

# EXTREME SPEC Pak™

Sealed Power For Environmental Connections



Marine | Wind Power | Lighting | Transportation | Pumps | Ground Support  
Machine Tool | Industrial Automation | Motor | Solar Power | Harsh Environments



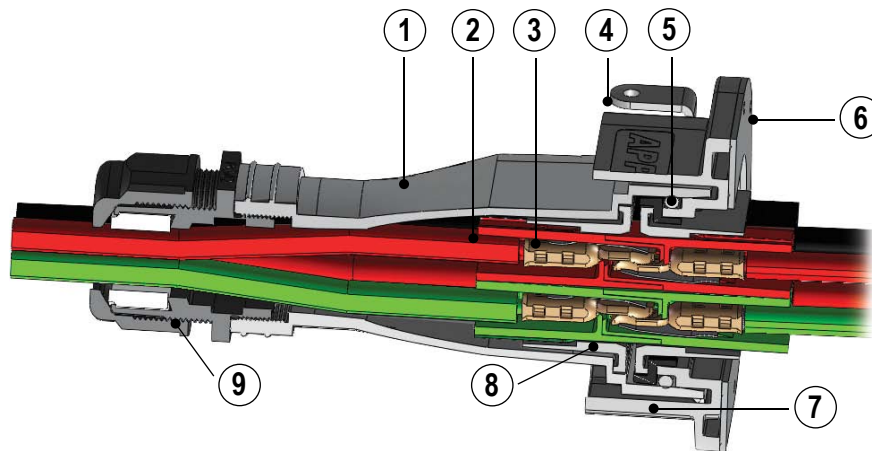
**APP**  
Anderson Power Products®

# Rugged and Sealed (IP68) Plugs and Receptacles

For Use with APP® Powerpole® Signal, Power & Ground Contacts & Housings

The SPEC Pak™ Extreme uses rugged and environmentally sealed (IP68) shells to protect APP Powerpole® contacts and housings. Customer configured SPEC Pak™ Extreme Connectors are capable of up to 320 amps and may be used anywhere a rugged and/or waterproof high power, signal and ground interconnect solution is required.

The SPEC Pak™ Extreme shell accepts 75 to 180 amp Powerpole® contacts. The wide range of Powerpole® housing colors and contact sizes, coupled with the available Powerpole® holders, offers the user a wide array of design options. Flexibility can be enhanced by replacing a PP120 housing with the PP 15/45 adapter to provide auxiliary signal options. Wire sizes ranging from 20 to 3/0 AWG (0.5 to 85.0 mm²) can be accommodated. SPEC Pak™ Extreme is highly configurable with thousands of design options in a single interconnect.



## 8 Powerpole® Insert Holders



E02



E04



E06



E09

- 1 - Chemical & UV Resistant Ruggedized Plug Shell
- 2 - Color Coded Powerpole® Housings Match Wire Colors
- 3 - Power Contacts (up to 310 amps)
- 4 - Stainless Steel Latches (securing plug to receptacle)
- 5 - IP68 Interfacial Sealing O-Ring
- 6 - IP68 Panel Mount Sealing Gasket
- 7 - Chemical & UV Resistant Ruggedized Panel Mount Receptacle Shell

## 8 - Powerpole® Insert Holders (user configurable)

- E02 Arrangement - up to two PP180
- E04 Arrangement - up to four PP120
- E06 Arrangement - up to six PP120 (4) & PP75 (2)
- E09 Arrangement - up to nine PP75

## 9 - Industry Standard Sealing (IP68) Components

- PG Gland Compatible - Size 42
- Multi-hole Glands For Use With Discrete Wires
- Single Hole Glands For Use With Jacketed Cable

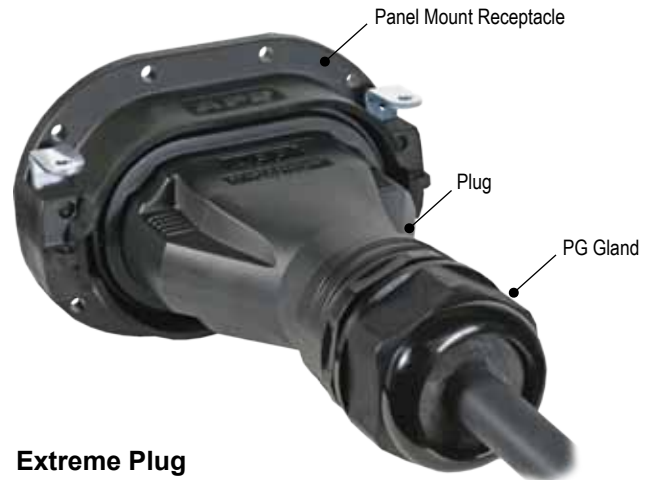
# Specifications

## Extreme SPEC Pak™ Shell / Components

| Electrical                              | Extreme      |
|-----------------------------------------|--------------|
| UL Voltage Rating (AC/DC)               | 600          |
| Dielectric Withstanding Voltage (AC)    | 3000         |
| Operating Temperature (°C)              | -20 to + 105 |
| (°F)                                    | -4 to 221    |
| Flammability Rating of SPEC Pak™ Shells | UL94 V-0     |
| UV Rating (equivalent)                  | UL746C F1    |

| Mechanical                                                |       |
|-----------------------------------------------------------|-------|
| Shell/Latch Mating Cycles                                 | 1,500 |
| Average Connect/Disconnect (lbf)                          | 37    |
| (N)                                                       | 165   |
| IP Rating                                                 | IP68  |
| Sealing Exceeds IP68, Meets Sealing Requirements of UL50E |       |
| Crush Test per EIA-364-40B                                | Pass  |

| Material                                             |                 |
|------------------------------------------------------|-----------------|
| SPEC Pak™ - Receptacle, Plug & Holders               | PBT             |
| Latch                                                | Stainless Steel |
| Latch Retainer                                       | Stainless Steel |
| Holder Retention Hardware (M8 x 18 & M8 x 25 screws) | NI Plated Steel |



**Extreme Plug  
Mated To Panel Mount Receptacle**

| Powerpole® Contacts                     | PP180         | PP120         | PP75            | PP15/45 & Ground |
|-----------------------------------------|---------------|---------------|-----------------|------------------|
| UL Current Rating (Amperes)             | 310           | 200           | 75              | 15 to 45         |
| CSA (30C Rise) (Amperes)                | 230           | 155           | 45              | 10 to 29         |
| Voltage Rating (AC/DC)                  | 600           | 600           | 600             | 600              |
| Contact Barrel Wire Size (AWG) - Power  | 3/0 to 6      | 1/0 to 6      | 6 to 12         | 10 to 20         |
| - Ground                                | -             | -             | -               | 10 to 14         |
| (mm²) - Power                           | 85 to 13.3    | 53.5 to 13.3  | 13.3 to 3.3     | 4.0 to 0.5       |
| - Ground                                | -             | -             | -               | 4.0 to 1.5       |
| Average Contact Resistance (micro-ohms) | 100           | 136           | 200             | 600              |
| Contact Retention Force (lbf)           | 170           | 100           | 50              | 25-35            |
| (N)                                     | 756           | 445           | 222             | 111              |
| Operating Temperature (°C)              | -20 to 105    | -20 to 105    | -20 to 105      | -20 to 105       |
| (°F)                                    | -4 to 221     | -4 to 221     | -4 to 221       | 40 to 221        |
| Flammability Rating                     | UL94 V-0      | UL94 V-0      | UL94 V-0        | UL94 V-0         |
| Contact Materials                       | Copper        | Copper        | Copper          | Copper           |
| Contact Plating                         | Silver        | Silver        | Silver          | Tin or Silver    |
| <b>Mechanical</b>                       |               |               |                 |                  |
| Mating Cycles - No Load                 | 10,000        | 10,000        | 10,000          | 10,000           |
| Average Connect/Disconnect (lbf)        | 20            | 8             | 5 (Low Detent)  | 3 (Low Detent)   |
| (single mated pair)                     |               |               | 7 (High Detent) | 5 (High Detent)  |
| <b>Material</b>                         |               |               |                 |                  |
| Powerpole® Housing Material             | Polycarbonate | Polycarbonate | Polycarbonate   | Polycarbonate    |

NOTE: Agency approvals - TUV Pending **cULUS** File No. E26226  
/ Patents & Patents Pending



# Part Number Configurator

## PART NUMBER PLAN

SPEC Pak™ Series (1 Fixed Character)    Shell Color (1 Character)    Shell Style (1 Character)    Dash    Shell Size (mm) (3 Characters)    Insert Arrangement (3 Characters)

**S**

S = SPEC Pak™ Series

**K**

K = Black

**2**

2 = Panel Mount Receptacle  
6 = Straight Plug  
9P = Environmental Plug Cover

**-**

**142**

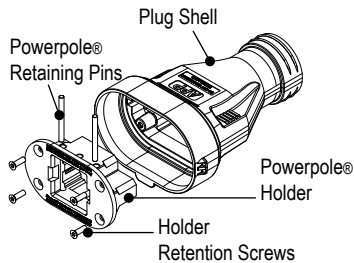
142 = 142mm shell

**E02**

Detailed Information  
Is Available On:

|                                       |         |
|---------------------------------------|---------|
| E02 = PP180, 2 Pole .....             | Page 7  |
| E04 = PP120 Housing, 4 Pole .....     | Page 8  |
| E06 = PP120 (4), PP75 (2), 6 Pole ... | Page 9  |
| E09 = PP75, 9 Pole .....              | Page 10 |

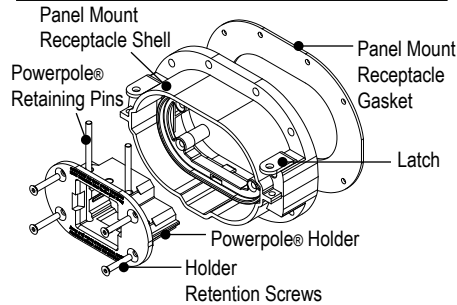
### PLUG KIT



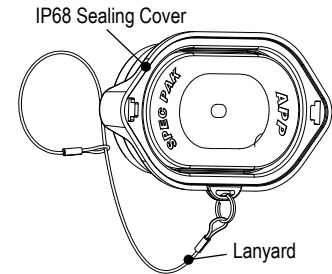
**NOTE:**

- Panel mount receptacle mounting hardware (8 each ¼ inch or M6 screw) not included
- Recommended torque for panel mount receptacle mounting hardware is 26 to 30 inch - lbs [3 to- 3.4Nm]

### RECEPTACLE KIT



### PLUG COVER



## ORDERING INFORMATION

### SPEC Pak™ Kits

| Part Number | Description                                                                                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SK2-142E02  | Receptacle Kit <ul style="list-style-type: none"><li>- Panel mount shell with latches</li><li>- Panel mount gasket</li><li>- Powerpole® holder - 2 pole</li><li>- Retaining pins - 0.187 x 1.5</li><li>- Holder retention screws - M5 x 25</li></ul>                                         |
| SK2-142E04  | Receptacle Kit <ul style="list-style-type: none"><li>- Panel mount shell with latches</li><li>- Panel mount gasket</li><li>- Powerpole® holder - 4 pole</li><li>- Retaining pins - 0.187 x 2.0</li><li>- Holder retention screws - M5 x 25</li></ul>                                         |
| SK2-142E06  | Receptacle Kit <ul style="list-style-type: none"><li>- Panel mount shell with latches</li><li>- Panel mount gasket</li><li>- Powerpole® holder - 6 pole</li><li>- Retaining pins - 0.187 x 2.0</li><li>- Retaining pins - 0.187 x 0.87</li><li>- Holder retention screws - M5 x 25</li></ul> |
| SK2-142E09  | Receptacle Kit <ul style="list-style-type: none"><li>- Panel mount shell with latches</li><li>- Panel mount gasket</li><li>- Powerpole® holder - 9 pole</li><li>- Holder Retention Screws - M5 x 25</li></ul>                                                                                |

| Part Number | Description                                                                                                                                                                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SK6-142E02  | Plug Kit <ul style="list-style-type: none"><li>- Plug shell</li><li>- Powerpole® holder - 2 pole</li><li>- Retaining pins - 0.187 x 1.5</li><li>- Holder retention screws - M5 x 18</li></ul>                                                                  |
| SK6-142E04  | Plug Kit <ul style="list-style-type: none"><li>- Plug shell</li><li>- Powerpole® holder - 4 pole</li><li>- Retaining pins - 0.187 x 2.0</li><li>- Holder retention screws - M5 x 18</li></ul>                                                                  |
| SK6-142E06  | Plug Kit <ul style="list-style-type: none"><li>- Plug shell</li><li>- Powerpole® holder - 6 pole</li><li>- Retaining pins</li><li>- Retaining pins - 0.187 x 2.0</li><li>- Retaining pins - 0.187 x 0.87</li><li>- Holder retention screws - M5 x 18</li></ul> |
| SK6-142E09  | Plug Kit <ul style="list-style-type: none"><li>- Plug Shell</li><li>- Powerpole® holder - 9 pole</li><li>- Holder retention screws - M5 x 18</li></ul>                                                                                                         |

### Component Replacement Parts

| Part Number | Description                            |
|-------------|----------------------------------------|
| H1120P49    | Screw M5x25 (for use in w/ receptacle) |
| H1120P48    | Screw M5x18 (for use in w/ plug)       |
| 111812P12   | Retaining pin 0.187 x 2.0              |
| 111812P11   | Retaining pin 0.187 x 0.87             |
| 111812P1    | Retaining pin 0.094 x 0.85             |
| 114896P1    | Panel gasket (for use w/ receptacle)   |
| 111812P8    | Retaining pin 0.187 x 1.5              |
| 2400G1      | PP15/45 housing adapter                |

### Cover Kit

| Part Number | Description                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------|
| SK9P-142    | Plug Protective Cover <ul style="list-style-type: none"><li>- Protective sealing (IP68) cover</li><li>- Lanyard</li></ul> |

NOTE: Contact factory for receptacle cover.

## PART NUMBER PLAN

| Wire Protection                                            |  | Housing Arrangement                                       |  | Contact                                                    |  | APP® Content       |  |
|------------------------------------------------------------|--|-----------------------------------------------------------|--|------------------------------------------------------------|--|--------------------|--|
| See page 6<br>(4 Characters)                               |  | For more information see pages 7 thru 10<br>(1 Character) |  | For more information see pages 7 thru 10<br>(2 Characters) |  | (3 Characters)     |  |
| Dash                                                       |  | Dash                                                      |  | Dash                                                       |  | Dash               |  |
| PS                                                         |  | 00                                                        |  | -                                                          |  | 0                  |  |
| 00 = None<br>PS = Plastic Short<br>PM = Plastic Multi-hole |  | 00 = None<br>00 - 99 = Various Gland Type                 |  | -                                                          |  | 0                  |  |
|                                                            |  | Available in<br>Insert Arrangement                        |  | Contact                                                    |  | Wire Size          |  |
|                                                            |  | 0 = Custom Configuration                                  |  | Code                                                       |  | AWG (mm²)          |  |
|                                                            |  | A = AC Single Phase                                       |  | Contact                                                    |  | Available in       |  |
|                                                            |  | B = AC 3 Phase, 3 Wire                                    |  | 00 = Custom Configuration - Use Next section               |  | Insert Arrangement |  |
|                                                            |  | C = DC 2 Circuit, 4 wire                                  |  | 11 = 5900 #6 (13.3)                                        |  | E06, E09           |  |
|                                                            |  | Q = DC 2 Circuit, 4 wire with 2 power Auxiliary Circuits  |  | 12 = 5952 #8 (8.4)                                         |  | E06, E09           |  |
|                                                            |  | R = DC 1 Circuit, 2 Wire                                  |  | 13 = 5915 #10/12 (5.3/3.3)                                 |  | E06, E09           |  |
|                                                            |  | Z = All Black                                             |  | 20 = 1323G2 1/0 (53.5)                                     |  | E04, E06           |  |
|                                                            |  |                                                           |  | 21 = 1323G1 #1 (42.4)                                      |  | E04, E06           |  |
|                                                            |  |                                                           |  | 22 = 1319 #2 (33.6)                                        |  | E04, E06           |  |
|                                                            |  |                                                           |  | 23 = 1319G4 #4 (21.2)                                      |  | E04, E06           |  |
|                                                            |  |                                                           |  | 24 = 1319G6 #6 (13.3)                                      |  | E04, E06           |  |
|                                                            |  |                                                           |  | 80 = 1328G2 3/0 (85.0)                                     |  | E02                |  |
|                                                            |  |                                                           |  | 81 = 1328G1 2/0 (67.4)                                     |  | E02                |  |
|                                                            |  |                                                           |  | 82 = 1382 1/0 (53.5)                                       |  | E02                |  |
|                                                            |  |                                                           |  | 83 = 1347 #1 (42.4)                                        |  | E02                |  |
|                                                            |  |                                                           |  | 84 = 1383 #2 (33.6)                                        |  | E02                |  |
|                                                            |  |                                                           |  | 85 = 1384 #4 (21.2)                                        |  | E02                |  |
|                                                            |  |                                                           |  | 86 = 1348 #6 (13.3)                                        |  | E02                |  |

### Part Numbering Notes:

- 1) To order SPEC Pak™ Kits only (no internal Powerpole® housings or contacts), use part numbering on page 4 only. **Plug Kit Example: SK6-142E04.** Powerpole® housings, contacts and wire protection may be ordered separately, see pages 7 thru 10 for information.
- 2) To order customer configured SPEC Pak™ connectors (including internal Powerpole® housings and contacts) use Part Number Plan across the top of pages 4 and 5. **Customer Configured SPEC Pak™ Plug Connector Example: SK6-142E04PS01-A23.**
- 3) To order a custom configuration which is not listed on page 7 thru 10, use APP® custom part number configurator on the APP® website, [www.andersonpower.com](http://www.andersonpower.com) or contact factory.

\* Custom configurations may not be UL Recognized.

# Wire Protection - PG Gland

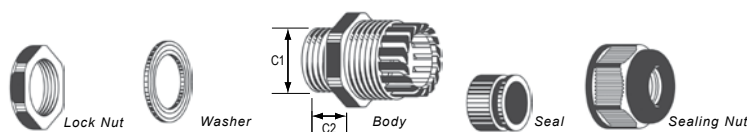
## SPECIFICATIONS

| Material |                         | Mechanical     |                                 | Torque Requirements                                                      |
|----------|-------------------------|----------------|---------------------------------|--------------------------------------------------------------------------|
| Shell    | Nylon PA 66 (UL94 V-2)* | Operating Temp | -40°C to 105°C (-40°F to 221°F) | Cable Gland Body to Plug Housing                                         |
| Gasket   | EPDM                    | IP Rating      | IP68                            | - Hand tighten until snug, tighten additional 1/8 - 1/4 turn with wrench |
| Color    | Black                   | UV Rating      | Equivalent to UL746C F1         | Sealing Nut to Cable                                                     |
|          |                         | Thread Type    | PG                              | - Hand tighten until snug, tighten additional 1/2 - 3/4 turn with wrench |

\* Contact factory for UL94 V-0 material  
 NOTE: Only UL listed cable glands are UL recognized components when used with SPEC Pak™ connector(s).

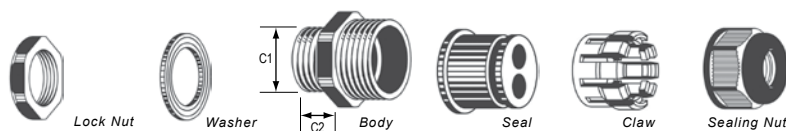


## STRAIGHT PLASTIC SHORT THREAD TYPE - STD PACK 10 / UL LISTED



| APP® P/N   | Wire Protection Designation (4 Characters) | Number Of Holes | Cable Range Wire Outer Dia. mm (in) | Thread O.D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut mm | Wrench Size Sealing Nut mm |
|------------|--------------------------------------------|-----------------|-------------------------------------|------------------------|-----------------------------|--------------------------|-------------------------|----------------------------|
| PL1P42-19X | PS01                                       | 1               | 19.5 - 16.0 (0.77 - 0.63)           | 54 (2.13)              | 54 - 54.4 (2.13 - 2.14)     | 15.5 (0.61)              | 64                      | 62                         |
| PS1P42-32X | PS02                                       | 1               | 32.0 - 26.0 (1.26 - 0.79)           | 54 (2.13)              | 54 - 54.4 (2.13 - 2.14)     | 15.5 (0.61)              | 64                      | 62                         |

## STRAIGHT PLASTIC MULTI-HOLE TYPE - STD PACK 10 / NOT UL LISTED



| APP® P/N   | Wire Protection Designation (4 Characters) | Number Of Holes | Cable Range Wire Outer Dia. mm (in) | Thread O.D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut (mm) | Wrench Size Sealing Nut (mm) |
|------------|--------------------------------------------|-----------------|-------------------------------------|------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|
| PL4P42-10X | PM46                                       | 4               | 10.5 - 8.5 (0.41 - 0.33)            | 54 (2.13)              | 54 - 54.4 (2.13 - 2.14)     | 15.5 (0.61)              | 64                        | 62                           |
| PL6P42-7X  | PM66                                       | 6               | 7.0 - 5.0 (0.28 - 0.20)             | 54 (2.13)              | 54 - 54.4 (2.13 - 2.14)     | 15.5 (0.61)              | 64                        | 62                           |
| PL8P42-7X  | PM86                                       | 8               | 7.0 - 5.7 (0.28 - 0.22)             | 54 (2.13)              | 54 - 54.4 (2.13 - 2.14)     | 15.5 (0.61)              | 64                        | 62                           |

NOTE: Custom PG Glands may be available. Contact customer service for more information.

# E02 Insert Arrangement

Configured with up to 2 PP180 Contacts (up to 310 amps)  
Standard & Custom Configuration Options

## HOUSING ARRANGEMENT

**0** Custom Configuration \*

**DC 1 Circuit, 2 Wire**

**R** 1381G1 1381G3

**All Black**

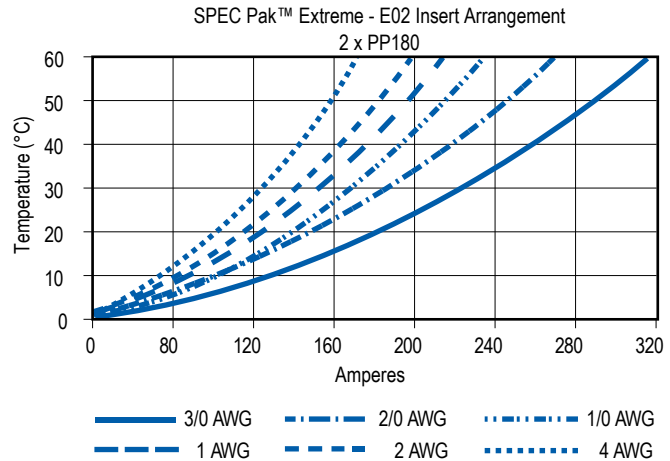
**Z** 1381G1 1381G1

NOTE:

(1) For agency approval, contact factory.

\* For custom configurations, use APP® custom part number configurator at [www.andersonpower.com](http://www.andersonpower.com) or contact the factory.

## TEMPERATURE CHART



## POWERPOLE® CONTACTS & HOUSINGS FOR E02 INSERT ARRANGEMENT

### Contacts

| Contact Code   | Standard    | Standard | Bulk Part | Bulk    |             | Wire Size |
|----------------|-------------|----------|-----------|---------|-------------|-----------|
| Designation    | Part Number | Package  | Number    | Package | Description | (AWG)     |
| PP180 Contacts |             |          |           |         |             |           |
| 80             | 1328G2      | 20       | 1328G2-BK | 100     | Individual  | 3/0       |
| 81             | 1328G1      | 20       | 1328G1-BK | 100     | Individual  | 2/0       |
| 82             | 1382        | 10       | 1382-BK   | 500     | Individual  | 1/0       |
| 83             | 1347        | 10       | 1347-BK   | 500     | Individual  | #1        |
| 84             | 1383        | 10       | 1383-BK   | 500     | Individual  | #2        |
| 85             | 1384        | 10       | 1384-BK   | 500     | Individual  | #4        |
| 86             | 1348        | 10       | 1348-BK   | 500     | Individual  | #6        |

### Contact Housings

| Standard    | Standard | Bulk Bulk   | Bulk    |             |
|-------------|----------|-------------|---------|-------------|
| Part Number | Package  | Part Number | Package | Description |
| PP180       |          |             |         |             |
| 1381G1      | 10       | 1381G1-BK   | 250     | Black       |
| 1381        | 10       | 1381-BK     | 250     | Blue        |
| 1381G4      | 10       | 1381G4-BK   | 250     | Green       |
| 1381G3      | 10       | 1381G3-BK   | 250     | Red         |
| 1381G2      | 10       | 1381G2-BK   | 250     | White       |

NOTE:

(1) See Powerpole® & Multipole Power Connectors Catalog for additional contacts and/or housings options.

(2) Application tooling information is available on page 11.



**E02 Powerpole®  
Insert Holder**

# E04 Insert Arrangement

Configured with up to 4 PP120 Contacts (up to 200 amps)

Standard & Custom Configuration Options

## HOUSING ARRANGEMENT

### 0 Custom Configuration \*

#### AC Single Phase

|   |        |        |
|---|--------|--------|
| A | 1321G1 | 1321G2 |
|   | 1321G4 | E      |

#### AC 3 Phase, 3 Wire

|   |        |        |
|---|--------|--------|
| B | 1321G1 | 1321G2 |
|   | 1321G3 | 1321G4 |

#### DC 2 Circuit, 4 Wire

|   |        |        |
|---|--------|--------|
| C | 1321G1 | 1321G1 |
|   | 1321G3 | 1321G3 |

#### All Black

|   |        |        |
|---|--------|--------|
| Z | 1321G1 | 1321G1 |
|   | 1321G1 | 1321G1 |

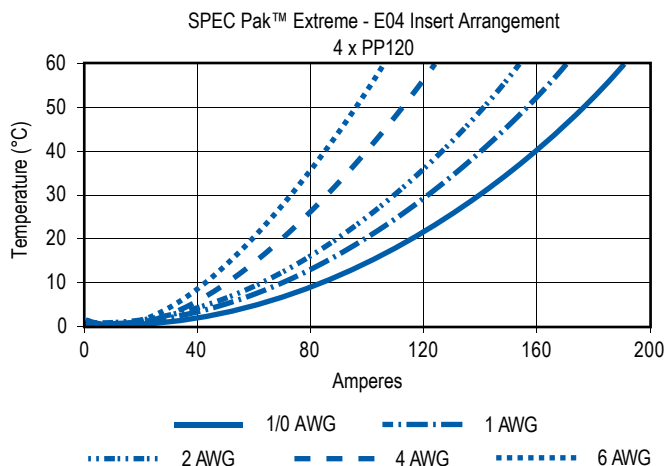
NOTE:

(1) E = Empty

(2) For agency approval, contact factory.

\* For custom configurations, use APP® custom part number configurator at [www.andersonpower.com](http://www.andersonpower.com) or contact the factory.

## TEMPERATURE CHART



## POWERPOLE® CONTACTS & HOUSINGS FOR E04 & E06 INSERT ARRANGEMENTS

### Contacts

| Contact Code                                       | Standard    | Standard | Bulk Part | Bulk    |             | Wire Size |
|----------------------------------------------------|-------------|----------|-----------|---------|-------------|-----------|
| Designation                                        | Part Number | Package  | Number    | Package | Description | (AWG)     |
| PP 120 Contacts (for E04 & E06 insert arrangement) |             |          |           |         |             |           |
| 20                                                 | 1323G2      | 20       | 1323G2-BK | 100     | Individual  | 1/0       |
| 21                                                 | 1323G1      | 20       | 1323G1-BK | 100     | Individual  | #1        |
| 22                                                 | 1319        | 20       | 1319-BK   | 500     | Individual  | #2        |
| 23                                                 | 1319G4      | 20       | 1319G4-BK | 500     | Individual  | #4        |
| 24                                                 | 1319G6      | 20       | 1319G6-BK | 500     | Individual  | #6        |
| PP 75 Contacts (for E06 insert arrangement only)   |             |          |           |         |             |           |
| 11                                                 | 5900        | 25       | 5900-BK   | 1000    | Individual  | #6        |
| 12                                                 | 5952        | 25       | 5952-BK   | 1000    | Individual  | #8        |
| 13                                                 | 5915        | 100      | 5915-BK   | 1000    | Individual  | #10 to 12 |

### Contact Housings

| Standard        | Standard | Bulk        | Bulk    |             |
|-----------------|----------|-------------|---------|-------------|
| Part Number     | Package  | Part Number | Package | Description |
| PP 120 Housings |          |             |         |             |
| 1321G1          | 20       | 1321G1-BK   | 500     | Black       |
| 1321            | 20       | 1321-BK     | 500     | Blue        |
| 1321G4          | 20       | 1321G4-BK   | 500     | Green       |
| 1321G3          | 20       | 1321G3-BK   | 500     | Red         |
| 1321G2          | 20       | 1321G2-BK   | 500     | White       |
| PP 75 Housings  |          |             |         |             |
| 5916G4          | 25       | 5916G4-BK   | 1000    | Black       |
| 5916            | 25       | 5916-BK     | 1000    | Blue        |
| 5916G6          | 25       | 5916G6-BK   | 1000    | Green       |
| 5916G7          | 25       | 5916G7-BK   | 1000    | Red         |
| 5916G5          | 25       | 5916G5-BK   | 1000    | White       |



E04 Powerpole®  
Insert Holder



E06 Powerpole®  
Insert Holder

NOTE:

(1) See Powerpole® & Multipole Power Connectors Catalog for additional contacts and/or housings options.

(2) Application tooling information is available on page 11.

(3) PP15/45 housing adapter (custom configuration) information is available on page 9.

# E06 Insert Arrangement

Configured with up to 4 PP120 & 2 PP75 Contacts (up to 200 amps)  
Standard & Custom Configuration Options

## HOUSING ARRANGEMENT

### 0 Custom Configuration \*

DC 2 Circuit, 4 Wire With 2  
Power Auxiliary Circuits

|   |      |        |        |        |
|---|------|--------|--------|--------|
| Q | 5916 | 1321G1 | 1321G1 | 5916G5 |
|   |      | 1321G3 | 1321G3 |        |

All Black

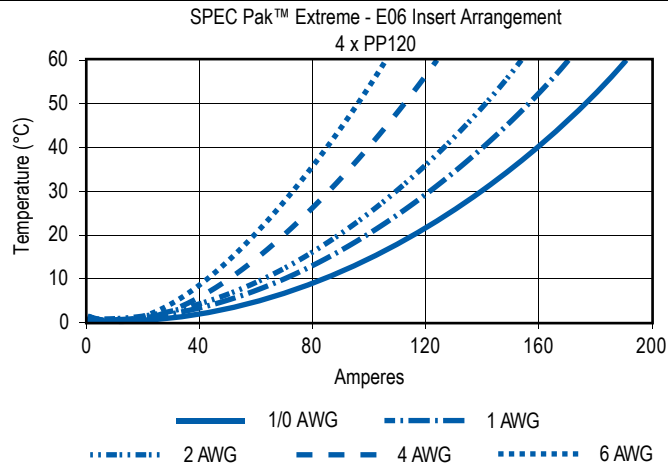
|   |        |        |        |        |
|---|--------|--------|--------|--------|
| Z | 5916G4 | 1321G1 | 1321G1 | 5916G4 |
|   |        | 1321G1 | 1321G1 |        |

NOTE:

(1) For agency approval, contact factory.

\* For custom configurations, use APP® custom part number configurator at [www.andersonpower.com](http://www.andersonpower.com) or contact the factory.

## TEMPERATURE CHART



**E06 Standard Powerpole® Contacts and Housings Options Are Available On Page 8.**

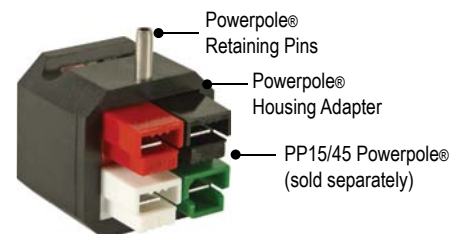
## POWERPOLE® CONTACTS & HOUSINGS FOR PP15/45 HOUSING ADAPTER FOR E04 & E06 INSERT ARRANGEMENTS

### Contacts

| Part Number     | Standard Package | Bulk Package | Description                         | Wire Size AWG |
|-----------------|------------------|--------------|-------------------------------------|---------------|
| PP 15/45        |                  |              |                                     |               |
| 200G1L          | -                | 5000         | Reeled-LD-Tin Plated                | #10 to 20     |
| 200G1L-LPBK     | 100              | -            | Superflex, Sing. Reel-LD-Tin Plated | #10 to 20     |
| 261G2           | -                | 5000         | Reeled-HD-Tin Plated                | #10 to 20     |
| 261G2-LPBK      | 100              | -            | Singulated-LD Tin Plate             | #10 to 20     |
|                 |                  |              |                                     |               |
| 1331            | 100              | -            | Individual-LD-Silver Plated         | #12 to 16     |
| 1331-BK         | -                | 1000         | Individual-LD-Silver Plated         | #12 to 16     |
| 261G1           | -                | 5000         | Reeled-LD-Tin Plated                | #12 to 16     |
| 261G1-LBBK      | 100              | -            | Singulated-LD Tin Plate             | #12 to 16     |
|                 |                  |              |                                     |               |
| 1332            | 100              | -            | Individual-LD-Silver Plated         | #16 to 20     |
| 1332-BK         | -                | 1000         | Individual-LD-Silver Plated         | #16 to 20     |
| 262G1           | -                | 5000         | Reel-LD-Silver Plated               | #16 to 20     |
| 262G1-LPBK      | 100              | -            | Singulated-LD Silver Plate          | #16 to 20     |
| PP 15/45 Ground |                  |              |                                     |               |
| 1830G1          | -                | 5000         | Reel-LD-Tin Plated                  | #10 to 14     |
| 1830G1-LPBK     | 100              | -            | Singulated Reel-LD-Tin Plated       | #10 to 14     |
| 1830G2          | -                | 5000         | Reel-LD-Silver Plated               | #10 to 14     |
| 1830G2-LPBK     | 1000             | -            | Singulated Reel-LD-Silver Plated    | #10 to 14     |

### Contact Housings

| Standard Part Number | Standard Package | Bulk Part Number | Bulk Package | Description |
|----------------------|------------------|------------------|--------------|-------------|
| PP 15/45             |                  |                  |              |             |
| 1327G6FP             | 100              | 1327G6FP-BK      | 1000         | Black       |
| 1327G8FP             | 100              | 1327G8FP-BK      | 1000         | Blue        |
| 1327G5FP             | 100              | 1327G5FP-BK      | 1000         | Green       |
| 1327FP               | 100              | 1327FP-BK        | 1000         | Red         |
| 1327G7FP             | 100              | 1327G7FP-BK      | 1000         | White       |
| 1327G16FP            | 100              | 1327G16FP-BK     | 1000         | Yellow      |
| PP 15/45 Ground      |                  |                  |              |             |
| 1827G1               | 100              | 1827G1-BK        | 1000         | Green       |



**Housing Adapter  
Part Number 2400G1**

NOTE:

(1) See Powerpole® & Multipole Power Connectors

Catalog for additional contacts and/or housings options.

(2) Application tooling information is available on page 11.

(3) Housing adapter (p/n 2400G1) can be used in place of PP120 housing and contact.

# E09 Insert Arrangement

Configured with up to 9 PP75 Contacts (up to 75 amps)  
Standard & Custom Configuration Options

## HOUSING ARRANGEMENT

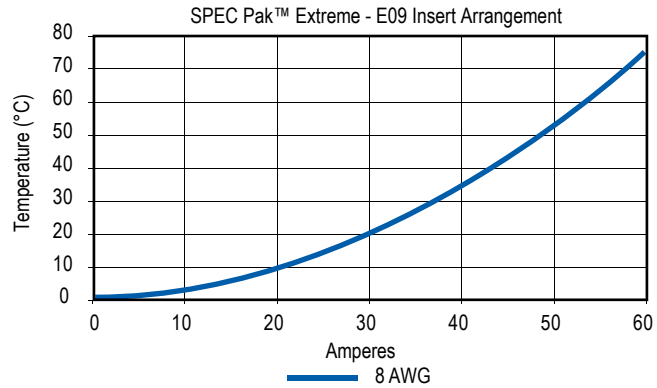
### 0 Custom Configuration \*

All Black

|   |        |        |        |
|---|--------|--------|--------|
| Z | 5916G4 | 5916G4 | 5916G4 |
|   | 5916G4 | 5916G4 | 5916G4 |
|   | 5916G4 | 5916G4 | 5916G4 |

\* For custom configurations, use APP® custom part number configurator at [www.andersonpower.com](http://www.andersonpower.com) or contact the factory.

## TEMPERATURE CHART



## POWERPOLE® CONTACTS & HOUSINGS FOR E09 INSERT ARRANGEMENT

### Contacts

| Contact Code Designation | Standard Part Number | Standard Package | Bulk Part Number | Bulk Package | Description | Wire Size (AWG) |
|--------------------------|----------------------|------------------|------------------|--------------|-------------|-----------------|
| PP75                     |                      |                  |                  |              |             |                 |
| 11                       | 5900                 | 25               | 5900-BK          | 1000         | Individual  | #6              |
| 12                       | 5952                 | 25               | 5952-BK          | 1000         | Individual  | #8              |
| 13                       | 5915                 | 100              | 5915-BK          | 1000         | Individual  | #10 to 12       |

### Contact Housings

| Standard Part Number | Standard Package | Bulk Part Number | Bulk Package | Description |
|----------------------|------------------|------------------|--------------|-------------|
| PP75                 |                  |                  |              |             |
| 5916G4               | 25               | 5916G4-BK        | 1000         | Black       |
| 5916                 | 25               | 5916-BK          | 1000         | Blue        |
| 5916G6               | 25               | 5916G6-BK        | 1000         | Green       |
| 5916G7               | 25               | 5916G7-BK        | 1000         | Red         |
| 5916G5               | 25               | 5916G5-BK        | 1000         | White       |



E09 Powerpole®  
Insert Holder

#### NOTE:

- (1) See Powerpole® & Multipole Power Connectors Catalog for additional contacts and/or housings options.
- (2) Application tooling information is available on page 11.
- (3) Shaded box  are  File No. E26226

# Tooling Charts

## APPLICATION TOOLING

### PP15/45 Contact Tools

| Contact Loose Piece Part Number | Hand Tool | or      | Pneumatic Tool | Reeled Part Number | ATS Applicator |
|---------------------------------|-----------|---------|----------------|--------------------|----------------|
| 1332                            | 1309G2    |         | 1367G1         | N/A                | N/A            |
| 1331                            |           |         |                | N/A                | N/A            |
| 262G1-LPBK                      |           |         | N/A            | 261G1              | 1385520        |
| 200G2L-LPBK                     |           |         |                | 200G2L             | TBD            |
| 269G2-LPBK                      |           |         |                | 269G2              | 1385519        |
| 261G1-LPBK                      | 1309G3    | 261G1   |                | 1385520            |                |
|                                 |           | 261G2   |                | 1385458            |                |
|                                 |           | 269G1   |                | 1385520            |                |
| 269G3                           |           | 1385458 |                |                    |                |
| 200G1L-LPBK                     | 1309G6    | 200G1L  |                | 1385460            |                |
| 201G1H-LPBK                     |           | 201G1H  |                | 1385460            |                |
| 1830G1-LPBK                     |           | 1830G1  |                | 1385460            |                |
| 1830G2-LPBK                     |           | 1830G2  |                | 1385460            |                |

### PP75 Contact Tools

| Contact Part Number | + Hand Tool | or | Pneumatic Bench Tool | + Die  | + Locator |
|---------------------|-------------|----|----------------------|--------|-----------|
| 5900                | 1309G4      |    | 1387G1               | 1388G6 | 1389G6    |
| 5952                |             |    |                      | 1388G7 | 1388G7    |
| 5915                |             |    |                      |        |           |

### PP120 Contact Tools

| Contact Part Number | Dieless Hydraulic Tool | or | Pneumatic Bench Tool | + Die  | + Locator |
|---------------------|------------------------|----|----------------------|--------|-----------|
| 1319                | 1368                   |    | 1387G1               | 1388G4 | 1389G4    |
| 1319G4              |                        |    |                      |        |           |
| 1319G6              |                        |    |                      |        |           |
| 1323G1              |                        |    |                      | 1388G3 | 1389G3    |
| 1323G2              |                        |    |                      |        |           |

### PP180 Contact Tools

| Contact Part Number | Dieless Hydraulic Tool | or | Pneumatic Bench Tool | + Die   | + Locator |
|---------------------|------------------------|----|----------------------|---------|-----------|
| 1382                | 1368                   |    | 1387G2               | 1303G4  | 1304G32   |
| 1383                |                        |    | 1387G1               | 1388G3  | 1389G3    |
| 1348                |                        |    |                      |         |           |
| 1347                |                        |    |                      |         |           |
| 1384                |                        |    |                      | 1388G5  | 1389G5    |
| 1328G1              |                        |    | 1387G2               | 1303G4  | 1304G32   |
| 1328G2              |                        |    |                      | 1303G12 |           |

NOTE: Visit [www.andersonpower.com](http://www.andersonpower.com) for additional tooling options.



1309



1367G1



1387

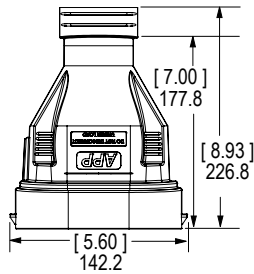


1368

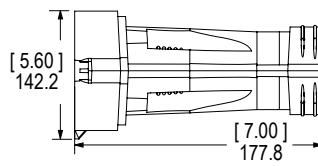
# Dimensions

## PLUG

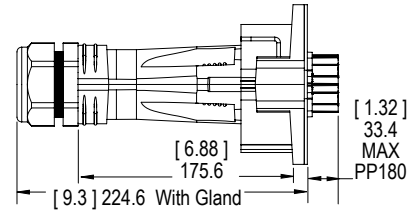
Top View



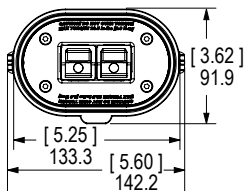
Side View



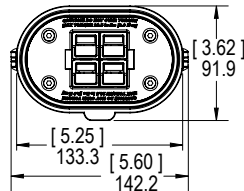
Mated Side View  
With Receptacle



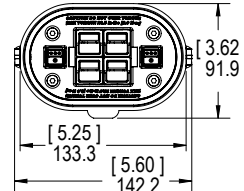
Front View - E02



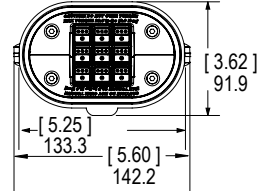
Front View - E04



Front View - E06

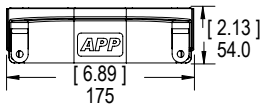


Front View - E09

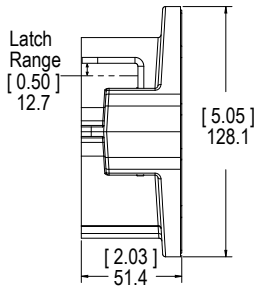


## RECEPTACLE

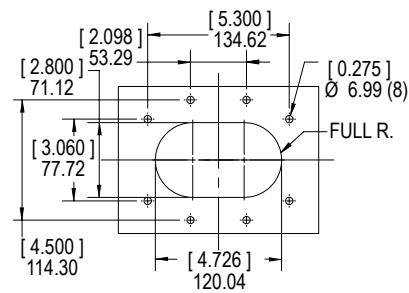
Top View



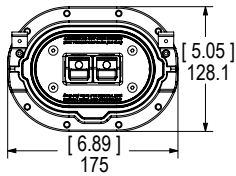
Side View



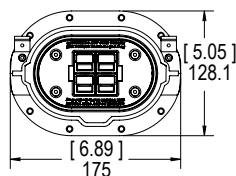
Panel Cut Out



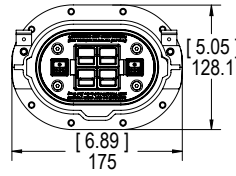
Front View - E02



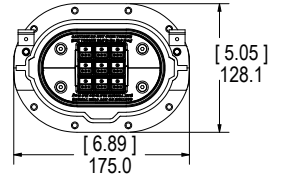
Front View - E04



Front View - E06

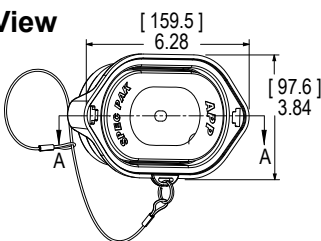


Front View - E09

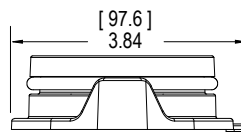


## PLUG COVER KIT

Front View



Side View



All Data Subject To Change Without Notice Patents with Patents Pending

14838 DS-EXSPAK REV01

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