

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.

Catalog #	Contact	Amps	Volts	Wire Size AWG	mm ²	Bushing #
1395 Series	1332	15	600	20-16	0.5/1.0	N/A
1330 Series	1331	30	600	16-12	1.0/2.5	N/A
1845 Series	1830G1	45	600	14-10	1.5/4.0	N/A
1345 Series	261G2	45	600	14/10	1.5/4.0	N/A
1300 Series	5900	75	600	16-14	1.0/1.5	5913
1300 Series	5900	75	600	12-10	2.5/4.0	5910
1300 Series	5915	75	600	12-10	2.5/4.0	N/A
1300 Series	5900	75	600	8	6	5912
1300 Series	5900	75	600	6	10	N/A
1300 Series	5952	75	600	8	6	N/A
1320 Series	1319	120	600	8	6	5921
1320 Series	1319	120	600	6	10	5920
1320 Series	1319G6	120	600	6	10	N/A
1320 Series	1319	120	600	4	16	5919
1320 Series	1319G4	120	600	4	16	N/A
1320 Series	1319	120	600	2	25	N/A
1380 Series	1382	180	600	10	4	5648
1380 Series	1382	180	600	6	10	5663
1380 Series	1382	180	600	4	16	5693
1380 Series	1384	180	600	4	16	N/A
1380 Series	1382	180	600	2	25	5690
1380 Series	1383	180	600	2	25	N/A
1380 Series	1382	180	600	1	35	5687
1380 Series	1382	180	600	1/0	50	N/A
1380 Series	1347	180	600	1	35	N/A
1380 Series	1348	180	600	6*	10	N/A

* Thin wall contact

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

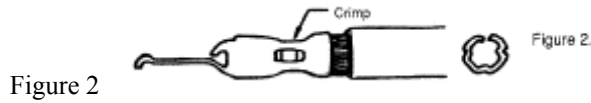
Figure 1	Connector Series	Amps	"X" inches	"X" mm
	1395 Series	15	5/13	7.9
	1330 Series	30	5/16	7.9
	1845 Series	45	5/16	7.9
	1345 Series	45	5/16	7.9
	1300 Series	75	9/16	14.5
	1320 Series	120	15/16	24.0
	1380 Series	180	1 - 1/8	28.6

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.

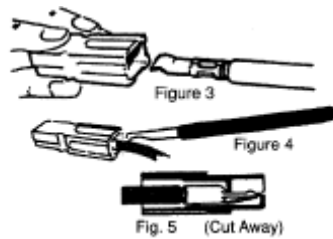


b. Soldered

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.



PP Crimping Tool (1)	Connector Rating (amps)	Wire Sizes		Tool Part Number
		AWG	mm	
Manual, cycle controlled F-type crimping tool	10	#16-12	1.5-4.0	1309G1 1309G6*
Manual, cycle controlled F-type crimping tool	15-30 amps	#20-12	0.5-4.0	1309G2 1309G6*
Pneumatic, cycle controlled F-type crimping tool	15-30 amps	#20-12	0.5-4.0	1367G1
Manual, cycle controlled F-type crimping tool	45 amps	#14-10	2.0-6.0	1309G3 1309G6*
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 crimping tool	120 or 180 amps	#1/0-10	50-6.0	1387G1
Hydraulic, noncycle controlled 4-indent crimping tool * For use with superflex wire	120 or 180 amps	#1/0-10	50-6.0	1368

- 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)



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

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