

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



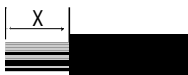
					Wire Size		
Catalog #		Contact	Amps	Volts	AWG	m m	Bushing #
1395	Series	1332	15	600	20-16	5-1.3	N/A
1330	Series	1331	30	600	16-12	1.3-3.3	N/A
1345	Series	261G2	45	600	14-10	2.1-5.3	N/A
1300	Series	5900	75	600	16-14	1.3-2.1	5913
1300	Series	5900	75	600	12-10	3.3-5.3	5910
1300	Series	5915	75	600	12-10	3.3-5.3	N/A
1300	Series	5900	75	600	8	8.3	5912
1300	Series	5900	75	600	6	13.3	N/A
1300	Series	5952	75	600	8	8.3	N/A
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	N/A
1320	Series	1319	120	600	4	21.1	5919
1320	Series	1319G4	120	600	4	21.1	N/A
1320	Series	1319	120	600	2	33.6	N/A
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	N/A
1380	Series	1382	180	600	2	33.6	5690
1380	Series	1383	180	600	2	33.6	N/A
1380	Series	1382	180	600	1	42.4	5687
1380	Series	1382	180	600	1/0	53.5	N/A
1380	Series	1347	180	600	1	42.4	N/A
1380	Series	1348	180	600	6*	13.3	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



Connector Series	amps	"X" inches	"X" mm
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

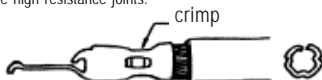
TERMINATION

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 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, 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 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, 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)

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
Manual, cycle controlled F-type 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 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 crimping tool	120 or 180 amps	#1/0-10	50-6.0	1387G1
Hydraulic, noncycle controlled 4-indent crimping tool	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, 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
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