

# 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 effect UL & CSA approval. See website for comprehensive tooling data.

Powerpole Series	Housing Series	Contact	AWG	mm <sup>2</sup>	Bushing Number
15	1395	1332	20-16	0.5/1.0	N/A
30	1330	1331	16-12	1.0/2.5	N/A
45	1845	1830G1	14-10	1.5/4.0	N/A
45	1345	261G2	14-10	1.5/4.0	N/A
75	1300	5900	16-14	1.0/1.5	5913
75	1300	5900	12-10	2.5/4.0	5910
75	1300	5915	12-10	2.5/4.0	N/A
75	1300	5900	8	6	5912
75	1300	5900	6	10	N/A
75	1300	5952	8	6	N/A
120	1320	1319	8	6	5921
120	1320	1319	6	10	5920
120	1320	1319G6	6	10	N/A
120	1320	1319	4	16	5919
120	1320	1319G4	4	16	N/A
120	1320	1319	2	25	N/A
120	1320	1323G1	1	35	N/A
120	1320	1323G2	1/0	50	N/A
180	1380	1382	10	4	5648
180	1380	1382	6	10	5663
180	1380	1348*	6	10	N/A
180	1380	1382	4	16	5693
180	1380	1384	4	16	N/A
180	1380	1382	2	25	5690
180	1380	1383	2	25	N/A
180	1380	1382	1	35	5687
180	1380	1347	1	35	N/A
180	1380	1382	1	50	N/A
180	1380	1328G1	2/0	70	N/A
180	1380	1328G2	3/0	95	N/A

### ASSEMBLY INSTRUCTIONS

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



Connector Series	amps	"X" inches	"X" mm
1395 Series	15	5/16	7.9
1330 Series	30	5/16	7.9
1845 Series	45	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, 1300, 1845 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 Figure 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 and 1300 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 Figure 3). Position contact as shown (See Figure 4) and push forward using insertion / extraction tool Cat. Number 111038G2 for smaller wire sizes in 1345, 1395, 1330, 1845, 1300 models 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)

Powerpole Crimping Tool (1)	Connector Rating (amps)	Wire Sizes		Tool Part Number
		AWG	mm	
Manual, cycle controlled F-type 1309G6* crimping tool	10	#16-12	1.5-4.0	1309G1
Manual, cycle controlled F-type 1309G6* crimping tool	15-30 amps	#20-12	0.5-4.0	1309G2
Pneumatic, cycle controlled F-type crimping tool	15-30 amps	#20-12	0.5-4.0	1367G1
Manual, cycle controlled F-type 1309G6* crimping tool	45 amps	#14-10	2.0-6.0	1309G3
Manual, cycle controlled U-type crimping tool	75 amps	#16-12	16.0-4.0	1309G4
Pneumatic, cycle controlled 4-indent crimping tool	75 amps	#12-6	4.0-16.0	1387G1
Pneumatic, cycle controlled 4-indent amps crimping tool	120 or 180	3/0-#10	95-6.0	1387G1
Hydraulic, noncycle controlled 4-indent amps crimping tool	120 or 180	3/0-#10	95-6.0	1368

\* For use with superflex wire

- Notes:
1. Use appropriate reducing bushings for smaller cable sizes.
  2. For appropriate crimping die set, see APP® website tooling chart.
  3. For high volume crimping (reeled contacts), see APP® website tooling chart.

## CONTACT REMOVAL

Switch off power first. For 1320 and 1380 series select a screwdriver of appropriate size. Depress spring at front of housing and pull wire out. For 1395, 1330, 1845, 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 Figure 6)

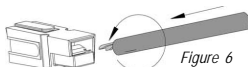


Figure 6

## 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 and installed by a qualified electrician.

## 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 "Powerpole," and Anderson Power Products\* are registered U.S. and foreign trademarks of Anderson Power Products, 13 Pratts Junction Road, Sterling, MA 01564-2305 USA [www.andersonpower.com](http://www.andersonpower.com)