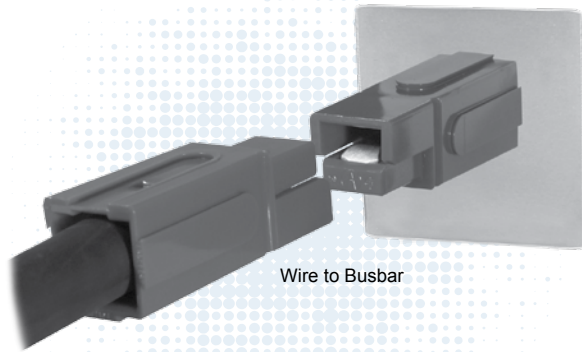


# Powerpole® Connectors

## - PP180: up to 350 Amps



PP180 are the largest of the Powerpole® series housings. They are designed to accommodate up to 3/0 (70 mm<sup>2</sup>) wires and handle high currents up to 350 amps. Busbar contacts are also available for power inputs and takeoffs. Color-coded housings minimize user confusion and the potential of cross mating circuits.

### Low Resistance Silver Plated Copper Contacts

- Allows currents up to 350 amps

### UL Rated for Hot Plugging up to 75 Amps

- Great for battery or other applications where the ability to interrupt circuits is required

### Busbar Contacts Work with Standard Housings

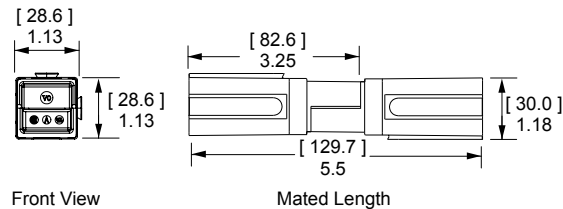
- Provides a hot swappable quick disconnect system for busbar power distribution

## | PP180 ORDERING INFORMATION |

### PP180 Housings

The largest Powerpole® housing can be used with wire contacts for up to 3/0 AWG [85mm<sup>2</sup>] or busbar contacts.

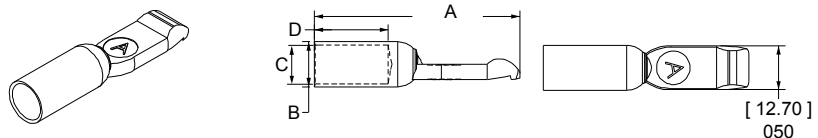
| Description          | ----- Part Numbers ----- |        |
|----------------------|--------------------------|--------|
| Minimum Quantity ... | 250                      | 50     |
| Red                  | 1381G3-BK                | 1381G3 |
| Green                | 1381G4-BK                | 1381G4 |
| Black                | 1381G1-BK                | 1381G1 |
| White                | 1381G2-BK                | 1381G2 |
| Blue                 | 1381-BK                  | 1381   |



### PP180 Silver Plated Wire Contacts

Silver plated contacts offer superior electrical performance and durability up to 10,000 mating cycles. New contacts for 2/0 to 3/0 AWG (70 to 85 mm<sup>2</sup>) offer extended capability in the same housings.

| AWG | mm <sup>2</sup> | Mating Force | ----- Loose Piece Part Numbers ----- |           |           |        | Dimensions |       |       |       |        |       |        |       |
|-----|-----------------|--------------|--------------------------------------|-----------|-----------|--------|------------|-------|-------|-------|--------|-------|--------|-------|
|     |                 |              | 500                                  | 300       | 250       | 50     | - A -      | - B - | - C - | - D - | inches | mm    | inches | mm    |
| 3/0 | 85              | Low          | -                                    | -         | 1328G2-BK | 1328G2 | 2.35       | 59.69 | 0.70  | 17.78 | 0.58   | 14.73 | 1.04   | 26.42 |
| 2/0 | 67.4            | Low          | -                                    | 1328G1-BK | -         | 1328G1 | 2.35       | 59.69 | 0.64  | 16.26 | 0.49   | 12.45 | 1.04   | 26.42 |
| 1/0 | 53.5            | High         | 1382-BK                              | -         | -         | 1382   | 2.35       | 59.69 | 0.52  | 13.21 | 0.44   | 11.18 | 1.04   | 26.42 |
| 1   | 42.4            | High         | 1347-BK                              | -         | -         | 1347   | 2.35       | 59.69 | 0.52  | 13.21 | 0.39   | 9.91  | 1.04   | 26.42 |
| 2   | 33.6            | High         | 1383-BK                              | -         | -         | 1383   | 2.35       | 59.69 | 0.52  | 13.21 | 0.35   | 8.89  | 1.04   | 26.42 |
| 4   | 21.1            | High         | 1384-BK                              | -         | -         | 1384   | 2.35       | 59.69 | 0.52  | 13.21 | 0.30   | 7.62  | 1.04   | 26.42 |
| 6   | 13.3            | High         | 1348-BK                              | -         | -         | 1348   | 2.10       | 53.34 | 0.37  | 9.40  | 0.22   | 5.59  | 0.80   | 20.32 |

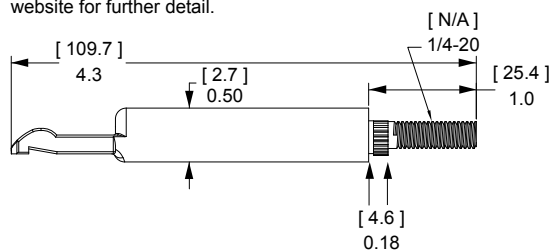


## PP180 Silver Plated Busbar Contacts

Use 2 busbar contacts per housing to provide a quick disconnect input or output busbar connection. Busbar contacts are for mating with wire contacts only. Part number 180BBS includes lock nuts. Locknuts must be ordered separately for 180BBS-BK.

| Thread           | Mating Force | ----- Loose Piece Part Numbers ----- |        |        |  |
|------------------|--------------|--------------------------------------|--------|--------|--|
| Minimum Quantity |              | 1,000                                | 120    | 10     |  |
| Busbar 1/4-20    | High         | 180BBS-BK                            | 180BBS | -      |  |
| Lock Nut 1/4-20  | N/A          | H1216P7                              | 110G56 | 110G55 |  |

See Busbar contact drawing on website for further detail.



## PP180 SPECIFICATIONS

### Electrical

| Current Rating Amperes <sup>1</sup> | UL 1977 | CSA |
|-------------------------------------|---------|-----|
| Singlepole (wire-wire) (3/0 AWG)    | 350     | 230 |
| 2x2 Block (wire-wire) (3/0 AWG)     | 350     |     |
| Singlepole (wire-busbar) (1/0 AWG)  | 180     |     |

### Voltage Rating AC/DC

|         |     |
|---------|-----|
| UL 1977 | 600 |
|---------|-----|

### Dielectric Withstanding Voltage

|          |       |
|----------|-------|
| Volts AC | 2,200 |
|----------|-------|

### Avg. Mated Contact Resistance Milliohms<sup>1</sup>

|                    |       |
|--------------------|-------|
| 6" of 1/0 AWG wire | 0.100 |
|--------------------|-------|

### UL Hot Plug Current Rating Amperes

|                       |     |
|-----------------------|-----|
| 250 cycles at 120V DC | 75A |
|-----------------------|-----|

### Mechanical

| Wire Size Range                       | AWG         | mm <sup>2</sup> |
|---------------------------------------|-------------|-----------------|
|                                       | 10 to 3/0   | 5.3 to 85       |
| Max. Wire Insulation Diameter         | in.         | mm              |
|                                       | 0.900       | 22.860          |
| Operating Temperature <sup>2</sup>    | °F          | °C              |
|                                       | -4° to 221° | -20° to 105°    |
| Mating Cycles No Load by Plating      | Silver (Ag) |                 |
| Wire and Busbar Contacts              | 10,000      |                 |
| Avg. Mating / Unmating Force          | Lbf.        | N               |
| Wire & Busbar Contacts                | 10          | 44              |
| Min. Contact / Spring Retention Force | Lbf.        | N               |
|                                       | 120         | 534             |

### Materials

#### Housing

|                          |                 |
|--------------------------|-----------------|
| Plastic Resin            | Polycarbonate   |
| Contact Retention Spring | Stainless Steel |

#### Housing Flammability Rating

|      |     |
|------|-----|
| UL94 | V-0 |
|------|-----|

#### Contact

|         |              |
|---------|--------------|
| Base    | Copper Alloy |
| Plating | Silver       |

#### Contact Termination Methods

|                    |
|--------------------|
| Crimp <sup>3</sup> |
| Hand Solder        |
| Wrench / Socket*   |

\*Busbar Contacts Only

### Protection

#### Touch Safety with Wire Contacts

|           |      |
|-----------|------|
| IEC 60529 | IP10 |
|-----------|------|

<sup>1</sup> Based on: 105°C rated or better cable of the largest size, Properly calibrated APP® recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.

<sup>2</sup> Limited by the thermal properties of the connector plastic housing.

<sup>3</sup> Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.



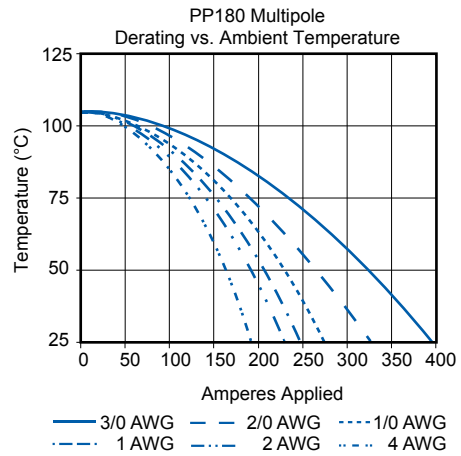
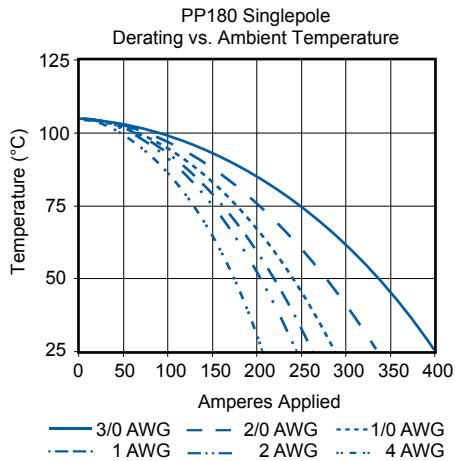
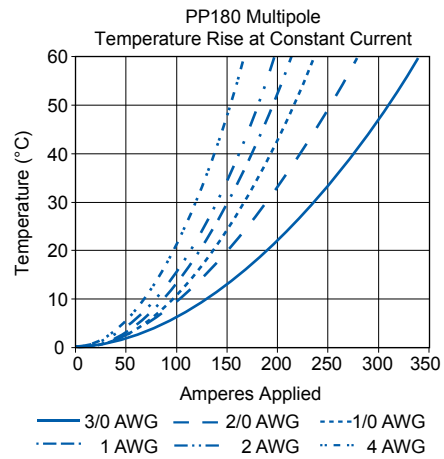
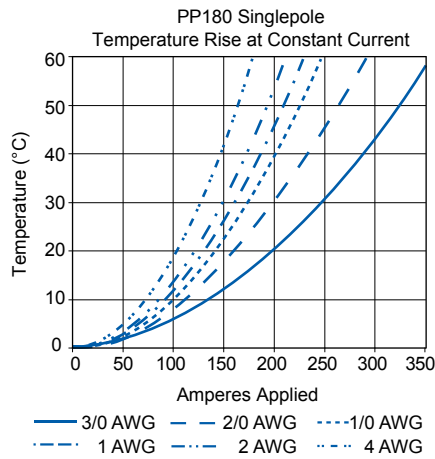
File No. E26226



CSA Certified  
File No. LR25154



## | PP180 TEMPERATURE CHARTS |



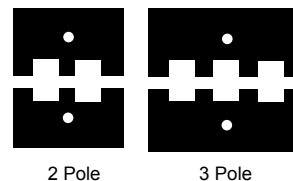
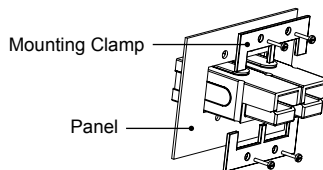
NOTE: Temperature rise charts are based on a 25°C ambient temperature.

## | Powerpole® PP180 Accessories |

### Mounting Clamp

Mounting clamps can be used for fastening a block of Powerpole® 180 series housings to a panel. Connector blocks must be a complete square for the clamps to work properly. Fastening hardware not included.

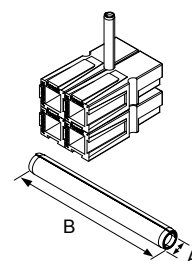
| Description          | - Part Numbers -   |
|----------------------|--------------------|
| Minimum Quantity ... | 20 sets of 2 ..... |
| 2 Pole               | 1465G1             |
| 3 Pole               | 1465G2             |



### Retaining Pins

Retaining pins are used to keep stacked Powerpole® 180 series housings from separating. Retaining pins are inserted in the circular opening between two housings stacked side by side. Dimension "B" is +/- .015 in or .38 mm.

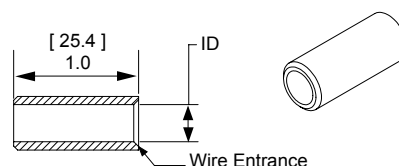
| Description          | Part Numbers ----- |        | Dimensions      |             |             |        |
|----------------------|--------------------|--------|-----------------|-------------|-------------|--------|
|                      |                    |        | - A -<br>inches |             | - B -<br>mm |        |
| Minimum Quantity ... | 1,000              | 100    |                 |             |             |        |
| 1 Block High         | 111812P6           | 110G18 | 0.196 / 0.207   | 4.98 / 5.26 | 1.000       | 25.400 |
| 2 Block High         | 111812P8           | 110G20 | 0.196 / 0.207   | 4.98 / 5.26 | 1.500       | 38.100 |



### Reducing Bushings

Use with contact part number 1382-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

| Contact Barrel Size  | Wire Size                   | Part Numbers |         |         |      | Dimensions |      |
|----------------------|-----------------------------|--------------|---------|---------|------|------------|------|
|                      |                             |              |         |         |      | - ID -     |      |
|                      |                             |              |         |         |      | inches     | mm   |
| Minimum Quantity ... |                             | 1,500        | 1,000   | 500     | 100  |            |      |
| 1/0 AWG [53.5 mm²]   | #1 AWG [42.4 mm²]           | -            | -       | 5687-BK | 5687 | 0.39       | 9.91 |
| 1/0 AWG [53.5 mm²]   | #2 AWG [33.6 mm²]           | 5690-BK      | -       | -       | 5690 | 0.34       | 8.64 |
| 1/0 AWG [53.5 mm²]   | #4 AWG [21.2 mm²]           | -            | 5693-BK | -       | 5693 | 0.27       | 6.86 |
| 1/0 AWG [53.5 mm²]   | #6 AWG [13.3 mm²]           | -            | 5663-BK | -       | 5663 | 0.22       | 5.59 |
| 1/0 AWG [53.5 mm²]   | #10 - 8 AWG [5.3 - 8.4 mm²] | 5648-BK      | -       | -       | 5648 | 0.19       | 4.83 |



For environmentally sealed connector shells to hold Powerpole® 15-180 connectors, see APP®'s SPEC Pak® product series on our website, [www.andersonpower.com](http://www.andersonpower.com)



# Powerpole®

## - Tooling Information

| Wire Size                            |            | Loose Piece Part Numbers |                | Loose Piece Contact Crimp Tool |                      |         |           |                  | Reeled Part Numbers |                | Reeled Contact Crimp Tools |                          |                         |           |                          |                         |
|--------------------------------------|------------|--------------------------|----------------|--------------------------------|----------------------|---------|-----------|------------------|---------------------|----------------|----------------------------|--------------------------|-------------------------|-----------|--------------------------|-------------------------|
| AWG                                  | mm²        | Tin Plating              | Silver Plating | Hand Tool or                   | Pneumatic Bench Tool | + Die   | + Locator | Number of Crimps | Tin Plating         | Silver Plating | ATS Applicator             | ATS Press                | Air Feed Kit*           |           |                          |                         |
| PP15 / 45 Flat Wiping Power & Ground |            |                          |                |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| 16 / 20                              | 1.3 / 0.52 | N/A                      | 1332           | 1309G2 or 1309G8               | 1367G1               |         |           |                  | N/A                 | N/A            | N/A                        | N/A                      | N/A                     |           |                          |                         |
| 12 / 16                              | 3.3 / 1.3  | N/A                      | 1331           |                                |                      |         |           |                  | N/A                 | N/A            | Single                     |                          |                         |           |                          |                         |
| 16 / 20                              | 1.3 / 0.52 | 262G1-LPBK               | 262G2-LPBK     |                                |                      |         |           |                  |                     |                |                            | 262G1                    | 262G2                   | 1385519-1 | 1725900-2 or [3-54500-1] | 1424266-1 or [354578-1] |
| 16 / 20                              | 1.5 / 0.52 | 200G2L-LPBK              | 200G4L-LPBK    |                                |                      |         |           |                  |                     |                |                            | 200G2L                   | 200G4L                  | TBD       |                          |                         |
| 16 / 20                              | 1.3 / 0.52 | 269G2-LPBK               | N/A            |                                |                      |         |           |                  |                     |                |                            | 269G2                    | N/A                     | 1385519-1 |                          |                         |
| 12 / 16                              | 3.3 / 1.3  | 261G1-LPBK               | 261G4-LPBK     | 1309G3 or 1309G8               | N/A                  | N/A     | N/A       | Single           | 261G1               | 261G4          | 1385520-1                  |                          |                         |           |                          |                         |
| 10 / 14                              | 5.3 / 2.1  | 261G2-LPBK               | 261G3-LPBK     |                                |                      |         |           |                  | 261G2               | 261G3          | 1385458-1                  |                          |                         |           |                          |                         |
| 12 / 16                              | 3.3 / 1.3  | 269G1-LPBK               | N/A            |                                |                      |         |           |                  | 269G1               | N/A            | 1385520-1                  |                          |                         |           |                          |                         |
| 10 / 14                              | 5.3 / 2.1  | 269G3-LPBK               | N/A            | 1309G6 or 1309G8               |                      |         |           |                  | 269G3               | N/A            | 1385458-1                  |                          |                         |           |                          |                         |
| 10 / 14                              | 6.0 / 2.1  | 200G1L-LPBK              | 200G3L-LPBK    |                                |                      |         |           |                  | 200G1L              | 200G3L         | 1385460-1                  |                          |                         |           |                          |                         |
| 10 / 14                              | 6.0 / 2.1  | 201G1H-LPBK              | 201G3H-LPBK    |                                |                      |         |           |                  | 201G1H              | 201G3H         | 1385460-1                  |                          |                         |           |                          |                         |
| 10 / 14                              | 6.0 / 2.1  | 1830G1-LPBK              | 1830G2-LPBK    |                                |                      |         |           |                  | 1830G1              | 1830G2         | 1385460-1                  |                          |                         |           |                          |                         |
| PP75                                 |            |                          |                |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| #6                                   | 13.3       | N/A                      | 1307           | 1309G4                         | 1387G1               | 1388G6  | 1389G6    | Single           | 265G5               | N/A            | 1385523-1                  | 2-565435-2               | 692655-1                |           |                          |                         |
| #8                                   | 8.4        |                          | 5952           |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| #10 / 12                             | 5.3 / 3.3  |                          | 5953           |                                |                      | 1388G7  |           |                  | 265G6               |                | 1385522-1                  | 1725900-2 or [3-54500-1] | 1424266-1 or [354578-1] |           |                          |                         |
|                                      |            |                          | 5915           |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| PP120                                |            |                          |                |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| 1/0                                  | 53.5       | N/A                      | 1323G2         | 1368                           | 1387G1               | 1388G3  | 1389G4    | Single           | N/A                 | N/A            | N/A                        | N/A                      | N/A                     |           |                          |                         |
| #1                                   | 42.4       |                          | 1323G1         |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| #2                                   | 33.6       |                          | 1319           |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| #4                                   | 21.2       |                          | 1319G4         |                                |                      | 1388G4  |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| #6                                   | 13.3       |                          | 1319G6         |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| PP180                                |            |                          |                |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| 3/0                                  | 85         | N/A                      | 1328G2         | 1368                           | 1387G2               | 1303G12 | 1304G32   | Double           | N/A                 | N/A            | N/A                        | N/A                      | N/A                     |           |                          |                         |
| 2/0                                  | 53.5       |                          | 1328G1         |                                |                      |         |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| 1/0                                  | 53.5       |                          | 1382           |                                |                      | 1303G13 |           |                  |                     |                |                            |                          |                         |           |                          |                         |
| #1                                   | 42.4       |                          | 1347           |                                | 1387G1               | 1388G3  | 1389G3    | Single           |                     |                |                            |                          |                         |           |                          |                         |
| #2                                   | 33.6       |                          | 1383           |                                |                      | 1387G2  | 1303G13   | 1304G32          |                     |                |                            |                          |                         | Double    |                          |                         |
| #4                                   | 21.1       |                          | 1384           |                                | 1387G1               | 1388G3  | 1389G3    | Single           |                     |                |                            |                          |                         |           |                          |                         |
|                                      |            |                          |                |                                | 1387G2               | 1303G13 | 1304G32   | Double           |                     |                |                            |                          |                         |           |                          |                         |
| #6                                   | 13.3       |                          | 1348           |                                | 1387G1               | 1388G4  | 1389G3    | Single           |                     |                |                            |                          |                         |           |                          |                         |

\* All ATS applicators for APP® contacts are air feed style, (except 1385870) and require the press to have an air feed kit installed.  
NOTE: See website for the most current information.

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### Офис по работе с юридическими лицами:

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