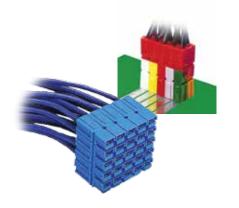
Powerpole[®] Connectors PP15/45 - Up to 55 Amps



PP15/45 series are the smallest Powerpole[®] housings. They can be used for wire-to-wire or wire-to-board applications. Wire sizes from 20 to 10 AWG (0.75 to 6 mm²) offer power capabilities up to 55 amps per pole. Finger proof housings and the ability to incorporate first-mate last-break ground connectors enhance the capabilities of this Powerpole[®] series.

High Power Density

Up to 55 amps in a compact footprint

 Wire-to-Wire & Wire-to-Board Configurations Wire & PCB contacts can be used in the same housings

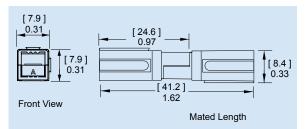
Finger Proof Housings Available Protects against accidental contact with live circuits

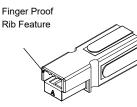
PP15/45 ORDERING INFORMATION

PP15/45 Finger Proof Housings Improved on the original APP® design by adding ribs to mating interface to protect against accidental contact with live circuits. Meets the requirements of UL1977 section 10.2 and is rated IP20. Will not mate with standard housings.

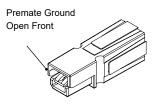
| Description | Part Numbers | | |
|------------------|--------------|-----------|--|
| Minimum Quantity | 2,500 | 200 | |
| Red | 1327FP-BK | 1327FP | |
| Green | 1327G5FP-BK | 1327G5FP | |
| Black | 1327G6FP-BK | 1327G6FP | |
| White | 1327G7FP-BK | 1327G7FP | |
| Blue | 1327G8FP-BK | 1327G8FP | |
| Yellow | 1327G16FP-BK | 1327G16FP | |

Finger Proof, Standard & Ground Housing Dimensions









PP15/45 Standard Housings

This original housing design has an open interface and is available in a wide array of colors. Will not mate with finger proof housings.

| Description | Part Numbers | | | |
|------------------|--------------|---------|--|--|
| Minimum Quantity | 2,500 | 200 | | |
| Red | 1327-BK | 1327 | | |
| Green | 1327G5-BK | 1327G5 | | |
| Black | 1327G6-BK | 1327G6 | | |
| White | 1327G7-BK | 1327G7 | | |
| Blue | 1327G8-BK | 1327G8 | | |
| Yellow | 1327G16-BK | 1327G16 | | |
| Orange | 1327G17-BK | 1327G17 | | |
| Gray | 1327G18-BK | 1327G18 | | |
| Brown | 1327G21-BK | 1327G21 | | |
| Pink | 1327G22-BK | 1327G22 | | |
| Purple | 1327G23-BK | 1327G23 | | |

45A Premate Ground Housings - for use with ground contacts only

Will mate with standard Powerpole® housings.

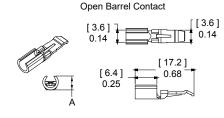
| Description | Part Num | bers |
|------------------|-----------|--------|
| Minimum Quantity | 2,500 | 200 |
| Green | 1827G1-BK | 1827G1 |



PP15/45 Tin Plated Power Contacts

Offer cost effective performance up to 1,500 mating cycles. See specifications and temperature charts for amperage ratings by wire size.

| | | | | | | Dimens | sions |
|--|--|--|--|--|--|--|--|
| | | | Mating | Loose Piece | Reeled | - A - | - |
| Barrel | AWG | mm² | Force | Part Numb | pers | inches | mm |
| Minimu | m Quantity | | | 200 | 5,000 | | |
| Open Open Open Open Open Open Open | 14 to 10 K * 14 to 10 K * 14 to 10 SF * 14 to 10 SF * 16 to 12 16 to 12 20 to 16 20 to 16 | 2.1 to 5.3 2.1 to 5.3 2.1 to 6.0 2.1 to 6.0 1.3 to 3.3 1.3 to 3.3 0.52 to 1.3 0.52 to 1.3 | High Low High Low High Low High Low | 269G3-LPBK 261G2-LPBK 201G1H-LPBK 200G1L-LPBK 269G1-LPBK 269G2-LPBK 262G1-LPBK | 269G3 261G2 201G1H 200G1L 269G1 261G1 269G2 262G1 | 0.21 0.20 0.24 0.24 0.18 0.18 0.16 0.16 | 5.33 5.08 6.10 6.10 4.57 4.57 4.06 4.06 |



[17.27]

[3.81] 0.15

[16.26]

0.64

┣

[3.81] 0.15

0.68 -

Open Barrel Contact

Closed Barrel Contact

B

[6.35]

0.25

[7.35]

0.29

K * - For #10 AWG class K stranded wire or smaller. For larger wires use superflex contacts. SF*- Indicates wires with high stranding such as Super Flex.

PP15/45 Silver Plated Power Contacts

Maximize performance by offering up to 10,000 mating cycles and are recommended for circuit interrupt or hot plug applications. See specifications and temperature charts for amperage ratings by wire size. Only closed barrel contacts are suitable for soldering.

| | | | | | | | | Dimen | sions | |
|----------------------|----------------------------------|--|-------------------|-------------------------|---|--------------------------|----------------------|----------------------|-------------------|-------------------|
| | | | Mating | Loo | se Piece | Reeled | - / | 4 - | - B | - |
| Barrel | AWG | mm² | Force | Part | Numbers | Part Numbers | inches | s mm | inches | mm |
| Minimum | Quantity | | | 5,000 | 200 | 5,000 | | | | |
| Open Open Open | 14 to 10 K * 14 to 10 SF * | * 2.1 to 6.0 | Low Low | - | 261G3-LPBK 200G3L-LPBK 262G2-LPBK | 261G3 200G3L 262G2 | 0.20 0.24 0.16 | 5.08 6.10 4.06 | - | - |
| Closed Closed | 20 to 16 16 to 12 20 to 16 | 0.52 to 1.3 1.3 to 3.3 0.52 to 1.3 | Low Low Low | - 1331-BK 1332-BK | | - - | 0.16 0.15 0.12 | 4.06 3.81 3.05 | - 0.10 0.07 | - 2.54 1.78 |

K * - For #10 AWG class K stranded wire or smaller. For larger wires use superflex contacts. SF*- Indicates wires with high stranding such as Super Flex.

45A Premate Ground Wire Contacts - for use with ground housing only

Tin or silver plated contacts are rated for ground or power. Hand tools are available for loose piece contacts. Reeled contacts can be used with high volume press and applicator tooling. Tin contacts are rated for up to 1,500 mating cycles. Silver contacts are rated up to 10,000 mating cycles.

| Туре | AWG | mm² | Mating Force | Loose Piece Part Numbers | Reeled Part Numbers |
|---------------------------|----------------------|--------------------------|-----------------|-----------------------------|---------------------------|
| Minimum Qua | ntity | | | 200 | 2,500 |
| Open, Tin Open, Silver | 14 to 10 14 to 10 | 2.1 to 6.0 2.1 to 6.0 | Low Low | 1830G1-LPBK 1830G2-LPBK | 1830G1 1830G2 |

25A Right Angle PCB Contacts Tin Plated

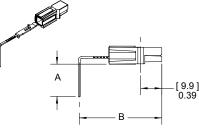
Suitable for right angle applications up to 25A per pole. Tin plating enhances solderability. Cannot be mixed with 45A PCB contacts. For mating with wire contacts only.

| | | | | Dime | nsions | |
|-------------|--|---|---|--|--|---|
| Mating | Loose I | Piece | - A | ۸- | - B - | |
| Force | Part Nu | mbers | inches | mm | inches | mm |
| n Quantity | 1,000 | 100 | | | | |
| Low High | 1377G1-BK 1317G1-BK | 1377G1 1317G1 | 0.58 | 14.80 | 1.52 | 38.60 |
| Low | 1377G2-BK 1317G2-BK | 1377G2 1317G2 | 0.29 | 7.20 | 1.36 | 34.50 |
| Low | 1377G11-BK | 1377G11 | 0.58 | 14.80 | 1.21 | 30.70 |
| Low | 1377G12-BK | 1377G12 | 0.29 | 7.20 | 1.01 | 25.70 |
| | Force n Quantity Low High Low High Low High | Force Part Nu n Quantity 1,000 Low 1377G1-BK High 1317G1-BK Low 1377G2-BK High 1317G2-BK Low 1377G1-BK Low 1377G2-BK High 1317G1-BK Low 1377G11-BK Low 1377G12-BK | Force Part Numbers n Quantity 1,000 100 Low 1377G1-BK 1377G1 High 1317G2-BK 1317G2 High 1317G1-BK 1317G1 Low 1377G1-BK 1317G2 High 1317G1-BK 1317G11 Low 1377G11-BK 1317G11 Low 1377G12-BK 1317G11 Low 1377G12-BK 1377G12 | Force Part Numbers inches n Quantity 1,000 100 100 Low 1377G1-BK 1377G1 0.58 High 1317G1-BK 1317G1 0.29 High 1317G2-BK 1317G2 0.29 High 1317G1-BK 1317G2 0.58 High 1317G1-BK 1317G1 0.58 High 1317G1-BK 1317G11 0.58 High 1317G12-BK 1317G11 0.58 High 1317G12-BK 1317G12 0.29 | Mating Force Loose Piece - A - Part Numbers inches mm n Quantity 1,000 100 Low 1377G1-BK 1317G1 High 1317G1-BK 1317G1 Low 1377G2-BK 1317G2 Low 1377G2-BK 1317G2 Low 1377G1-BK 1317G2 Low 1377G11-BK 1317G11 Low 1377G11-BK 1317G11 Low 1377G12-BK 137G11 J317G12-BK 1377G12 0.29 7.20 | Force Part Numbers inches m inches n Quantity 1,000 100 |

25A Vertical PCB Contacts Tin Plated

For mating with wire contacts only. Suitable for vertical applications up to 25A per pole, tin plating enhances solderability.

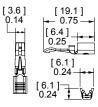
| Mating Force | Loose Piece Part Numbers | | - / | ensions A - s mm |
|---|---|--|--|--|
| Minimum Quantity Low High Low High Low High | 1,000 1377G3-BK 1317G3-BK 1377G4-BK 1317G4-BK 1377G13-BK 1317G13-BK | | 2.22 2.22 1.76 1.76 1.17 1.17 | 56.40 56.40 44.70 44.70 29.70 29.70 |



Use mounting staples with right angle contacts (see accessories).
See website for PCB layout drawing.

[3.1] 0.12 Housing end

Open Barrel Premate Contact



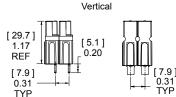


- 31 -

45A Right Angle and Vertical PCB Contacts Tin Plated

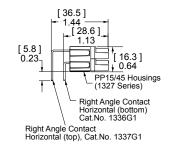
Suitable for right angle or vertical applications up to 45A per pole. Tin plating enhances solderability. Right angle contacts cannot be mixed with 25A PCB contacts. For mating with wire contacts only.

| | Loose F | Piece |
|---|----------------------------------|----------------------------|
| Description | Part Nu | mbers |
| Minimum Quantity | 1,000 | 100 |
| Vertical Right Angle Bottom Row Right Angle Top Row | 3-5911P1 3-5912P1 3-5913P1 | 1335G1 1336G1 1337G1 |



Use mounting staples with right angle

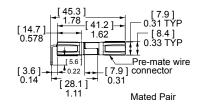
contacts (see accessories).



45A Premate Ground PCB Contacts

Right angle contacts are suitable for power or ground. Use to mate with 45A ground wire contacts. Tin plated contacts are rated up to 1,500 mating cycles. Can be used with other 45A PCB connectors in the bottom row.

| | Mating Force | Loose P Part Nur | |
|------------------|-----------------|---------------------|--------|
| Minimum Quantity | Low | 1000 | 100 |
| PCB, Bottom Row | | 3-5952P1 | 1836G1 |



PP15/45 ULTRASONICALLY BONDED ASSEMBLIES

Assemblies feature housings that are ultrasonically welded to create a one piece connector unit using an APP® special process. After welding, retaining pins are no longer required to secure the stacked housings to each other. This allows Powerpole® 15/45 connectors to be used as a durable one piece connector header. Contact customer service for configurations not shown below.

Single Row 1x2 Assemblies

POWERPOLE[®] PP15/45

| | | Housings with | Housings with | |
|-------------------------------------|----------------|----------------|-----------------|---------------------|
| | | 45A Vertical | 45A Right Angle | Color & Type |
| Circuit Description | Housings Only | PCB Contacts | PCB Contacts | Position Matrix |
| Minimum Quantity | 500 | 500 | 500 | 1 2 |
| DC 2 Wire Standard Housings | ASMPP30-1X2-RK | ASMPV45-1X2-RK | ASMPR45-1X2-RK | RED/STD BLK/STD |
| DC 2 Wire Reverse Standard Housings | ASMPP30-1X2-KR | ASMPV45-1X2-KR | ASMPR45-1X2-KR | BLK / STD RED / STD |
| DC 2 Wire Finger Proof | ASMFP30-1X2-RK | ASMFV45-1X2-RK | ASMFR45-1X2-RK | RED / FP BLK / FP |
| DC 2 Wire Finger Proof Reverse | ASMFP30-1X2-KR | ASMFV45-1X2-KR | ASMFR45-1X2-KR | BLK / FP RED / FP |

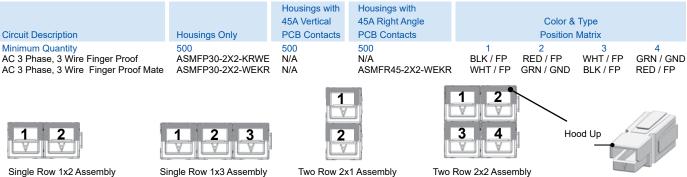
Single Row 1x3 Assemblies

| | | Housings with | | | |
|--|---|---|---------------------------|-----------------------------|---------------------------|
| | | 45A Right Angle | Color & Type | | |
| Circuit Description | Housings Only | PCB Contacts | Position Matrix | | |
| Minimum Quantity DC 2 Wire Finger Proof with Ground AC Single Phase Finger Proof | 500 ASMFP30-1X3-KER ASMFP30-1X3-KEW | 500 ASMFR45-1X3-KER ASMFR45-1X3-KEW | 1 BLK / FP BLK / FP | 2 GRN / GND GRN / GND | 3 RED / FP WHT / FP |

Two Row 2x1 Assemblies

| | | Housings with | Housings with | | |
|-----------------------------|----------------|----------------|-----------------|----------|----------|
| | | 45A Vertical | 45A Right Angle | Color & | Туре |
| Circuit Description | Housings Only | PCB Contacts | PCB Contacts | Position | Matrix |
| Minimum Quantity | 500 | 500 | 500 | 1 | 2 |
| DC 2 Wire Finger Proof | ASMFP30-2X1-KR | ASMFV45-2X1-KR | ASMFR45-2X1-KR | BLK / FP | RED / FP |
| DC 2 Wire Finger Proof Mate | ASMFP30-2X1-RK | ASMFV45-2X1-RK | ASMFR45-2X1-RK | RED / FP | BLK / FP |

Two Row 2x2 Assemblies



Type

- 32 -

STD = Standard Housing

FP = Finger Proof Housing

```
GND = Ground Housing
```

Two Row 2x2 Assembly



Powerpole[®] Pak Connectors PP15/45



Powerpole[®] Pak connector shells enclose stacked groupings of PP15/45 sized housings in a durable black shell for a finished connector appearance and additional features. Inline, panel mount, and blindmate configurations are available. Plug shells offer the option of integral latches and strain relief to help secure your connection.

- Package Groupings of PP15/45 Connectors Provides a finished appearance while protecting the individual connectors with an outer shell
- Inline, Panel Mount, "T" or Blindmate Configurations Allows one connection system to meet multiple needs
- Optional Latching and Strain Relief Secures your connection and wires

For environmentally sealed connector shells to hold Powerpole[®] 15 to 180 connectors, see SPEC Pak[®] product series on our website <u>www.andersonpower.com</u>

.....

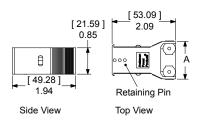


POWERPOLE® PAK ORDERING INFORMATION - Powerpole® housings and contacts are sold separately

Plug Shell Without Latch

Can mate inline with other plug shells with or without latches, or mate to a panel mount receptacle. For use with Powerpole® wire connectors only. Cable Clamp and Hardware Pak or Retaining Pins must be ordered separately.

| | | | | Dimen | isions |
|---------------------|-----------|------------|--------|--------|--------|
| | | | | - A | - |
| Description | Pa | rt Numbers | | inches | mm |
| Minimum Quantity | 1,000 | 500 | 25 | | |
| Black, 2 to 4 Poles | 1461G1-BK | - | 1461G1 | 1.24 | 31.50 |
| Black, 5 to 6 Poles | - | 1461G2-BK | 1461G2 | 1.56 | 39.62 |
| Black, 7 to 8 Poles | - | 1461G3-BK | 1461G3 | 1.87 | 47.50 |



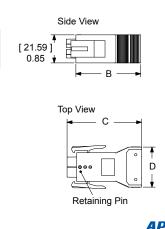
NOTE: Retaining pins are used to secure and position Powerpole^{*} housings in one of three positions in plug shells.

Max wire O.D. for 2 to 4 pole plug shells is 0.60 inches (15.2 mm²). For all other plug shells is 0.63 inches (16.0 mm²).

Plug Shell With Latch

Can mate inline with other plug shells without latches, or mate to a panel mount receptacle. For use with Powerpole[®] wire connectors only. Cable Clamp and Hardware Pak or Retaining Pins must be ordered separately.

| | | | | Dimensions | | | | | |
|----------------------|-----------|-------------|--------|------------|-------|--------|-------|--------|-------|
| | | | | - B | - | - C | - (| - D | - |
| Description | P | art Numbers | | inches | mm | inches | mm | inches | mm |
| Minimum Quantity | 1,000 | 500 | 25 | | | | | | |
| Black, 2 to 4 Poles | 1460G1-BK | - | 1460G1 | 1.94 | 49.28 | 2.25 | 57.15 | 1.24 | 31.50 |
| Black, 5 to 6 Poles | - | 1460G2-BK | 1460G2 | 1.94 | 49.28 | 2.25 | 57.15 | 1.56 | 39.62 |
| Black, 7 to 8 Poles | - | 1460G3-BK | 1460G3 | 1.94 | 49.28 | 2.25 | 57.15 | 1.87 | 47.50 |
| Black, 9 to 10 Poles | - | 1460G4-BK | 1460G4 | 2.51 | 63.75 | 2.82 | 71.63 | 1.84 | 46.74 |

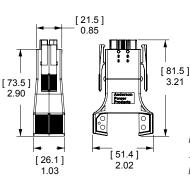




Plug Shell With Latch & Non-Conductive Strain Relief

New 2X3 Powerpole® Pak offers an improved ergonomic shell for easier latch operation as well as a plastic, non-conductive strain relief. The new strain relief can accommodate up to a 6 conductor 10 AWG cable. Can mate to a panel mount receptacle. For use with Powerpole® wire connectors only. Cable Clamp and Hardware Pak or Retaining Pins must be ordered separately. To be used with 115G23 cable clamp only.

| Description | Part Numbers | |
|---------------------|--------------|---------|
| Minimum Quantity | 1,000 | 25 |
| Black, 5 to 6 Poles | 1460G23-BK | 1460G23 |

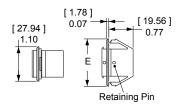


NOTE: Max wire O.D. for 1460G23 is 0.80 inches [20.3 mm²].

Snap-in Receptacle Shell

Mate to plug shells with or without latches, or mate to another panel mount receptacle to create a bulkhead to bulkhead connection. For use with Powerpole® wire or PCB connectors. Order the number of retaining pins for each receptacle as shown below separately.

| | | | | Number of Retaining | Dimens - E | | Knock O - Wid | |
|----------------------|-----------|-----------|--------|---------------------|---------------|-------|------------------|-------|
| Description | Par | t Numbers | | to Order | inches | mm | inches | mm |
| Minimum Quantity | 1,000 | 500 | 25 | | | | | |
| Black, 2 to 4 Poles | 1470G1-BK | - | 1470G1 | 1 | 1.50 | 38.10 | 1.25 | 31.75 |
| Black, 5 to 6 Poles | - | 1470G2-BK | 1470G2 | 2 | 1.88 | 47.75 | 1.62 | 41.15 |
| Black, 7 to 8 Poles | - | 1470G3-BK | 1470G3 | 3 | 2.13 | 54.10 | 1.88 | 47.75 |
| Black, 9 to 10 Poles | - | 1470G4-BK | 1470G4 | 4 | 2.44 | 61.98 | 2.19 | 55.63 |
| * Height = (25.4 mm |) 1 0 in | | | | | | | |



3.21

NOTE: Retaining pins are used to secure and position Powerpole® housings in one of two positions in receptacle shells.

Height = (25.4 mm) 1.0 in.

Cable Clamp & Hardware Pak

Includes cable clamp, 2 screws, and required amount of retaining pins for each configuration.

| | Screw | Cable | | | |
|---------------|---------------|---------|----------|------------|-------|
| Description | Head Type | Туре | Pa | rt Numbers | |
| Minimum Qua | ntity | | 1,000 | 500 | 25 |
| 2 to 4 Poles | Straight Slot | Bundled | 115G1-BK | - | 115G1 |
| 5 to 6 Poles | Straight Slot | Bundled | 115G2-BK | - | 115G2 |
| 7 to 8 Poles | Straight Slot | Bundled | 115G3-BK | - | 115G3 |
| 9 to 10 Poles | Straight Slot | Bundled | - | 115G4-BK | 115G4 |
| 2 to 4 Poles | Phillips | Bundled | 115G7-BK | - | 115G7 |
| 5 to 6 Poles | Phillips | Bundled | 115G8-BK | - | 115G8 |

Cable Clamp & Hardware Pak

Includes 2 cable clamp halves, 2 screws and 2 retaining pins. To be used with 1460G23 Plug Shell only.

| | Screw | Cable | | |
|------------------|-----------|---------|-----------|--------|
| Description | Head Type | Туре | Part Nur | nbers |
| Minimum Quantity | | | 1,000 | 25 |
| 5 to 6 Poles | Philips | Bundled | 115G23-BK | 115G23 |

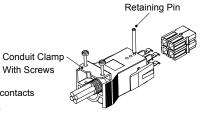
Flexible Conduit Clamp & Hardware Pak

Includes cable clamp, 2 screws, and need amount of retaining pins for each configuration.

| Description | Part Number |
|------------------|-------------|
| Minimum Quantity | 100 |
| 2 to 4 Poles | 110G10 |

Retaining Pins Clar

Shell, housing and contacts are sold separately.



Plug Shell With Latch Shown

Shell and housing are sold separately.

Retaining Pin for Snap-in Receptacle Order the number of retaining pins for each receptacle shown in the Snap-in Receptacle

Shell ordering information. Pins are also required for the plug side when the Cable Clamp & Hardware Pak is not ordered.

| Description | Part Numbers | | |
|------------------|--------------|-------|--|
| Minimum Quantity | 1,000 | 100 | |
| Retaining Pin | 110G9-BK | 110G9 | |

- 34 -



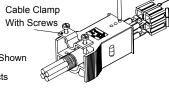
All Data Subject To Change Without Notice

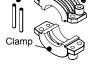
Retaining Pin

Plug Shell Without Latch Shown

Shell, housing and contacts are sold separately.

Screws





Blindmate Pak Connector

2x4 Blindmate Plug Shell, Hardware & Pins

2x4 Blindmate Receptacle Shell, Hardware & Pins

[‡] [21.5] <u>≢</u> 0.85

Description

Minimum Quantity

2x4 Blindmate Plug Shell

Hardware Bag Plug Side

[30.2]

1.19

2x4 Blindmate Receptacle Shell

Hardware Bag Receptacle Side

[4.4]

0.17

Ideal for panel to panel, bulkhead to bulkhead, or rack mount applications that require the power connector to compensate for up to 0.45 in. (11.43 mm) of misalignment in either axis. Eight positions can be filled with Powerpole® 10 to 45 connectors. The receptacle side can be used with wire or PCB contacts. Hardware bag includes retaining pins.

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-

-BMHSG-P

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3.01

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[5.0]

4

BMHSG-R

[88.6]

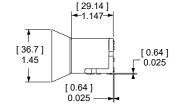
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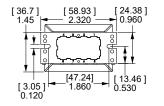
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1 52





See our innovative MARC Connector that offers straight-on or rotational blindmate capability. MARC holds 6 PP15/45 power contacts and 2 PP15/45 premate ground contacts in a high temperature housing. Visit our website <u>www.andersonpower.com</u> to learn more.

Part Numbers

25

-

110G50

110G51

[50.8]

2.00

BMPP10-45P

BMPP10-45R



[86.2]

3.39

[53] 2.09

[51.1]

2.01

[85.8]

3.38

"T" Pak 2 Way Splitter

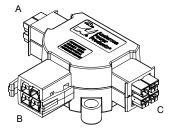
The Powerpole[®] "T" Pak connector is a 2 way electrical splitter that splits electrical current from one incoming circuit into two outgoing circuits. The standard configuration is pre-wired for AC 3 phase, 3 wire plus ground configurations. The "T" Pak can also be used for AC single phase plus ground or DC 2 wire plus ground applications by not using either the red or white power positions. "T" Pak is pre-wired from the factory allowing plug and play field installation of modular office and industrial equipment. UL recognition up to 20 amps and 600 volts is achieved when mating Powerpole[®] Pak plugs with 12 AWG wire.

For OEM manufacturing scale applications, the "T" Pak can be loaded with custom configurations of any of our finger proof, standard, or ground housings and contacts in the PP15/45 series. Contact sales or customer service for additional information.

| Description | Part Numbers |
|-------------------------------------|--------------|
| Minimum Quantity | 80 |
| Assembled "T" Pak | 20-01 |
| Mating Plug Shell with Latch 2x2 | 26-01 |
| Mating Plug Shell without Latch 2x2 | 27-01 |

Standard configuration for each side of the T includes (1) each Red, Black, and White Standard PP15/45 Housings & 261G2-LPBK contacts with (1) 45A Green Premate Ground Housing and 1830G1-LPBK contact.

Mating plug shells include (1) each Red, Black, and White Standard PP15/45 Housings & (3) 261G2-LPBK contacts with (1) 45A Green Premate Ground Housing and 1830G1-LPBK contact. Cable clamp & hardware pack also included.



27 - 01 Mates With B



[102.2] 4.03

> [43.2] 1.70

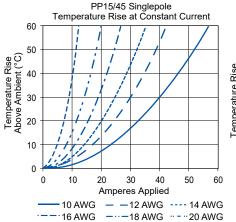
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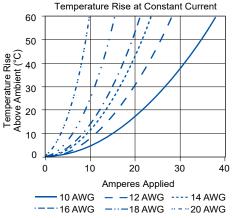
26 - 01 Mates With A & C



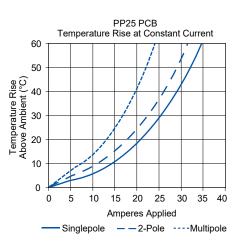
25°C ambient temperature.

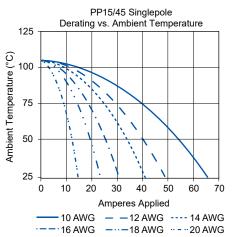
Current - Temperature Derating per IEC 60512-5-2 Test 5B

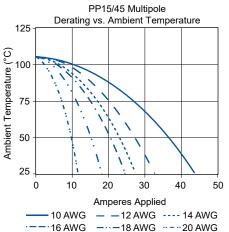


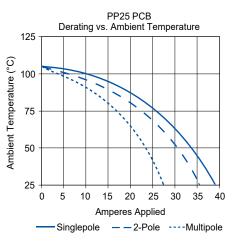


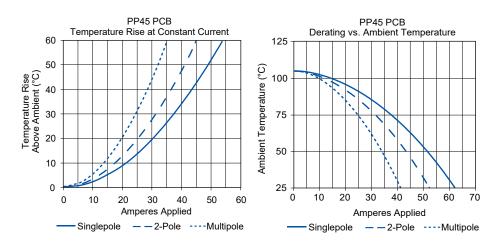
PP15/45 Multipole











NOTE: PP25 PCB charts based on 0.002 in² foil on board side, mated to 12 AWG conductor on wire side. PP45 PCB charts based on 10 AWG equivalent copper foil on board side, mated to 10 AWG conductor on wire side.

- 36 -

PP15/45 & POWERPOLE® PAK SPECIFICATIONS

| • | | |
|--|-----------|--------------|
| ELECTRICAL | | |
| Current Rating Amperes ¹ | UL 1977 | CSA / TUV |
| Singlepole Wire-to-Wire (10 AWG) | 55 | 40 |
| Singlepole Ground Wire-to-Wire or PCB (10 AWG) | 45 | 35 |
| 3x3 Block Wire-to-Wire (10 AWG) | 40 | 27 |
| Singlepole 25A PCB-to-Wire (12 AWG) | 25 | - |
| 2x3 Block 25A PCB-to-Wire (12 AWG) | 25 | 22 * |
| Singlepole 45A PCB-to-Wire (10 AWG) | 45 | 40 * |
| 2x3 Block 45A PCB-to-Wire (10 AWG) | 45 | 25 * |
| Voltage Rating AC/DC | | |
| UL 1977 | 600 | |
| Dielectric Withstanding Voltage | | |
| Volts AC | 2,200 | |
| Avg. Mated Contact Resistance Milliohms ¹ | | |
| 15A Wire Contact with 5/8" of 16 AWG | 0.875 | |
| 30A Wire Contact with 5/8" of 12 AWG | 0.600 | |
| 45A Wire Contact with 5/8" of 10 AWG | 0.525 | |
| 45A PCB Contact to Contact | 0.500 | |
| 25A PCB Contact to Contact | 0.600 | |
| UL Hot Plug Current Rating Amperes ⁵ | | |
| 250 Cycles at 72V DC | 45A | |
| 250 Cycles at 120V DC | 30A | |
| UL Ground Short Time Current Test - 45A Premate Gr | ound | |
| 750 Amps, 10 AWG Wire | 4 Seconds | |
| 470 Amps, 12 AWG Wire | 4 Seconds | |
| | | |

MATERIAL

| Housing | |
|-----------------------------|-----------------------------|
| Plastic Resin | Polycarbonate |
| Contact Retention Spring | Stainless Steel |
| Housing Flammability Rating | |
| UL94 | V-0 |
| Glow Wire | 825°C (GWFI) / 800°C (GWIT) |
| Contact | |
| Base | Copper Alloy |
| Plating | Tin or Silver |
| Contact Termination Methods | |
| Crimp ³ | Wire Contacts |
| Hand Solder | 1331, 1332 & PCB Contacts |
| Solder Dip | PCB Contacts |
| Wave Solder | PCB Contacts |
| Wave Solder | PCB Contacts |





| MECHANICAL | | |
|--|--------------------|-------------|
| Wire Size Range | AWG | mm² |
| | 20 to 10 | 0.75 to 6.0 |
| Max. Wire Insulation Diameter | in. | mm |
| | 0.175 | 4.450 |
| Operating Temperature ² | °F | °C |
| Powerpole [®] Housings & Powerpole [®] Pak Shells | -4° to 221° | -20° to 105 |
| Mating Cycles No Load by Plating | Silver (Ag) | Tin (Sn) |
| PCB-to-Wire | - | 1,500 |
| Wire-to-Wire | 10,000 | 1,500 |
| Avg. Mating / Unmating Force | Lbf. | Ν |
| Low Force Wire, High Force PCB, & Ground | 3 | 13 |
| High Force Wire | 5 | 22 |
| Low Force PCB | 2 | 9 |
| Min. Contact / Spring Retention Force | Lbf. | Ν |
| | 20 | 90 |
| Powerpole [®] Pak Latch | Lbf. | Ν |
| Avg. Defeat Force | 150 | 667 |
| PCB Specifications | | |
| Mounting Style | Plated Through | Hole |
| PCB Thickness - in. (mm) | 0.090 to 0.150 | 2.3 to 3.8 |
| 25A PCB Recommended Traces | 12 AWG Cross S | ection |
| 45A PCB Recommended Traces | 10 AWG Cross S | ection |
| Mechanical Shock ⁴ | | |
| MIL-STD-202 | 213 Condition A | 50g′s |
| Vibration High Frequency ⁴ | | |
| MIL-STD-202 | 204 Condition A | 10g's |

NOTE 1: See IEC 60664-1 for working voltage.

NOTE 2: Amp ratings are stated per position and based on all positions being fully loaded.

* No TUV Recognition

1 - 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.

- 2 Limited by the thermal properties of the connector plastic housing.
- 3 Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.
- 4 Tested with contact part number 261G2.
- 5 Based on 2 housings blocked together.



IEC INFORMATION

| Connector Series | Configurations | | Creepage / Clearance per IEC 60950-1 | Material Group |
|------------------|--------------------|---------|---|-------------------|
| | Single Pole | Unmated | 1.64 mm | |
| | | Mated | 1.64 mm | |
| | Stacked Powerpole® | Unmated | 1.64 mm | |
| PP15/45 | | Mated | 1.64 mm | |
| Standard | РСВ - 25А | Unmated | 1.64 mm | Illa |
| | | Mated | 1.64 mm | |
| | РСВ - 45А | Unmated | 1.39 mm | |
| | | Mated | 1.39 mm | |

| Connector Series | Configurations | | Creepage / Clearance per IEC 60950-1 | Material Group |
|------------------|--------------------|---------|---|-------------------|
| | Single Pole | Unmated | 1.64 mm | |
| | | Mated | 4.20 mm | |
| | Stacked Powerpole® | Unmated | 1.64 mm | |
| PP15/45 | | Mated | 4.20 mm | |
| Finger Proof | РСВ - 25А | Unmated | 1.64 mm | llla |
| | | Mated | 2.90 mm | |
| | РСВ - 45А | Unmated | 1.39 mm | |
| | | Mated | 1.39 mm | |

| ATTRIBUTES | PP45 | PP45 FINGER PROOF |
|---|---|---|
| AMP Rating AC/DC | 45 | 45 |
| Voltage Rating AC/DC (Steady State) | 160 V AC/DC (Operational) | 400 V AC/DC (Operational) |
| Breaking Capacity - AMP Rating / Cycles | 30 Amp / 10 Cycles | 30 Amp / 10 Cycles |
| Voltage Rating (Breaking Capacity) | 220 VDC | 220 VDC |
| FINGER Safety - Mated Only | IEC 60529 - IP20 | IEC 60529 - IP20 * |
| Wire Size Tested | 6 mm² | 6 mm² (10AWG) |
| Contact Series Tested | 200G3L | 200G3L |
| Climatic Testing (Cold, Heat & MFG) | IEC 60512 Test - 11j, 11i & 11g | IEC 60512 Test-11j, 11i & 11g |
| Cycle Life | IEC 60512 Test 9a - 5,000 Cycles | IEC 60512 Test 9a- 5,000 Cycles |
| Mechanical Strength Impact | IEC 60512-5 @ 29.5 Inches - Dropped 8 Times | IEC 60512-5 @ 29.5 Inches - Dropped 8 Times |
| Temperature Range | -20°C to 105°C | -20°C to 105°C |
| | -4°F to 221°F | -4°F to 221°F |

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* Mated and unmated for the PP15/45 FP version only

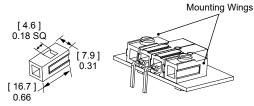
| PROTECTION | |
|--|---------------------------|
| Touch Safety with Finger Proof Hou PCB Mating Interface | usings & Wire Contacts or |
| UL1977 Sec. 10.2 | Pass |
| IEC 60950 | Pass |
| IEC 60529 | IP20 |
| Touch Safety With Standard Housi | ngs |
| IEC 60529 | IP10 |

POWERPOLE® 15/45 ACCESSORIES

Mounting Wing

Secure dovetailed Powerpole® 15/45 series housings by passing fasteners through the wings in either a horizontal or vertical orientation. Useful for sheet metal panels, printed circuit boards, and many other mounting surfaces. Fasteners not included.

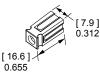
| Description | Part Nun | nbers |
|------------------|-----------|--------|
| Minimum Quantity | 2,500 | 100 |
| Red | 1399G9-BK | 1399G9 |
| Blue | 1399G8-BK | 1399G8 |
| | | |



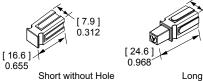
Spacer

Used to separate housings under high power to minimize derating. They are recommended for squaring off a block of Powerpole® 15/45 housings for use in connector shells and mounting clamps. Use a combination of long and short spacers opposite each other in a mated block to add keying features or use two short spacers to avoid interference. Spacers with holes can also be used to fasten the blocked housings to a surface with a fastener.

| Description | Part Num | bers |
|----------------------|------------|---------|
| Minimum Quantity | 2,500 | 100 |
| Red, Short w/ Hole | 1399G1-BK | 1399G1 |
| Red, Long | 1399G2-BK | 1399G2 |
| Red, Short | 1399G6-BK | 1399G6 |
| Black, Long | 1399G10-BK | 1399G10 |
| Blue, Short | 1399G13-BK | 1399G13 |
| White, Short w/ Hole | 1399G14-BK | 1399G14 |
| White, Long | 1399G17-BK | 1399G17 |



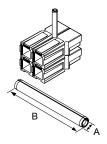
Short with Hole





Keep stacked Powerpole[®] 15/45 series housings from separating. Retaining pins are inserted in the circular opening between two housings stacked side by side.

| | | | | Dimensions | | |
|------------------|----------|--------|---------------|--------------|--------|--------|
| | | | - A - | | - B - | |
| Description | Part Nur | mbers | inches | mm | inches | mm |
| Minimum Quantity | 1,000 | 100 | | | | |
| 1 Block High | H1507P38 | 110G16 | 0.093 / 0.103 | 2.360 / 2.62 | 0.250 | 6.350 |
| 2 Block High | 111812P5 | 110G17 | 0.093 / 0.103 | 2.360 / 2.62 | 0.440 | 11.180 |



Mounting Clamp

Mounting clamps can be used for fastening a block of Powerpole® 15/45 series housings to a panel. Connector blocks must be a complete square for the clamps to work properly. Fastening hardware not included.

| art Numbers |
|--------------|
| 00 sets of 2 |
| 462G1 |
| 462G2 |
| 462G3 |
| |









4 or 8 Pole

[7.9]

0.312



PCB Mounting Staples

PCB staples are soldered into place to secure Powerpole® 15/45 series housings in a horizontal configuration to the board. Reduce strain on soldering joints during mating and unmating.

| | | | | Dime | ensions | |
|------------|------------|--------|--------|------|---------|------|
| Part | | | - A | - | - E | 3 - |
| Numbers | HxW | Length | inches | mm | inches | mm |
| Minimum Qu | uantity 10 | 00 | | | | |
| 114555P1 | 1 x 1 | Short | 0.47 | 12.0 | 0.28 | 7.0 |
| 114555P2 | 1 x 2 | Short | 0.47 | 12.0 | 0.57 | 14.5 |
| 114555P3 | 1 x 3 | Short | 0.47 | 12.0 | 0.89 | 22.5 |
| 114555P7 | 1 x 4 | Short | 0.47 | 12.0 | 1.20 | 30.5 |
| 114555P10 | 2 x 1 | Short | 0.79 | 20.0 | 0.28 | 7.0 |
| 114555P6 | 2 x 2 | Short | 0.79 | 20.0 | 0.57 | 14.5 |
| 114555P9 | 2 x 2 | Long | 0.91 | 23.0 | 0.57 | 14.5 |
| | | | | | | |



Retention Clip

Retention clips prevent Powerpole® 15/45 blocks from unintended disconnects. They feature a tab for easy insertion and removal.

| Description | Part Number |
|------------------|-------------|
| Minimum Quantity | 100 |
| 1 Block High | 110G68 |

Block Lok

Block locks secure mated Powerpole® 15/45 series housings together. For use in high vibration or shock applications where connectors are unmated infrequently.

| Description | Part Numbers |
|------------------|--------------|
| Minimum Quantity | 100 |
| 2 Pole, Black | 110G21 |
| 4 Pole, Black | 110G12 |
| | |

Splash Boot

Splash boots protect a 2x2 block of any combination of Powerpole® 15/45 series housings and feature snip off sealed ends for flexibility in wire O.D. Designed for through panel or inline applications. Not a hermetic seal.

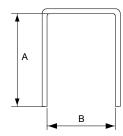
| Description | Part Numbers |
|------------------|--------------|
| Minimum Quantity | 25 |
| Female, Black | 1441G1 |
| Male, Black | 1442G1 |

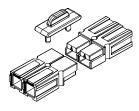
Dust Cover for Powerpole® Pak

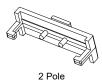
Protect your Powerpole[®] Pak connector from most foreign material and potentially prevent premature degradation of the product. Contact customer service for the other possible configurations.

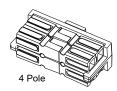
| Description | Part Numl | pers | Dimensions - A - |
|--|-------------------------------------|-----------------------------|----------------------------|
| Minimum Quantity 2x2, Orange 2x3, Orange | 2,500 2-8831P1-BK 2-8831P2-BK | 500 2-8831P1 2-8831P2 | 1.32 (33.5) 1.42 (36.0) |

For environmentally sealed connector shells to hold Powerpole[®] 15 to 180 connectors, see SPEC Pak[®] product series on our website <u>www.andersonpower.com</u>



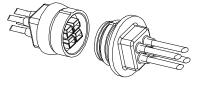


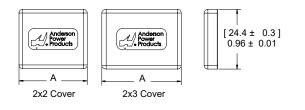




Shown without Powerpoles

Shown with Powerpoles







- 40 -

Powerpole®

Tooling Information - APP[®] Applicators are Mechanical Feed Style and do not Require an Air Feed Kit.

| AWGmm ⁴ The PlatingSilver PlatingHand TooORBench*Die*Dicatorof I6161.3 to 0.52N/A1332130962130962130962131013101309621310130962131013096213101309621310130962131013096213101309621309631309 | Wire | Size | Loose Piece | Loose Piece Contact Crimp Tools | | | | | | | | | | |
|---|----------|-------------|-------------------|---------------------------------|----------------|-------|-------------|---------|---------|---------|---------|---------------------|--------|--------|
| 16 to 20 1.3 to 0.52 N/A 1332 1309G2 0'' 1309G3 | NG | mm² | Tin Plating | Silver Plating | Hand Tool | OR | Bench | + | Die | + | Locator | Number of Crimps | | |
| 12 to 16 3.3 to 1.3 N/A 1331 130962 13052 26261-PBK 26261-PBK 130962 130963 | | | | PP15 / 4 | 45 Flat Wiping | g Pow | er & Ground | | | | | | | |
| 11.1 1.1 10 11.1 10 <td>to 20</td> <td>1.3 to 0.52</td> <td>N/A</td> <td>1332</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | to 20 | 1.3 to 0.52 | N/A | 1332 | | | | | | | | | | |
| 16 1 2 0.0 1.3 1 0.0 1.5 0.0 20 0 0.0 1.7 0 0.0 1.7 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0 | to 16 | 3.3 to 1.3 | N/A | 1331 | | | | | | | | | | |
| 161 to 20 26962-UBK N/A Image: Constraint of the sector o | to 20 | 1.3 to 0.52 | 262G1-LPBK | 262G2-LPBK | | | | | | | | | | |
| 1010 14 5.3 to 2.1 26162-PBK 26163-PBK 130963 < | to 20 | 1.3 to 0.52 | 269G2-LPBK | N/A | | | | | | | | | | |
| 100 143.5 0 2.1200 10 K200 10 K200 10 K012 to 163.3 to 1.3269 G1-IPBKN/A1309 G81309 G8N/A | to 16 | 3.3 to 1.3 | 261G1-LPBK | N/A | | | | | | | | | | |
| 12 to 16 3.3 to 1.3 269G1-LPBK N/A 1309G8 10 to 14 5.3 to 2.1 269G3-LPBK N/A 10 to 14 5.3 to 2.1 200G1L-LPBK 200G3L-LPBK 1309G6 10 to 14 5.3 to 2.1 201G1H-LPBK N/A 1309G6 1309G6 10 to 14 5.3 to 2.1 201G1H-LPBK N/A 1309G6 10066 11006 310 to 14 5.3 to 2.1 1830G1-LPBK 1830G2-LPBK 1309G6 110066 11006 6 8.4 5950 1875G1 1388G61 1389G61 1388G63 1388G63 138 | to 14 | 5.3 to 2.1 | 261G2-LPBK | 261G3-LPBK | | | | | | | N/A | Single | | |
| 101014 5.3 to 2.1 269G3-LPBK N/A - < | to 16 | 3.3 to 1.3 | 269G1-LPBK | N/A | | | N/A | | N/A | | | | | |
| 10 to 14 53 to 2.1 201G H-LPBK N/A 1309G6 1309G6 Image: Section of the secti | to 14 | 5.3 to 2.1 | 269G3-LPBK | N/A | | | | | | | | | | |
| 10 to 14 5.3 to 2.1 201G 11-LPBK IXA 0 1309G8 0 10 | to 14 | 5.3 to 2.1 | 200G1L-LPBK | 200G3L-LPBK | | | | | | | | | | |
| 310 to 14 3.5 to 2.1 1830G1-LPBK 1830G2-LPBK 130968 I | to 14 | 5.3 to 2.1 | 201G1H-LPBK | N/A | | | | | | | | | | |
| 6 13.3 1307 1307 1307 138960 138960 138961 | 0 to 14 | 5.3 to 2.1 | 1830G1-LPBK | 1830G2-LPBK | | | | | | | | | | |
| 6 13.3 5900 5900 187561 5952 138761 5952 138761 5952 138761 138866 1389621 1389624 | | | I | | PP7 | 5 | 1 | | 1 | | 1 | 1 | | |
| 8.4 187561 138866 1389621 952 130964 138761 138866 1389621 10 to 12 5.3 to 3.3 167562 130964 138761 138867 138966 1389621 10 to 12 5.3 to 3.3 167562 130964 138761 138867 138966 138962 10 to 12 5.3 to 3.3 137563 137563 138867 138966 138966 10 to 12 5.3 to 3.3 132362 132361 138868 138863 138864 138964 514 10 to 12 53.5 131964 1368 Series 138761 138864 138964 514 10 to 12 53.5 131964 1368 Series 138761 138864 138964 514 10 to 12 131964 131964 138864 138864 138964 514 10 to 12 131964 131964 138864 138864 188964 514 10 to 12 131964 131964 138964 188964 188964 188964 188964 188964 188964 188964 <td< td=""><td></td><td></td><td></td><td>1307</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | 1307 | | | | | | | | | | |
| 10 to 12 5.3 to 3.3 5952 130964 138761 4 138966 1389621 138966 1389621 138966 1389621 1389661 1389621 1389661 1389621 1389661 1389621 1389661 1389621 1389661 1389621 1389661 1389624 1389624 1389644< | | 13.3 | | 5900 | _ | | | | | | 1389G6 | | | |
| 10 to 12 5.3 to 3.3 187562 138964 138761 4.4 1389621 1389624 1 | | 8.4 | | 1875G1 | _ | | 1388G6 | 1388G6 | | 1389G21 | 1 | | | |
| 10 to 12 5.3 to 3.3 Image: state st | | | | 5952 | 100001 | | 100701 | | | | | | 1389G6 | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 10 to 12 | 5.3 to 3.3 | N/A | 1875G2 | - 1309G4 | 1 | 1387G1 | | | | | 1389G21 | Single | |
| 5915 5915 138867 138867 100 1389621 187563 187563 1389621 1389621 1389621 100 53.5 132362 132361 138867 138863 138863 138964 1 | | | | 5953 | | | | | | | | 100000 | | |
| 1/0 53.5 1323G2 1323G1 1388G3 1388G3 1388G4 1389G4 | | | | 5915 | | | | | | | 13 | | 1388G7 | 1388G7 |
| | | | | 1875G3 | | | | | | | | 1389G21 | | |
| 1 42.4 2 33.6 4 21.2 5 1319G4 1319G4 1319G4 1319G4 1388G4 1319G4 1388G4 1319G4 1319G4 1319G6 1388G4 1319G4 1319G4 1319G4 1319G4 1319G4 1319G4 1319G4 1319G6 | | | 1 | _ | PP12 | 20 | 1 | | | | | | | |
| 1 42.4 2 33.6 4 21.2 5 1319G4 1319G4 1319G4 1319G4 1319G4 1319G4 1319G4 1319G6 1388G4 1319G6 1388G4 1319G6 1388G4 1319G6 1388G4 1319G6 1388G4 | 0 | 53.5 | | 1323G2 | | | | | 1200.02 | | | | | |
| 4 21.2 131964 138864 6 13.3 131966 138864 | | 42.4 | | 1323G1 | | | | | 138863 | | | | | |
| 6 13.3 1319G6 I | | 33.6 | N/A | 1319 | 1368 Series | | 1387G1 | | | 1389G4 | 1389G4 | Single | | |
| PP180 3/0 85 1328G2 | | 21.2 | | 1319G4 | | | | | 1388G4 | | | | | |
| 3/0 85 1328G2 1303G12 | | 13.3 | | 1319G6 | | | | | | | | | | |
| 1303G12 | | | | | PP18 | 30 | | | | | | | | |
| 2/0 53.5 1328G1 | D | 85 | | 1328G2 | 1368 Series | | 138762 | 1 | 1202012 | | | | | |
| | D | 53.5 | | 1328G1 | | | | | 1303012 | 303G12 | 1204622 | Double | | |
| 1/0 53.5 1382 1387C2 1387C2 1304C32 Da | D | 53.5 | | 1382 | | | | 1303G13 | | | | | | |
| 1 42.4 N/A 1347 1368 Series | | 42.4 | N/A | 1347 | | | | | | 1304G32 | Double | | | |
| 2 33.6 1383 | | 33.6 | | 1383 | | | | | 1202013 | .ο | | | | |
| 4 21.1 1384 | | 21.1 | | 1384 | | | | | | | | | | |
| 6 13.3 1348 1387G1 1388G4 1389G3 Sin | | 13.3 | | 1348 | | | 1387G1 | | 1388G4 | | 1389G3 | Single | | |
| Insertion / Extraction Tool for PP15/45 Contacts = 111038G2 | | | ol for PP15/45 Co | | 2 | 1 | | | 1 | 1 | 1 | | | |

NOTE: see website for the most current information.

- 56 -

| Wir | Wire Size Reeled Part Number | | Reeled Cont | tact | Crimp Tools | | | | |
|------------------------------------|------------------------------|-------------|----------------|--------------------------------|-------------|--------------------------------|--|--|--|
| AWG | mm² | Tin Plating | Silver Plating | APP [®] Applicator | + | APP [®] Press | | | |
| PP15/45 Flat Wiping Power & Ground | | | | | | | | | |
| 16 to 20 | 1.3 to 0.52 | 262G1 | 262G2 | | | | | | |
| 16 to 20 | 1.3 to 0.52 | 269G2 | N/A | | | | | | |
| 12 to 16 | 3.3 to 1.3 | 261G1 | N/A | TD0101 | | | | | |
| 10 to 14 | 5.3 to 2.1 | 261G2 | 261G3 | 100101 | | | | | |
| 12 to 16 | 3.3 to 1.3 | 269G1 | N/A | | | 115V = TE0101 230V = TE0102 | | | |
| 10 to 14 | 5.3 to 2.1 | 269G3 | N/A | | | 2001 120102 | | | |
| 10 to 14 | 5.3 to 2.1 | 200G1L | 200G3L | | | | | | |
| 10 to 14 | 5.3 to 2.1 | 201G1H | N/A | TD0102 | | | | | |
| 10 to 14 | 5.3 to 2.1 | 1830G1 | 1830G2 | | | | | | |

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