

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #6 to #16 AWG (13.3 to 1.3 mm²). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype, low volume and high volumes products. 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 | PP75 | Connector Model | PP75 |
|--|-------------|--|--------------|
| UL Current Rating (Amperes)* | 75* | Life | |
| UL Voltage Ratings (Volts)** | 600* | a. No load (Contact/Disconnect Cycles) | To 10,000 |
| Contact Barrel Wire Size (AWG) | #6 to #16 | b. Under Load (Hot Plug 250 cycles @ 120V) | 50A |
| (mm) | 13.3 to 1.3 | Avg. Connection/Disconnect (lbs) | 7 |
| Maximum Wire Insulation Diameter (inches) | 0.437 | Operating Temperature Range °C*** | -20° to 105° |
| (mm) | 11.10 | °F | -4° to 221° |
| AVG Contact Resistance* (micro-ohms) | 200 | Flammability Rating of Housing Material | UL94 V-0 |
| Insulation Withstanding Test Voltage (Volts AC/DC) | 2200 | | |
| Contact Retention Force (lbs) | 50 | | |

* UL Rated for 75°C rated wire or cable size
** Both AC & DC Voltage
*** Contact factory for higher temperature rated connectors

ORDERING INFORMATION

Housing & 75 amp Contact

| Part Number | Housing Color | Wire | |
|-------------|---------------|------|--------|
| | | AWG | sq. mm |
| 1300 | Blue | #6 | 13.3 |
| 1300G2 | Green | #6 | 13.3 |
| 1300G3 | Red | #6 | 13.3 |
| 1300G4 | Black | #6 | 13.3 |
| 1300G5 | White | #6 | 13.3 |

75 amp Contacts

| Part Number | Description | Wire | |
|-------------|---------------------------|--------|----------|
| | | AWG | sq. mm |
| 1307 | Individual, low detent | #6 | 13.3 |
| 5900 | Individual, high detent | #6 | 13.3 |
| 5914 | Individual, high detent | #10 | 5.3 |
| 5915 | Individual, high detent | #10/12 | 5.3/3.3 |
| 5952 | Individual, high detent | #8 | 8.4 |
| 5953 | Individual, low detent | #10/12 | 5.3/3.3 |
| 904G1 | Set of (2) 5915 Contacts | #10/12 | 5.3/3.3 |
| 903G1 | Set of (2) 5900 Contacts | #6 | 13.3 |
| 904G1 | Set of (2) 5915 Contacts | #10/12 | 5.3/3.3 |
| 903G1 | Set of (2) 5900 Contacts | #6 | 13.3 |
| 265G1 | Reel, high detent, silver | #6/8 | 13.3/8.4 |

contacts continued

| Part Number | Description | Wire | |
|-------------|---------------------------|--------|----------|
| | | AWG | sq. mm |
| 265G2* | Reel, high detent, silver | #10/12 | 5.3/3.3 |
| 265G3 | Reel, low detent, silver | #6/8 | 13.3/8.4 |
| 265G4* | Reel, low detent, silver | #10/12 | 5.3/3.3 |
| 265G5 | Reel, high detent, tin | #6/8 | 13.3/8.4 |
| 265G6** | Reel, high detent, tin | #10/12 | 5.3/3.3 |
| 265G7 | Reel, low detent, tin | #6/8 | 13.3/8.4 |
| 265G8** | Reel, low detent, tin | #10/12 | 5.3/3.3 |
| 75BBS | 75 amp bus bar contact | N/A | N/A |

Housings Only

| Part Number | Description |
|-------------|---------------|
| | |
| 5916G4 | Black housing |
| 5916G5 | White housing |
| 5916G6 | Green housing |
| 5916G7 | Red housing |

* Using 10/12 AWG wire reduces rating to 50 amps

** Using 10/12 AWG wire reduces rating to 40 amps

Accessories

| Part Number | Description |
|-------------|--|
| 110G18 | Retaining Pins, 2 high block of connectors |
| 110G19 | Retaining Pins, 1 high block of connectors |
| 1399G20 | Mounting wing blue, round hole |
| 1399G7 | Mounting wing blue, oval hole |
| 1463G1 | 2 & 4 pole mounting clamp set |
| 1463G2 | 3 & 6 pole mounting clamp set |
| 110G57 | Lock nut for use with bus bar contact |

Bushings

| Part Number | AWG | Wire sq. mm |
|-----------------------|--------------|-----------------|
| Use with 5900 or 1307 | | |
| 5910 | #6 to #10/12 | 13.3 to 5.3/3.3 |
| 5912 | #6 to #8 | 13.3 to 8.4 |
| 5913 | #6 to #8 | 13.3 to 2.1/1.3 |

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ORDERING INFORMATION

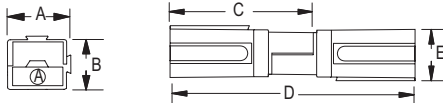
Tooling

| Part Number | Description |
|-------------|---|
| 1309G4 | Hand tool, #16 to #6 |
| 1387G1 | Pneumatic tool, #16 to #6 |
| 1388G6 | - die for #16 to #6 AWG |
| 1388G7 | - die for #10 to #12 AWG (5914, 5915 & 5953 contacts) |
| 1389G6 | - locator for #16 to #6 AWG |
| 1389G7 | - locator for #10 to #12 AWG (5914, 5915 & 5953 contacts) |
| 260G16 | Applicator only (110V & 220V) |
| 284G1 | Applicator & Press (220V, 50Hz) |
| 250G5 | Press only (110V, 60Hz) |

DIMENSIONS

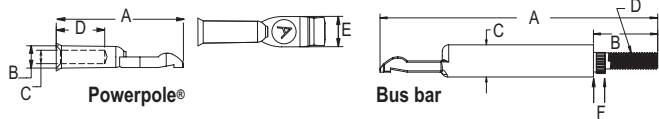
Powerpole® Housings

| Series | -A- mm in. | -B- mm in. | -C- mm in. | -D- mm in. | -E- mm in. |
|--------|------------|------------|------------|------------|------------|
| PP75 | 15.9 .63 | 15.9 .63 | 47.6 1.88 | 81.4 3.20 | 17.0 0.67 |



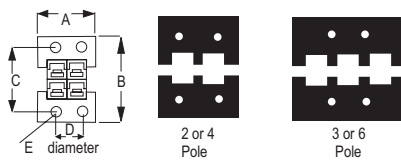
Contacts

| Part Number | -A- mm in. | -B- mm in. | -C- mm in. | -D- mm in. | -E- mm in. | -F- mm in. |
|-------------|------------|------------|------------|-------------|------------|------------|
| 1307 | 30.0 1.18 | 7.2 0.28 | 5.6 0.22 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 5900 | 30.0 1.18 | 7.2 0.28 | 5.6 0.22 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 5914 | 29.7 1.17 | 4.8 0.19 | 3.5 0.14 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 5915 | 30.0 1.18 | 7.2 0.28 | 3.5 0.14 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 5952 | 30.0 1.18 | 7.2 0.28 | 4.7 0.19 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 5953 | 30.0 1.18 | 7.2 0.28 | 3.5 0.14 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 904G1 | 30.0 1.18 | 7.2 0.28 | 3.5 0.14 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 903G1 | 30.0 1.18 | 7.2 0.28 | 5.6 0.22 | 11.4 0.45 | 7.1 0.28 | N/A N/A |
| 265G1 | 31.8 1.25 | 9.1 0.36 | 9.1 0.36 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G2 | 31.8 1.25 | 7.4 0.29 | 6.9 0.27 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G3 | 31.0 1.22 | 9.1 0.36 | 9.1 0.36 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G4 | 31.0 1.22 | 7.4 0.29 | 6.9 0.27 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G5 | 31.8 1.25 | 9.1 0.36 | 9.1 0.36 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G6 | 31.8 1.25 | 7.4 0.29 | 6.9 0.27 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G7 | 31.0 1.22 | 9.1 0.36 | 9.1 0.36 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 265G8 | 31.0 1.22 | 7.4 0.29 | 6.9 0.27 | 22.9 0.90 | 8.1 0.32 | N/A N/A |
| 75BBS | 68.6 2.70 | 17.0 0.67 | 6.9 0.27 | #10-24 thd. | 1.0 0.04 | 2.0 0.08 |

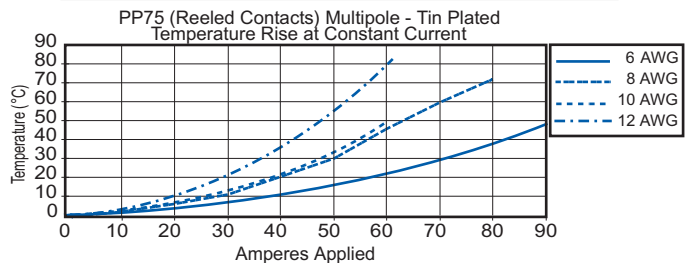
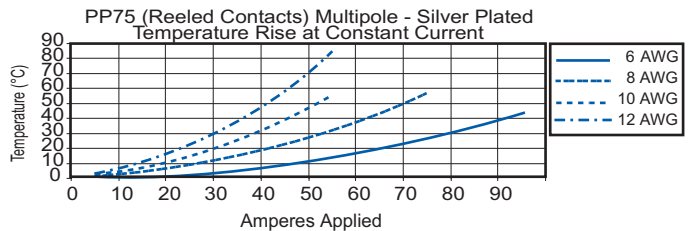
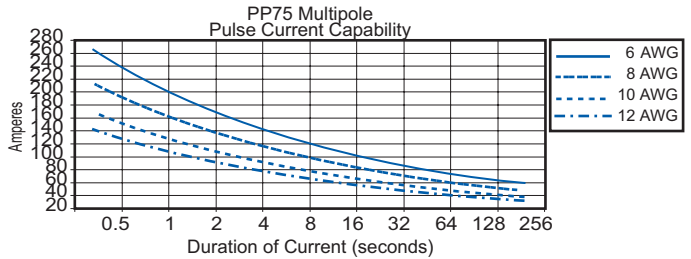
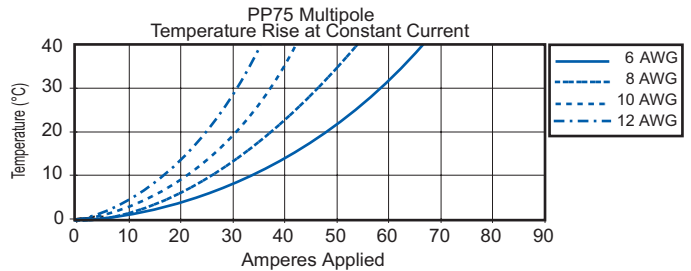
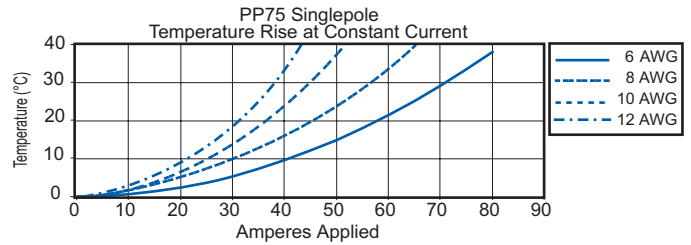


Mounting Clamps

| Part Number | -A- mm in. | -B- mm in. | -C- mm in. | -D- mm in. | -E- mm in. | Number of Poles |
|-------------|------------|------------|------------|------------|------------|-----------------|
| 1463G1 | 41.1 1.62 | 34.7 1.37 | 27.1 1.07 | 31.8 1.25 | 4.0 0.16 | (2 Pole) |
| 1463G1 | 41.1 1.62 | 50.7 2.00 | 43.1 1.70 | 31.8 1.25 | 4.0 0.16 | (4 Pole) |
| 1463G2 | 57.2 2.25 | 34.7 1.37 | 27.1 1.07 | 47.6 1.88 | 4.0 0.16 | (3 Pole) |
| 1463G2 | 57.2 2.25 | 50.7 2.00 | 43.1 1.70 | 47.6 1.88 | 4.0 0.16 | (6 Pole) |



TEMPERATURE RISE CHARTS



Bushings - (for use with 5900 or 1307)

| Part Number | Reduces From | -A- mm in. | -B- mm in. | -C- mm in. |
|-------------|------------------|------------|------------|------------|
| 5910 | #6 to #10-12 AWG | 11.9 .47 | 5.4 .21 | 3.5 .14 |
| 5912 | #6 to #8 AWG | 11.4 .45 | 5.4 .21 | 4.6 .18 |
| 5913 | #6 to #14-16 AWG | 11.9 .47 | 5.4 .21 | 2.4 .09 |

