

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

The housings are modular. They provide 600 Volts continuous, AC or DC operation. Wire sizes range from #14 to #16 AWG (2.1 to 1.3 mm<sup>2</sup>). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype, low volume and high volumes products.

## FEATURES

- **Make-first/Break-last connection**

*Provides safety and system integrity*

- **Green housing**

*Visual indication of ground terminal*

- **Molded-in dovetails**

*Can be assembled with standard Powerpole PP15, Powerpole PP30 and Powerpole PP45 connectors to make pre-grounded multipole configurations*



## PRODUCT SPECIFICATIONS

| Connector Model                                    | PP10 P & S | Connector Model                         | PP10 P & S   |
|----------------------------------------------------|------------|-----------------------------------------|--------------|
| UL Current Rating (Amperes)*                       | 10*        | No load (Contact/Disconnect Cycles)     | To 250       |
| UL Voltage Ratings (Volts)**                       | 600*       | Avg. Connection/Disconnect (lbf)        | 5            |
| Contact Barrel Wire Size (AWG)                     | #14 to #16 | Operating Temperature Range °C***       | -20° to 105° |
| (mm <sup>2</sup> )                                 | 2.1 to 1.3 | °F                                      | -4° to 221°  |
| Maximum Wire Insulation Diameter (inches)          | 0.137      | Flammability Rating of Housing Material | UL94 V-0     |
| (mm)                                               | 3.48       |                                         |              |
| AVG Contact Resistance* (micro-ohms)               | 2200       |                                         |              |
| Insulation Withstanding Test Voltage (Volts AC/DC) | 2200       |                                         |              |
| Contact Retention Force (lbf)                      | 25         |                                         |              |



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

\*\* Both AC & DC Voltage

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

## ORDERING INFORMATION

### Housing & 10 amp Contact

| Part Number | Housing Color | Wire AWG | sq. mm  |
|-------------|---------------|----------|---------|
| 1200G1      | Socket, Green | 14/16    | 2.1/1.3 |
| 1201G1      | Pin, Green    | 14/16    | 2.1/1.3 |

### Housings Only

| Part Number | Description           |
|-------------|-----------------------|
| 1204G1      | Green housing, socket |
| 1205G1      | Green housing, pin    |

### Tooling

| Part Number | Description                       |
|-------------|-----------------------------------|
| 1309G1      | Hand tool, #14 to #16             |
| 260G3       | Applicator only (110V & 220V)     |
| 280G2       | Applicator and press (110V, 60Hz) |
| 250G1       | Press only (110V, 60Hz)           |
| 250G2       | Press only (220V, 50Hz)           |

### 10 amp Contacts

| Part Number | Description        | Wire AWG | sq. mm  |
|-------------|--------------------|----------|---------|
| 1202G1      | Socket, Individual | 14/16    | 2.1/1.3 |
| 264G1       | Socket, Reel       | 14/16    | 2.1/1.3 |
| 1203G1      | Pin, Individual    | 14/16    | 2.1/1.3 |
| 263G1       | Pin, Reel          | 14/16    | 2.1/1.3 |

Note: For additional colors please contact customer service

**HEADQUARTERS:** 13 Pratts Junction Road, P.O. Box 579, Sterling, MA 01564 T:978-422-3600 F:978-422-3700

**EUROPE:** Rathealy Road, Fermoy Co. Cork, Ireland T:353-(0)25-32277 F:353-(0)25-32296

**ASIA/PACIFIC:** IDEAL Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T:852-2636-0836 F:852-2635-9036

**CHINA:** IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou W. Ind. Par, Songgang Baoan District, Shenzhen, PR. China 51810 T: 86-755-2768-2118 F: 86-755-2768-2218

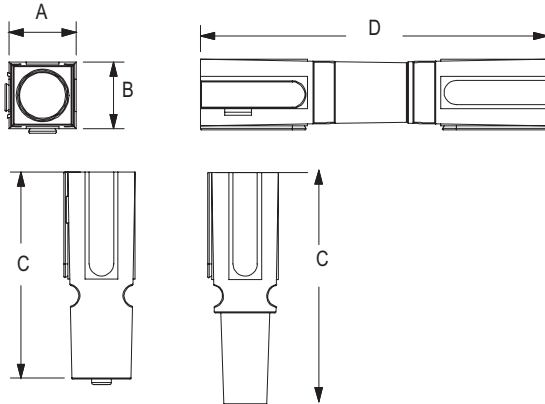
**TAIWAN:** IDEAL Anderson Asia Pacific Ltd., Taiwan Branch, 4F-2, No.116, Dadun 20th St., Situn District, Taichung City 407, Taiwan (R.O.C.) T: 886-4-2310-6451 F:886-4-2310-6460

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## DIMENSIONS

### Housings

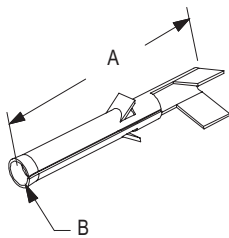
| Series      | -A-<br>mm in. |      | -B-<br>mm in. |      | -C-<br>mm in. |       | -D-<br>mm in. |      |
|-------------|---------------|------|---------------|------|---------------|-------|---------------|------|
| PP10 Pin    | 7.9           | 0.31 | 7.9           | 0.31 | 24.5          | 0.97  | 41.3          | 1.63 |
| PP10 Socket | 7.9           | 0.31 | 7.9           | 0.31 | 27.5          | 1.081 | 41.3          | 1.63 |



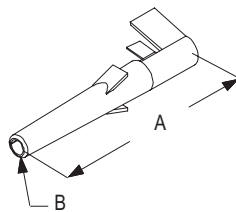
### Contacts

| Series      | -A-<br>mm in. |      | -B-<br>mm in. |            |
|-------------|---------------|------|---------------|------------|
| PP10 Pin    | 22.4          | 0.88 | 2.4           | 0.093 - OD |
| PP10 Socket | 22.4          | 0.88 | 2.3           | 0.089 - ID |

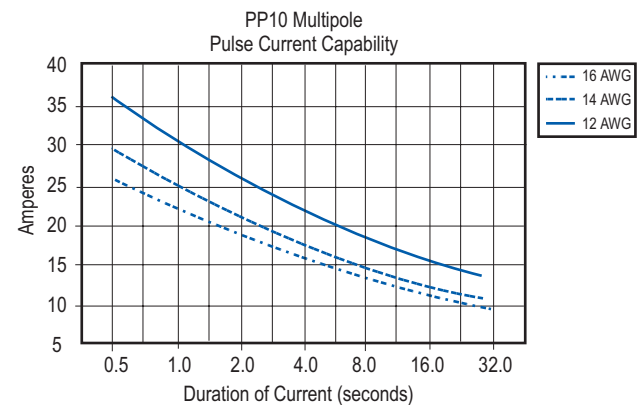
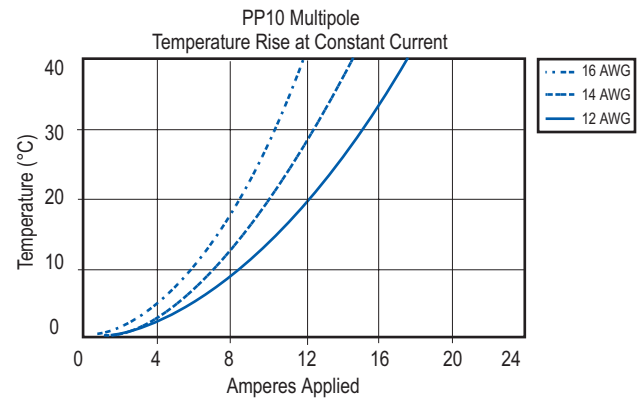
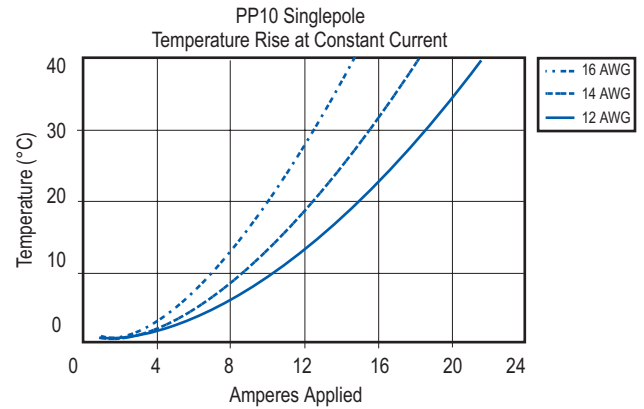
#### Socket Contact



#### Pin Contact



## TEMPERATURE RISE CHARTS



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File No. E26226

All Data Subject To Change Without Notice

DS-PP10PS REV04

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