

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. Powerpoles are stackable and color-coded for easy customization into multipole blocks.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous AC or DC operation. Wire sizes range from #2 to #8 AWG (33.6 to 8.4 mm<sup>2</sup>). Low-detent contacts are also offered for low insertion/withdrawal force applications.

## FEATURES

### • Flat wiping contact system

*Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection*

### • Colored modular housings

*Provides visual identification of proper mating connector*

### • Molded-in dovetails

*Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations*



## PRODUCT SPECIFICATIONS

| Connector Model                                    | PP120       | Connector Model                            | PP120        |
|----------------------------------------------------|-------------|--------------------------------------------|--------------|
| UL Current Rating (Amperes)*                       | 120*        | Life                                       |              |
| UL Voltage Ratings (Volts)**                       | 600*        | a. No load (Contact/Disconnect Cycles)     | To 10,000    |
| Contact Barrel Wire Size (AWG)                     | #2 to #8    | b. Under Load (Hot Plug 250 cycles @ 120V) | 60A          |
| (mm <sup>2</sup> )                                 | 33.6 to 8.4 | Avg. Connection/Disconnect (lbs)           | 8            |
| Maximum Wire Insulation Diameter (inches)          | 0.600       | Operating Temperature Range °C***          | -20° to 105° |
| (mm)                                               | 15.24       | °F                                         | -4° to 221°  |
| AVG Contact Resistance* (micro-ohms)               | 136         | Flammability Rating of Housing Material    | UL94 V-0     |
| Insulation Withstanding Test Voltage (Volts AC/DC) | 2200        |                                            |              |
| Contact Retention Force (lbs)                      | 100         |                                            |              |

\* UL Rated for 65°C rated wire or cable size

\*\* Both AC & DC Voltage

\*\*\* Contact factory for higher temperature rated connectors

## ORDERING INFORMATION

### Housing & 120 amp Contact

| Part Number | Housing Color | Wire AWG | sq. mm |
|-------------|---------------|----------|--------|
| 1320        | Blue          | #2       | 33.6   |
| 1320G1      | Black         | #2       | 33.6   |
| 1320G2      | White         | #2       | 33.6   |
| 1320G3      | Red           | #2       | 33.6   |
| 1320G4      | Green         | #2       | 33.6   |

### 120 amp Contacts

| Part Number | Description                 | Wire AWG | sq. mm |
|-------------|-----------------------------|----------|--------|
| 1319        | Individual, low detent      | #2       | 33.6   |
| 1319G4      | Individual, low detent      | #4       | 21.2   |
| 1319G6      | Individual, low detent      | #6       | 13.3   |
| 6811G4*     | Contact set (2), low detent | #6       | 13.3   |
| 6811G5*     | Contact set (2), low detent | #4       | 21.2   |
| 6811G6*     | Contact set (2), low detent | #2       | 33.6   |

### Housings Only

| Part Number | Description   |
|-------------|---------------|
| 1321        | Blue housing  |
| 1321G1      | Black housing |
| 1321G2      | White housing |
| 1321G3      | Red housing   |
| 1321G4      | Green housing |

### Bushings

| Part Number | Description   | Wire AWG | sq. mm    |
|-------------|---------------|----------|-----------|
| 5919        | Use with 1319 | #2 to #4 | 33.6/21.2 |
| 5920        | Use with 1319 | #2 to #6 | 33.6/13.3 |
| 5921        | Use with 1319 | #2 to #8 | 33.6/8.4  |

### Accessories

| Part Number | Description                                |
|-------------|--------------------------------------------|
| 110G18      | Retaining Pins, 2 high block of connectors |
| 110G19      | Retaining Pins, 1 high block of connectors |
| 110G20      | Retaining Pins, 2 high block of connectors |

### Tooling

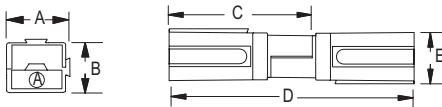
| Part Number | Description              |
|-------------|--------------------------|
| 1368        | Hydraulic tool, #2 to #8 |
| 1387G1      | Pneumatic tool, #2 to #8 |
| 1388G4      | - die for #2 to #8       |
| 1389G4      | - locator #2 to #8       |

\* offers lower extraction forces than our 1319 series.

## DIMENSIONS

### Powerpole® Housing

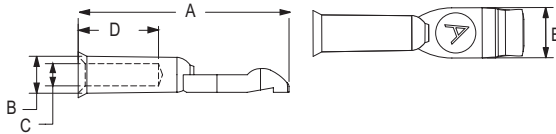
| Series | -A-<br>mm in. | -B-<br>mm in. | -C-<br>mm in. | -D-<br>mm in. | -E-<br>mm in. |
|--------|---------------|---------------|---------------|---------------|---------------|
| PP120  | 22.2 .88      | 22.2 .88      | 69.9 2.75     | 117.5 4.63    | 23.7 0.94     |



### Contact

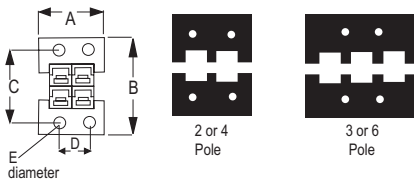
| Part Number | -A-<br>mm in. | -B-<br>mm in. | -C-<br>mm in. | -D-<br>mm in. | -E-<br>mm in. |
|-------------|---------------|---------------|---------------|---------------|---------------|
| 1319        | 50.8 2.00     | 11.1 0.44     | 8.7 0.34      | 21.6 0.85     | 10.4 0.41     |
| 1319G4      | 50.8 2.00     | 11.1 0.44     | 7.5 0.30      | 21.6 0.85     | 10.4 0.41     |
| 1319G6      | 50.8 2.00     | 11.1 0.44     | 5.6 0.22      | 21.6 0.85     | 10.4 0.41     |
| 6811G4*     | 50.8 2.00     | 11.1 0.44     | 5.6 0.22      | 21.6 0.85     | 10.4 0.41     |
| 6811G5*     | 50.8 2.00     | 11.1 0.44     | 7.5 0.30      | 21.6 0.85     | 10.4 0.41     |
| 6811G6*     | 50.8 2.00     | 11.1 0.44     | 8.7 0.34      | 21.6 0.85     | 10.4 0.41     |

\*Offers lower extraction forces than our 1319 series.



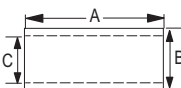
### Mounting Clamps

| Part Number | -A-<br>mm in. | -B-<br>mm in. | -C-<br>mm in. | -D-<br>mm in. | -E-<br>mm in. | Number of Poles |
|-------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| 1464G1      | 60.5 2.38     | 47.7 1.88     | 38.1 1.50     | 44.5 1.75     | 4.0 0.16      | (2 Pole)        |
| 1464G1      | 60.5 2.38     | 70.0 2.75     | 60.3 2.37     | 44.5 1.75     | 4.0 0.16      | (4 Pole)        |
| 1464G2      | 82.6 3.25     | 47.7 1.88     | 38.1 1.50     | 66.7 2.63     | 4.0 0.16      | (3 Pole)        |
| 1464G2      | 82.6 3.25     | 70.0 2.75     | 60.3 2.37     | 66.7 2.63     | 4.0 0.16      | (6 Pole)        |



### Bushings - (for use with 1319 contacts)

| Part Number | Reduces From | -A-<br>mm in. | -B-<br>mm in. | -C-<br>mm in. |
|-------------|--------------|---------------|---------------|---------------|
| 5919        | #2 to #4 AWG | 21.3 .84      | 8.4 .33       | 7.2 .29       |
| 5920        | #2 to #6 AWG | 21.3 .84      | 8.4 .33       | 5.8 .23       |
| 5921        | #2 to #8 AWG | 21.3 .84      | 8.4 .33       | 4.6 .18       |



## TEMPERATURE RISE CHARTS

