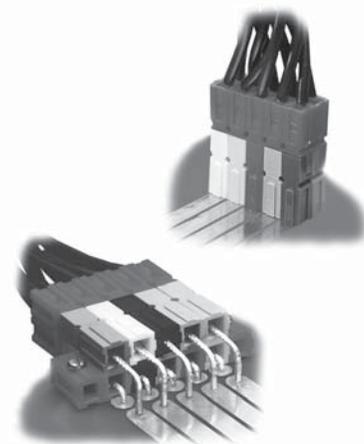


Anderson Power Products® printed circuit board (PCB) contact series, when utilized with the Powerpole® 15/45 connector housings, provides a reliable wire to printed circuit board connection. They are rated at 25 amps, 600 volts, AC/DC. This contact is available in both straight and right angle terminations for perpendicular and parallel mounting and is ideal for all applications that require high current connections to the PCB.

## FEATURES

- **Straight & right angle terminals**  
*Flexibility of parallel or perpendicular mounting to the PCB*
- **Tin plated copper contacts**  
*Minimal contact resistance at high currents*
- **Fits standard housing & accessories**  
*Allows for configurations that can be color coded & polarized*
- **Two level right angle contacts**  
*Dual level right angle powerpole assemblies provide high power density*



## PRODUCT SPECIFICATIONS

|  |                         |   |   |
|--|-------------------------|---|---|
| Connector Model                        | 25A PCB                 | PCB traces  | See temperature curve or contact the factory            |
| Current rating for a single mated pair | 25 amps *               | Housing material  | Polycarbonate 94 V-0(Max. op. temp. = 105°C / 221°F)    |
| Maximum operating voltage AC/DC        | 600 volts               |   | Operating temp. = ambient temp. + temp. rise at current |
| Contact material                       | Tin plated copper alloy |  <p>* See Temperature Rise Chart. Based on 0.002 in<sup>2</sup> copper foil on PCB &amp; 12AWG wire cross-section.</p> |   |
| PCB hole (inches)                      | .070 hole               |   |   |
| PCB hole (mm)                          | 1.80                    |   |   |

## ORDERING INFORMATION

### 25 amp Right Angle PCB Contact\*

| Part Number | Description      | Contact Length |        |
|-------------|------------------|----------------|--------|
|             |                  | in.            | sq. mm |
| 1377G1      | Right Angle - LD | 0.70           | 17.8   |
| 1377G2      | Right Angle - LD | 0.40           | 10.2   |
| 1377G11     | Right Angle - LD | 0.70           | 17.8   |
| 1377G12     | Right Angle - LD | 0.40           | 10.2   |
| 1377G14     | Right Angle - LD | 0.18           | 4.6    |
| 1377G15     | Right Angle - LD | 1.02           | 25.9   |
| 1377G16     | Right Angle - LD | 0.72           | 18.3   |
| 1377G17     | Right Angle - LD | 0.88           | 22.4   |
| 1377G18     | Right Angle - LD | 0.58           | 14.7   |
| 1317G1      | Right Angle - HD | 0.70           | 17.8   |
| 1317G2      | Right Angle - HD | 0.40           | 10.2   |
| 1317G11     | Right Angle - HD | 0.70           | 17.8   |
| 1317G14     | Right Angle - HD | 0.18           | 4.6    |
| 1317G15     | Right Angle - HD | 1.02           | 25.9   |
| 1317G16     | Right Angle - HD | 0.72           | 18.3   |
| 1317G17     | Right Angle - HD | 0.88           | 22.4   |
| 1317G18     | Right Angle - HD | 0.58           | 14.7   |

### 25 amp Straight PCB Contact\*

| Part Number | Description            | Contact Length |        |
|-------------|------------------------|----------------|--------|
|             |                        | in.            | sq. mm |
| 1377G3      | Straight Terminal - LD | 2.16           | 54.9   |
| 1377G4      | Straight Terminal - LD | 1.7            | 43.2   |
| 1377G13     | Straight Terminal - LD | 1.11           | 28.2   |
| 1317G3      | Straight Terminal - HD | 2.16           | 54.9   |
| 1317G4      | Straight Terminal - HD | 2.16           | 43.2   |
| 1317G13     | Straight Terminal - HD | 1.11           | 28.2   |

### Housings Only

| Part Number | Description    |
|-------------|----------------|
| 1327        | Red housing    |
| 1327G5      | Green housing  |
| 1327G6      | Black housing  |
| 1327G7      | White housing  |
| 1327G8      | Blue housing   |
| 1327G16     | Yellow housing |

### housings only continued

| Part Number | Description    |
|-------------|----------------|
| 1327G17     | Orange housing |
| 1327G18     | Gray housing   |
| 1327G21     | Brown housing  |
| 1327G22     | Pink housing   |
| 1327G23     | Purple housing |

### Accessories

| Part Number | Description                    |
|-------------|--------------------------------|
| 1399G9      | Red mounting wing              |
| 1399G8      | Blue mounting wing             |
| 1399G1**    | Red short spacer with end hole |
| 1399G2**    | Red long spacer                |
| 1399G6**    | Red short spacer without hole  |
| 110G68      | PP15/45 retention clip         |
| 114555P1    | Staple 1x1 (H x W)             |
| 114555P2    | Staple 1x2 (H x W)             |
| 114555P3    | Staple 1x3 (H x W)             |
| 114555P7    | Staple 1x4 (H x W)             |
| 114555P8    | Staple 1x6 (H x W)             |
| 114555P5    | Staple 2x1 (H x W)             |
| 114555P6    | Staple 2x2 (H x W)             |
| 114555P9    | Staple 2x2 - long (H x W)      |

\* LD - low detent or HD - high detent

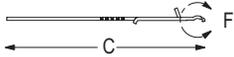
\*\* Contact customer service for additional colors

Note: For additional colors please contact customer service. For finger proof housings see page 18.

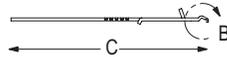
## DIMENSIONS

### Straight Terminals

| Part Number | -C-  |      | -E-  |      |
|-------------|------|------|------|------|
|             | mm   | in.  | mm   | in.  |
| 1377G3      | 54.9 | 2.16 | 56.4 | 2.22 |
| 1377G4      | 43.2 | 1.70 | 44.7 | 1.76 |
| 1317G3      | 54.9 | 2.16 | 56.4 | 2.22 |
| 1317G4      | 43.2 | 2.16 | 44.7 | 1.76 |
| 1377G13     | 28.2 | 1.11 | 29.7 | 1.17 |
| 1317G13     | 28.2 | 1.11 | 29.7 | 1.17 |



Low Detent Contact, Straight Terminal



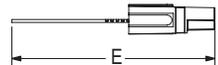
High Detent Contact, Straight Terminal



Low Detent Contact, Bent or Straight



High Detent Contact, Bent or Straight



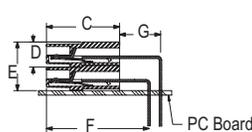
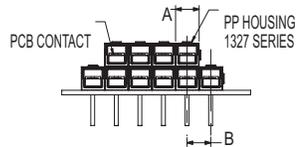
Straight Terminal Inside a Housing



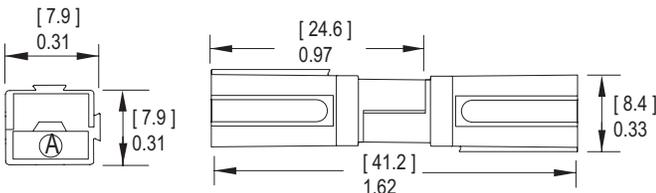
Terminal Width

### PCB Center Line

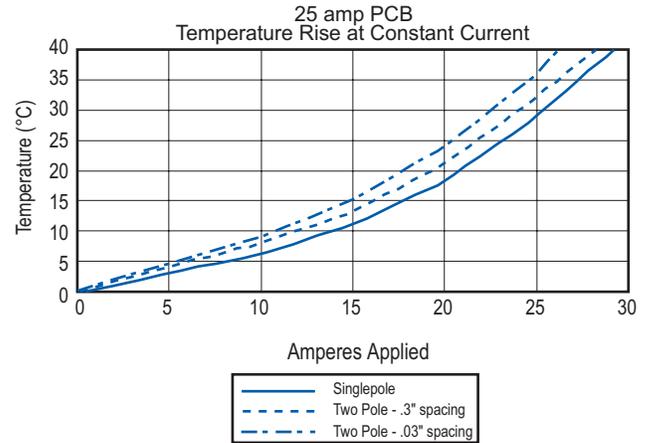
| -A- | -B- | -C- | -D- | -E-  | -F-  | -G-  |
|-----|-----|-----|-----|------|------|------|
| mm  | in. | mm  | in. | mm   | in.  | mm   |
| 7.9 | .31 | 7.9 | .31 | 24.7 | .97  | 8.4  |
|     |     |     |     | 8.4  | .33  | 16.3 |
|     |     |     |     | 16.3 | .64  | 34.5 |
|     |     |     |     | 34.5 | 1.36 | 13.7 |
|     |     |     |     | 13.7 | .54  |      |



### Housing



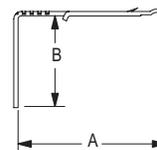
## TEMPERATURE RISE CHART



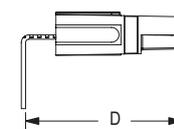
Note: Based on 0.002 in<sup>2</sup> copper foil on PCB & 12AWG wire cross-section.

### Right Angle Contacts

| Part Number | -A-  |      | -B-  |      | -D-  |      |
|-------------|------|------|------|------|------|------|
|             | mm   | in.  | mm   | in.  | mm   | in.  |
| 1377G1      | 36.8 | 1.46 | 17.8 | 0.70 | 38.6 | 1.52 |
| 1377G2      | 33.0 | 1.30 | 10.2 | 0.40 | 34.5 | 1.36 |
| 1377G11     | 29.0 | 1.14 | 17.8 | 0.70 | 30.7 | 1.21 |
| 1377G12     | 24.2 | 0.95 | 10.2 | 0.40 | 25.7 | 1.01 |
| 1377G14     | 33.0 | 1.30 | 4.6  | 0.18 | 34.5 | 1.36 |
| 1377G15     | 29.0 | 1.14 | 25.9 | 1.02 | 30.7 | 1.21 |
| 1377G16     | 24.1 | 0.95 | 18.3 | 0.72 | 25.4 | 1.00 |
| 1377G17     | 29.0 | 1.14 | 22.4 | 0.88 | 30.7 | 1.21 |
| 1377G18     | 25.4 | 1.00 | 14.7 | 0.58 | 27.2 | 1.07 |
| 1317G1      | 36.8 | 1.46 | 17.8 | 0.70 | 38.6 | 1.52 |
| 1317G2      | 33.0 | 1.30 | 10.2 | 0.40 | 34.5 | 1.36 |
| 1317G11     | 29.0 | 1.14 | 17.8 | 0.70 | 30.7 | 1.21 |
| 1317G14     | 33.0 | 1.30 | 4.6  | 0.18 | 34.5 | 1.36 |
| 1317G15     | 29.0 | 1.14 | 25.9 | 1.02 | 30.7 | 1.21 |
| 1317G16     | 24.1 | 0.95 | 18.3 | 0.72 | 25.4 | 1.00 |
| 1317G17     | 29.0 | 1.14 | 22.4 | 0.88 | 30.7 | 1.21 |
| 1317G18     | 25.4 | 1.00 | 14.7 | 0.58 | 27.2 | 1.07 |



Right Angle Contact Without a Housing



Right Angle Contact With a Housing

### Staple

| Part Number | H x W      | - A - |       | - B - |       |
|-------------|------------|-------|-------|-------|-------|
|             |            | mm    | in.   | mm    | in.   |
| 114555P1    | 1x1        | 12.0  | 0.472 | 6.0   | 0.236 |
| 114555P2    | 1x2        | 12.0  | 0.472 | 13.5  | 0.531 |
| 114555P3    | 1x3        | 12.0  | 0.472 | 21.5  | 0.846 |
| 114555P7    | 1x4        | 12.0  | 0.472 | 29.5  | 1.161 |
| 114555P8    | 1x6        | 12.0  | 0.472 | 45.5  | 1.791 |
| 114555P5    | 2x1        | 20.0  | 0.787 | 6.0   | 0.236 |
| 114555P6    | 2x2        | 20.0  | 0.787 | 13.5  | 0.531 |
| 114555P9    | 2x2 (long) | 23.0  | 0.905 | 13.5  | 0.531 |

