---------------|
| Manual, cycle controlled<br>F-type crimping tool         | 10 amps               | #12 to 16                            | 4.0 to 1.5   | 1309G1        |
| Manual, cycle controlled<br>F-type crimping tool         | 15 - 30 amps          | #12 to 20                            | 4.0 to 0.5   | 1309G2        |
| Pneumatic, cycle controlled<br>F-type crimping tool      | 15 - 30 amps          | #12 to 20                            | 4.0 to 0.5   | 1353G1        |
| Manual, cycle controlled<br>F-type crimping tool         | 45 amps               | #10 to 14                            | 6.0 to 2.0   | 1309G3        |
| Manual, noncycle controlled<br>U-type crimping tool      | 60 or 70 amps         | #6 to 12                             | 16.0 to 4.0  | 1351G3        |
| Manual, cycle controlled<br>F-type crimping tool         | 75 amps               | #6 to 12                             | 16.0 to 4.0  | 1309G4        |
| Pneumatic, cycle controlled<br>4-indent crimping tool    | 75 amps               | #6 to 12                             | 16.0 to 4.0  | 1387G1        |
| Manual, noncycle controlled<br>W-type crimping tool      | 120 amps              | #2 to 6                              | 30.0 to 16.0 | 1351G4        |
| Pneumatic, cycle controlled<br>4-indent crimping tool    | 120 or 180 amps       | #1/0 to 10                           | 50 to 6.0    | 1387G1        |
| Hydraulic, noncycle controlled<br>4-indent crimping tool | 120 or 180 amps       | #1/0 to 10                           | 50 to 6.0    | 1368          |

\* Single pole with maximum wire size.

**NOTE:** For high volume crimping (reeled contacts) sees Anderson catalog or consult factory.

## CONTACT REMOVAL

For 1320 and 1380 series select a screwdriver of appropriate size. Depress spring at front of housing and pull wire out. For 1395, 1330, 1345 and 1300 series, insertion / extraction tool (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 Fig. 6)



Figure 6

## 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.

## PATENT INFORMATION

Powerpole® connectors are patented under one or more of the following patents

Other U.S. and foreign patents pending

U.S.: 3218559; 3259870

Canada: 744,469; 744,470

U.K.: 965,074

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