

# 4 POSITION SPEC Pak™

Sealed Power For Environmental Connections



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



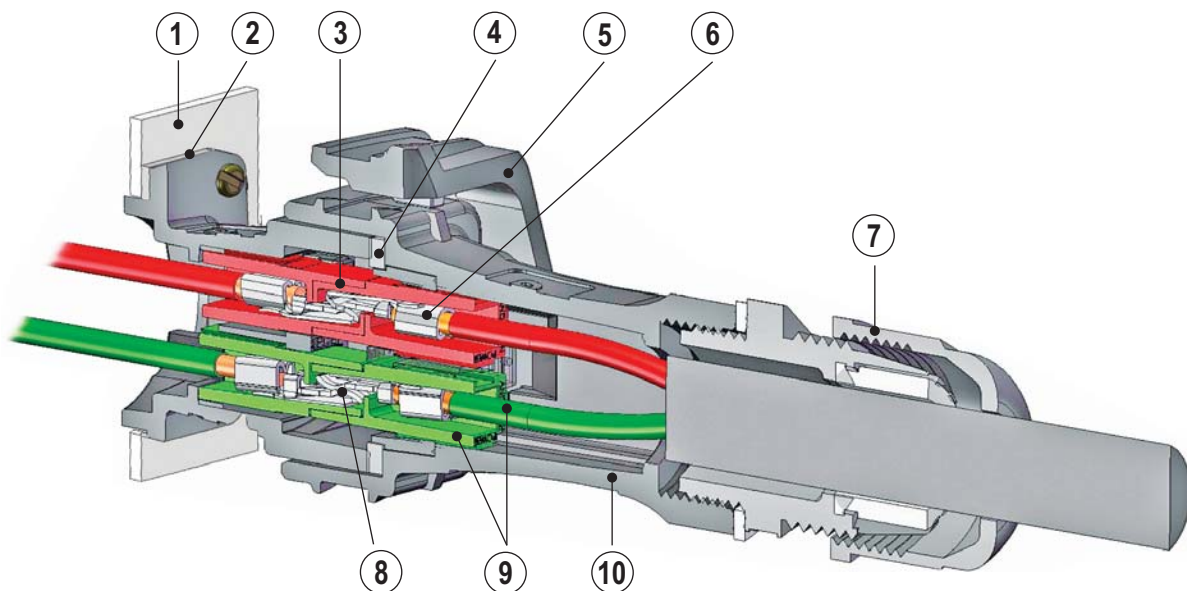
**APP**  
Anderson Power Products

# Rugged and Sealed (IP68) Plugs and Receptacles

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

APP®'s SPEC Pak™ Connector Series uses rugged and environmentally sealed (IP68) shells to protect existing APP® Powerpole® contacts and housings. Customer configured SPEC Pak™ Connectors may be used anywhere a rugged and waterproof high-power, signal and ground interconnect solution is required such as in; mass transportation, off-road vehicles, factory automation, oil and petrochemical exploration, agricultural equipment, and many more.

The core APP® Powerpole® technology within the SPEC Pak™ is proven reliable and cost effective. The broad selection of touch safe, color-coded Powerpole® housings with power, signal and ground contacts accept a broad range of wire gauges, #24 to #10 AWG (0.25 to 4.0 mm<sup>2</sup>), giving users thousands of flexible design solutions in a single interconnect.



**1 - Industry Standard Panel Cut Out**

(Same as 26482 & 5015 shell size 20)

**2 - IP68 Panel Mount Sealing Gasket**

**3 - Touch Safe Housings** (UL1977, Section 10.2)

**4 - IP68 Interfacial Sealing Gasket**

**5 - Latch** (top or bottom of plug or receptacle)

**6 - Power Contacts** (up to 4) and / or **Signal Contacts** (up to 16)

**7 - Uses Industry Standard Sealing Components**

(PG gland compatible - size 16)

**8 - First Mate / Last Break Ground Contacts**

**9 - Color Coded Housings Match Wire Colors**

**10 - UV & Chemical Resistant Ruggedized Shells**

# Specifications

## SPEC Pak™ Shell / Components

### Electrical

|                                      |              |
|--------------------------------------|--------------|
| UL Voltage Rating (AC/DC)            | 600          |
| Dielectric Withstanding Voltage (AC) | 3000         |
| Operating Temperature (°C)           | -40° to 105° |
| (°F)                                 | -40° to 221° |
| Flammability Rating of SPEC Shells   | UL 94V-0     |

### Mechanical

|   |          |
|---|----------|
| Shells / Latch Mating Cycles                          | 1500 Min |
| Connect / Disconnect (lbf)                            | 12 Max   |
| (N)   | 53 Max   |
| IP Rating   | IP68     |
| Sealing Exceeds (IP68), Meets Sealing Requirements of | UL50     |

### Material

|                            |               |
|----------------------------|---------------|
| Shells (Plug / Receptacle) | PBT           |
| Latch                      | Nylon         |
| Holder                     | Polycarbonate |

## PPMX (4850 Series) Powerpole® Signal Contact

### Ratings for SPEC Pak™ Use

### Electrical

|                                |              |
|--------------------------------|--------------|
| UL Current Rating (Amperes)    | 1            |
| Voltage Rating (AC/DC)         | 300          |
| Contact Barrel Wire Size (AWG) | #20 to #24   |
| (mm <sup>2</sup> )             | 0.5 to 0.25  |
| Contact Retention Force (lbf)  | 14.0         |
| (N)                            | 62.0         |
| Insertion Force (lbf)          | 4.5 Max      |
| (N)                            | 20.0 Max     |
| Operating Temperature (°C)     | -20° to 105° |
| (°F)                           | -4° to 221°  |

### Mechanical

|                 |      |
|-----------------|------|
| Life            |      |
| • Mating Cycles | 1500 |

### Material

|                  |                       |
|------------------|-----------------------|
| Housing Material | PBT                   |
| Contact Material | Copper Alloy          |
| Contact Plating  | Gold, 50 Micro-inches |

NOTE: PPMX Contacts, up to 4 per housing

## Powerpole® Power (1327FP Series) & Ground Contact (1827 Series)

### Ratings for SPEC Pak™ Use

### Electrical

|   |              |
|---|--------------|
| UL Current Rating (Amperes)             | 15 to 40     |
| CSA (30°C Rise) (Amperes)               | 10 to 26     |
| Voltage Rating (AC/DC)                  | 600          |
| Contact Barrel Wire Size (AWG) - Power  | 20 to 10     |
| - Ground                                | 14 to 10     |
| (mm <sup>2</sup> ) - Power              | 0.5 to 4.0   |
| - Ground                                | 1.5 to 4.0   |
| Average Contact Resistance (micro-ohms) | 600          |
| Contact Retention Force (lbf)           | 25           |
| (N)                                     | 111          |
| Operating Temperature (°C)              | -20° to 105° |
| (°F)                                    | -4° to 221°  |
| Flammability Rating                     | UL94 V-0     |

### Mechanical

#### Life

|  |                                 |
|--|---------------------------------|
| • No Load (mating cycles)                          |                                 |
| - Tin  | 1,500                           |
| - Silver   | 10,000                          |
| • Under Load (Hot Plug 250 mating cycles @ 120V) * | 30A                             |
| (Hot Plug 250 mating cycles @ 72V) *               | 45A                             |
| Mechanical Shock (50 g)                            | Mil Standard<br>202 213 Cond. A |
| Vibration (10 g)                                   | Mil Standard<br>202 204 Cond. A |

### Material

|                                     |                  |
|-------------------------------------|------------------|
| Housing Material                    | Polycarbonate    |
| Touch Safe (Power / Signal Housing) | UL1977 Sec. 10.2 |
| Contact Material                    | Copper           |
| Contact Plating                     | Tin or Silver    |

\* Hot Plug testing completed with individual Powerpole® housings

NOTE: Agency approvals - TUV Pending / Patents & Patents Pending



File No. E26226

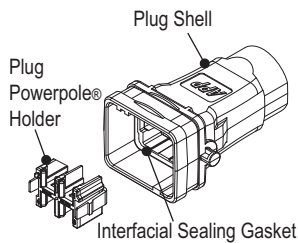


# Part Number Configurator

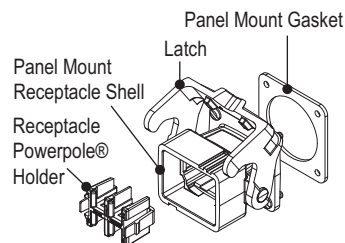
## PART NUMBER PLAN

| SPEC Pak™ Series<br>(1 Fixed Character) | Shell Color<br>(1 Character) | Shell Style<br>(1 Character)   | Dash     | Shell Size<br>(mm) (3 Characters) | Insert Arrangement<br>(3 Characters)     |
|---|------------------------------|--|----------|-----------------------------------|--|
| <b>S</b>                                | <b>K</b>                     | <b>2</b>   | <b>-</b> | <b>050</b>                        | <b>B04</b>                               |
| S = SPEC Pak™ Series                    | K = Black                    | 1 = Inline Receptacle<br>2 = Panel Mount Receptacle<br>6 = Straight Plug |          | 050 = 50 mm - 4 Pole Shell        | B04 = PP15/45 Housing (any type), 4 Pole |

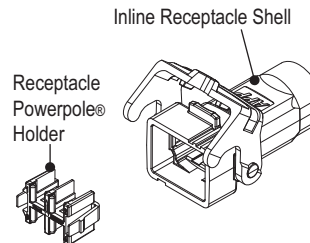
### PLUG KIT



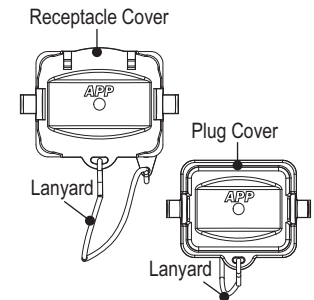
### PANEL MOUNT RECEPTACLE KIT



### INLINE RECEPTACLE KIT



### IP68 SEALING COVER KIT



**NOTE:**

- Mounting hardware (4 each - M3 or #4 screws) not included
- Recommended torque for mounting hardware is 2½ to 4 in-lbf (0.28 to 0.45 Nm)

## ORDERING INFORMATION

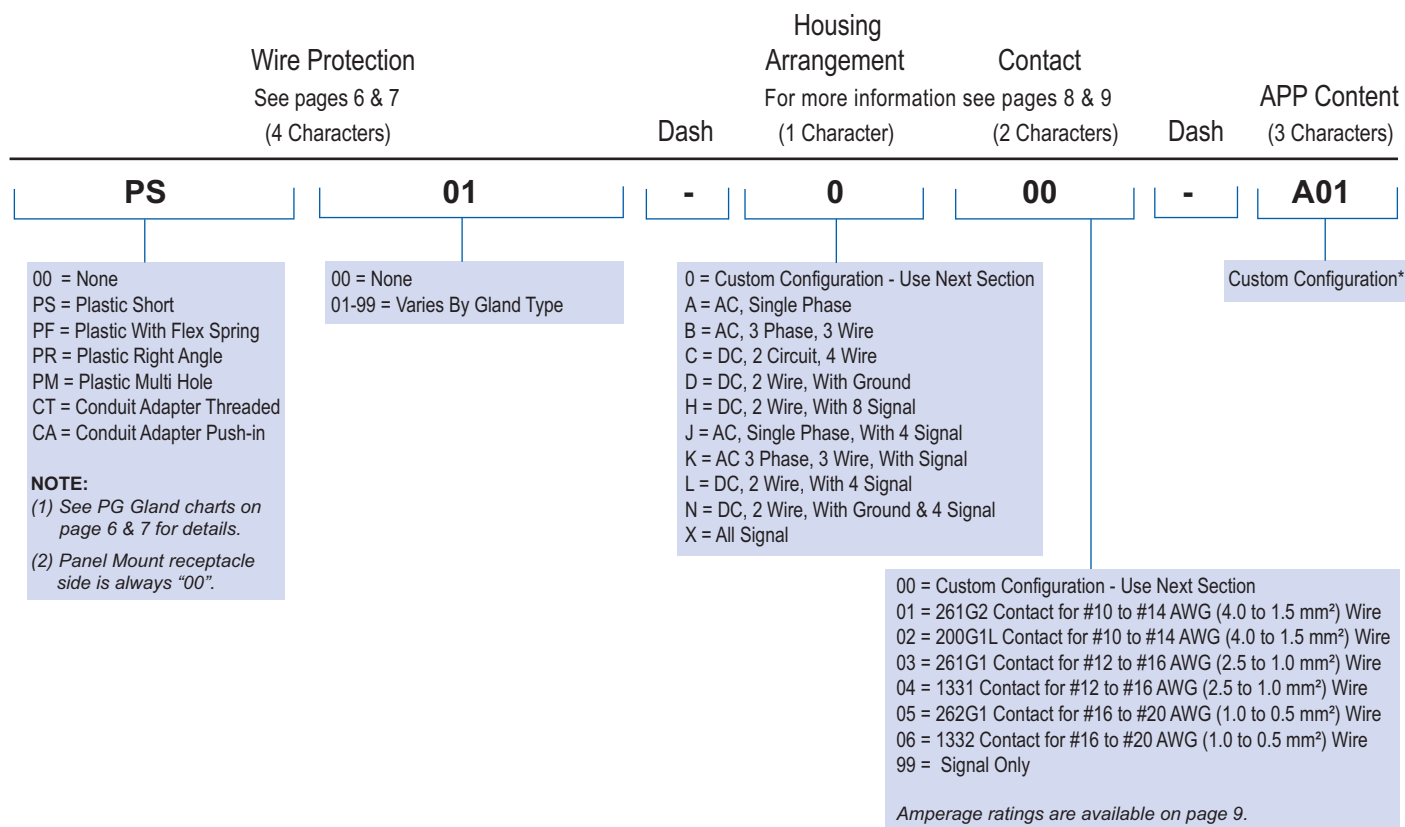
### SPEC Pak™ Kits

| Part Number | Description  |
|-------------|--|
| SK6-050B04  | Plug kit<br>- Plug shell (includes interfacial sealing gasket)<br>- Powerpole® holder for plug   |
| SK2-050B04  | Panel mount receptacle kit<br>- Panel mount receptacle shell with latch<br>- Powerpole® holder for receptacle<br>- Panel mount gasket for receptacle |
| SK1-050B04  | Inline receptacle kit<br>- Inline receptacle shell with latch<br>- Powerpole® holder for receptacle  |
| 3-5993P1    | Cover kit for plug<br>- Protective sealing (IP68) cover with lanyard   |
| 3-5992P1    | Cover kit for receptacle<br>- Protective sealing (IP68) cover with lanyard   |

### Component Replacement Parts

| Part Number | Description                       |
|-------------|-----------------------------------|
| 114805P1    | Panel mount gasket for receptacle |
| 2-8673P1    | 4 position latch                  |

## PART NUMBER PLAN




### 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: SK6-050B04** Powerpole® housings, contacts and wire protection may be ordered separately, see pages 6, 7 and 10 for information.
- 2) To order complete standard configured SPEC Pak™ connectors (including internal Powerpole® housings and contacts) use Part Number Plan across the top of pages 4 and 5. **Standard SPEC Pak™ Plug Configuration Example: SK6-050B04PS01-B01**
- 3) To order a custom configuration which is not listed on page 8 and 9, use APP® custom part number configurator on the APP® website, [www.andersonpower.com](http://www.andersonpower.com) or contact factory.

\* Custom configuration may not be UL Recognized.

# Wire Protection - PG Glands

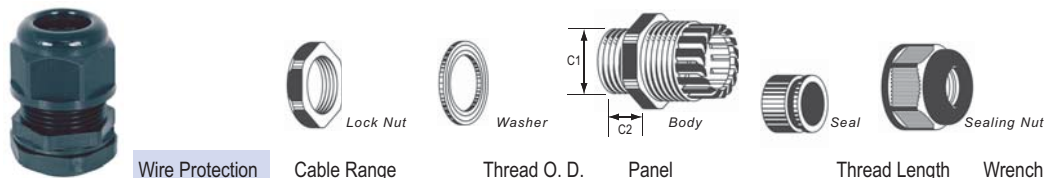
## SPECIFICATIONS

| Material (Push-in Conduit) |                                 | Material (All Others) |                                 | Torque Requirements  |
|----------------------------|---------------------------------|-----------------------|---------------------------------|--|
| Shell                      | Nylon PA                        | Shell                 | Nylon PA 66 (UL94 V-2)*         | Cable Gland Body to Plug Housing<br>- Hand tighten until snug, tighten additional 1/8 - 1/4 turn with wrench |
| Gasket                     | TPE                             | Gasket                | EPDM                            |  |
| Color*                     | Black                           | Color*                | Black                           | Sealing Nut to Cable<br>- Hand tighten until snug, tighten additional 1/2 - 3/4 turn with wrench             |
| <b>Mechanical</b>          |                                 | <b>Mechanical</b>     |                                 |  |
| Operating Temp             | -30°C to 100°C (-22°F to 212°F) | Operating Temp        | -40°C to 105°C (-40°F to 221°F) |                            |
| IP Rating                  | IP68                            | IP Rating             | IP68                            |  |
| Thread Type                | PG                              | UV Rating             | Equivalent to UL746C F1         |  |
|                            |                                 | Thread Type           | PG                              |  |

\* Contact factory for UL94 V-0 material

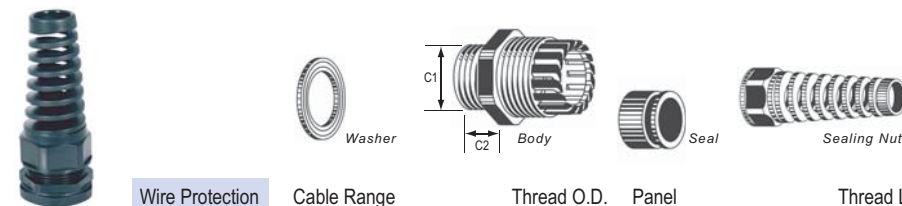
NOTE: Only UL listed cable glands are UL recognized components when used with SPEC Pak™ connector(s).

## STRAIGHT PLASTIC SHORT THREAD TYPE - STD PACK 50 / UL LISTED



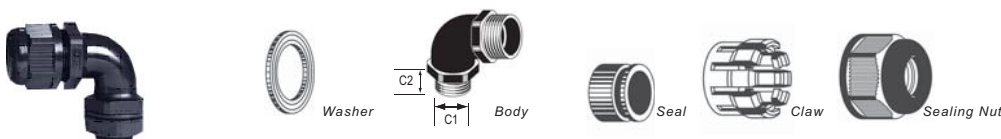
| APP® P/N   | Wire Protection Designation (4 Characters) | Cable Range Wire Outer Dia. mm (in) | Thread O. D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut (mm) | Wrench Size Sealing Nut (mm) |
|------------|--|-------------------------------------|-------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|
| PS1P16-10X | PS01                                       | 11.2 - 5.5 (0.44 - 0.22)            | 22.5 (0.89)             | 22.5 - 22.8 (0.89 - 0.90)   | 10.0 (0.39)              | 30                        | 27                           |
| PS1P16-14X | PS02                                       | 14.1 - 8.0 (0.56 - 0.31)            | 22.5 (0.89)             | 22.5 - 22.8 (0.89 - 0.90)   | 10.0 (0.39)              | 30                        | 27                           |

## STRAIGHT PLASTIC WITH FLEX SPRING - STD PACK 50 / UL LISTED



| APP® P/N   | Wire Protection Designation (4 Characters) | 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) |
|------------|--|-------------------------------------|------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|
| PF1P16-10X | PF01                                       | 11.2 - 5.5 (0.44 - 0.22)            | 22.5 (0.89)            | 22.5 - 22.8 (0.89 - 0.90)   | 11.0 (0.43)              | 30                        | 27                           |
| PF1P16-13X | PF02                                       | 13.8 - 8.0 (0.54 - 0.31)            | 22.5 (0.89)            | 22.5 - 22.8 (0.89 - 0.90)   | 11.0 (0.43)              | 30                        | 27                           |

## RIGHT ANGLE - STD PACK 50 / UL LISTED



| APP® P/N   | Wire Protection Designation (4 Characters) | 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) |
|------------|--|-------------------------------------|------------------------|-----------------------------|--------------------------|---------------------------|------------------------------|
| PR1P16-10X | PR01                                       | 11.0 - 7.0 (0.43 - 0.28)            | 22.5 (0.89)            | 22.5 - 22.8 (0.89 - 0.90)   | 12.0 (0.47)              | 30                        | 27                           |
| PR1P16-13X | PR02                                       | 13.0 - 8.0 (0.51 - 0.31)            | 22.5 (0.89)            | 22.5 - 22.8 (0.89 - 0.90)   | 12.0 (0.47)              | 30                        | 27                           |

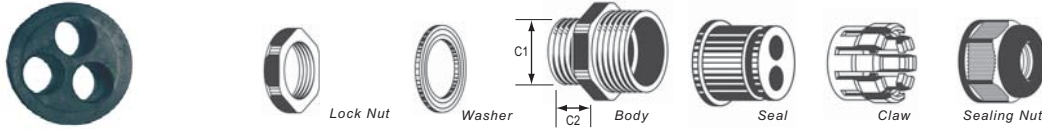
## LOCK NUT FOR PG 16 CABLE GLANDS



Lock Nut

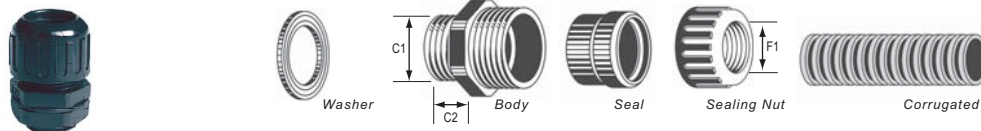
| APP® P/N | Wrench Size Lock Nut (mm) | Std. Pkg. Size |
|----------|---------------------------|----------------|
| 124G31   | 30                        | 50             |

## STRAIGHT PLASTIC MULTI-HOLE TYPE - STD PACK 50 / NOT UL LISTED



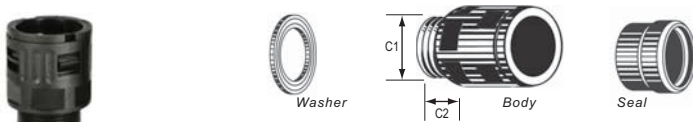
| APP® P/N  | Wire Protection Designation (4 Characters) | Number of Holes | Cable Range<br>Wire Outer Dia.<br>mm (in) | Thread O.D.<br>C1<br>mm (in) | Panel<br>Mounting Hole<br>mm (in) | Thread Length<br>C2<br>mm (in) | Wrench Size<br>Lock Nut<br>(mm) | Wrench Size<br>Sealing Nut<br>(mm) |
|-----------|--|-----------------|---|------------------------------|-----------------------------------|--------------------------------|---------------------------------|------------------------------------|
| PS2P16-3X | PM21                                       | 2               | 3.5 - 2.5 (0.14 - 0.10)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS2P16-4X | PM22                                       | 2               | 4.3 - 3.3 (0.17 - 0.13)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS2P16-6X | PM23                                       | 2               | 6.1 - 4.3 (0.24 - 0.17)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS3P16-3X | PM31                                       | 3               | 3.6 - 2.6 (0.14 - 0.10)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS3P16-5X | PM32                                       | 3               | 5.2 - 3.5 (0.20 - 0.14)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS4P16-2X | PM41                                       | 4               | 2.5 - 1.6 (0.10 - 0.06)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS4P16-3X | PM42                                       | 4               | 3.6 - 2.5 (0.14 - 0.10)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS4P16-4X | PM43                                       | 4               | 4.8 - 3.4 (0.19 - 0.13)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS5P16-2X | PM51                                       | 5               | 2.1 - 1.3 (0.08 - 0.05)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS5P16-3X | PM52                                       | 5               | 3.1 - 2.0 (0.12 - 0.08)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS5P16-4X | PM53                                       | 5               | 4.1 - 3.0 (0.16 - 0.12)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS6P16-2X | PM61                                       | 6               | 2.0 - 1.3 (0.08 - 0.05)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |
| PS6P16-3X | PM62                                       | 6               | 3.0 - 2.0 (0.12 - 0.08)                   | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | 27                                 |

## STRAIGHT CONDUIT ADAPTER THREAD TYPE - STD PACK 50 / NOT UL LISTED



| APP® P/N   | Wire Protection Designation (4 Characters) | Max. Joint<br>F1<br>mm (in) | Thread O.D.<br>C1<br>mm (in) | Panel<br>Mounting Hole<br>mm (in) | Thread Length<br>C2<br>mm (in) | Wrench Size<br>Lock Nut<br>(mm) | APP®<br>Conduit<br>P/N | Conduit<br>Trade<br>Size |
|------------|--|-----------------------------|------------------------------|-----------------------------------|--------------------------------|---------------------------------|------------------------|--------------------------|
| CT1P16-15X | CT01                                       | 16.0 (0.63)                 | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | NGN - 12B              | OD15.8                   |
| CT1P16-18X | CT02                                       | 18.3 (0.72)                 | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | NGN - 14B              | -                        |
| CT1P16-21X | CT03                                       | 22.0 (0.87)                 | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 11.0 (0.43)                    | 30                              | NGN - 17B              | OD21.2                   |

## STRAIGHT CONDUIT PUSH-IN TYPE - STD PACK 50 / NOT UL LISTED



| APP® P/N  | Wire Protection Designation (4 Characters) | Thread O.D.<br>C1<br>mm (in) | Panel<br>Mounting Hole<br>mm (in) | Thread Length<br>C2<br>mm (in) | Wrench Size<br>Lock Nut<br>(mm) | Wrench Size<br>Sealing Nut<br>(mm) | APP®<br>Conduit<br>P/N | Conduit<br>Trade<br>Size |
|-----------|--|------------------------------|-----------------------------------|--------------------------------|---------------------------------|------------------------------------|------------------------|--------------------------|
| CAP16-15X | CA01                                       | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 10.0 (0.39)                    | 30                              | 21                                 | NGN - 12B              | OD15.8                   |
| CAP16-18X | CA02                                       | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 10.0 (0.39)                    | 30                              | 21                                 | -                      | OD18.5                   |
| CAP16-21X | CA03                                       | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 10.0 (0.39)                    | 30                              | 27                                 | NGN - 17B              | OD21.2                   |
| CAP16-28X | CA04                                       | 22.5 (0.89)                  | 22.5 - 22.8 (0.89 - 0.90)         | 12.0 (0.47)                    | 30                              | 34                                 | NGN - 23B              | OD28.5                   |

For R/A versions contact Factory

## CORRUGATED NYLON PLASTIC TUBING

| APP® P/N  | Conduit I. D.<br>mm (in) | Conduit O. D.<br>mm (in) | Conduit<br>Size | Trade<br>Size (mm) | Std. Pkg.<br>Meters (Feet) |
|-----------|--------------------------|--------------------------|-----------------|--------------------|----------------------------|
| NGN - 12B | 11.8 (0.46)              | 15.8 (0.62)              | 3/8"            | OD15.8             | 50 (164)                   |
| NGN - 14B | 13.8 (0.54)              | 17.8 (0.70)              | -               | -                  | 50 (164)                   |
| NGN - 17B | 16.7 (0.66)              | 21.2 (0.83)              | 1/2"            | OD21.2             | 50 (164)                   |
| NGN - 23B | 21.7 (0.85)              | 28.5 (1.12)              | 3/4"            | OD28.5             | 50 (164)                   |

## TUBING CUTTER



| APP® P/N | Description                      | Range (mm)    |
|----------|----------------------------------|---------------|
| TM002    | Corrugated Plastic Tubing Cutter | Up to OD 34.5 |

# Standard Housing Arrangements & Contacts

## HOUSING ARRANGEMENTS FOR POWER, SIGNAL & GROUND CONNECTORS

ARRANGEMENTS REPRESENT FRONT VIEW OF RECEPTACLE

Custom configurations may be created using APP's part number configurator at [www.andersonpower.com](http://www.andersonpower.com)

E = Empty

1327 Series = Power

1827 Series = Ground

4850 Series = Signal

**0** Custom Configuration

AC Single Phase

|          |          |        |
|----------|----------|--------|
| <b>A</b> | 1327G6FP | E      |
|          | 1327G7FP | 1827G1 |

AC 3 Phase, 3 Wire

|          |          |        |
|----------|----------|--------|
| <b>B</b> | 1327G6FP | 1327FP |
|          | 1327G7FP | 1827G1 |

DC 2 Circuit, 4 Wire

|          |          |          |
|----------|----------|----------|
| <b>C</b> | 1327G6FP | 1327G6FP |
|          | 1327FP   | 1327FP   |

DC 2 Wire With Ground

|          |          |        |
|----------|----------|--------|
| <b>D</b> | 1327G6FP | 1327FP |
|          | E        | 1827G1 |

DC 2 Wire With 8 Signal

|          |          |        |
|----------|----------|--------|
| <b>H</b> | 4827G6   | 4827G6 |
|          | 1327G6FP | 1327FP |

AC Single Phase With 4 Signal

|          |          |        |
|----------|----------|--------|
| <b>J</b> | 1327G6FP | 4827G6 |
|          | 1327G7FP | 1827G1 |

AC 3 Phase, 3 Wire With Signal

|          |          |        |
|----------|----------|--------|
| <b>K</b> | 1327G6FP | 1327FP |
|          | 1327G7FP | 4827G6 |

DC 2 Wire With 4 Signal

|          |          |        |
|----------|----------|--------|
| <b>L</b> | 1327G6FP | 1327FP |
|          | E        | 4827G6 |

DC 2 Wire With Ground  
& 4 Signal

|          |          |        |
|----------|----------|--------|
| <b>N</b> | 1327G6FP | 1327FP |
|          | 4827G6   | 1827G1 |

All Signal

|          |        |        |
|----------|--------|--------|
| <b>X</b> | 4827G6 | 4827G6 |
|          | 4827G6 | 4827G6 |



## CONTINUOUS CURRENT RATINGS - POWER CONTACT CODE SELECTION

| Contact Code | Power Contact                 | Housing Configuration | Wire Size / Current Rating |       |       |       |       |      |
|--------------|-------------------------------|-----------------------|----------------------------|-------|-------|-------|-------|------|
|              |                               |                       | #10                        | #12   | #14   | #16   | #18   | #20  |
| 00           | Contacts Purchased Separately |                       |                            |       |       |       |       |      |
| 01           | 261G2                         | A - D                 | 25/38                      | 20/30 | 15/25 | -     | -     | -    |
|              |                               | H,J,L,N               | 26/40                      | 25/35 | 17/27 | -     | -     | -    |
| 02           | 200G1L                        | A - D                 | 23/35                      | 18/28 | 15/23 | -     | -     | -    |
|              |                               | H,J,L,N               | 24/37                      | 23/32 | 15/25 | -     | -     | -    |
| 03           | 261G1                         | A - D                 | -                          | 20/30 | 15/25 | 11/16 | -     | -    |
|              |                               | H,J,L,N               | -                          | 25/35 | 17/27 | 13/20 | -     | -    |
| 04           | 1331                          | A - D                 | -                          | 16/25 | 15/23 | 12/18 | -     | -    |
|              |                               | H,J,L,N               | -                          | 17/27 | 17/25 | 13/20 | -     | -    |
| 05           | 262G1                         | A - D                 | -                          | -     | -     | 11/16 | 8/13  | 6/9  |
|              |                               | H,J,L,N               | -                          | -     | -     | 13/20 | 10/15 | 7/10 |
| 06           | 1332                          | A - D                 | -                          | -     | -     | 12/18 | 8/13  | 6/9  |
|              |                               | H,J,L,N               | -                          | -     | -     | 13/20 | 10/15 | 7/10 |

**NOTES:**

1. Current ratings:

- First number represents current rating per pole for 30°C temperature rise (25 / 38)
- Second number is the maximum recommended current per pole based on a 25°C ambient (25 / 38)

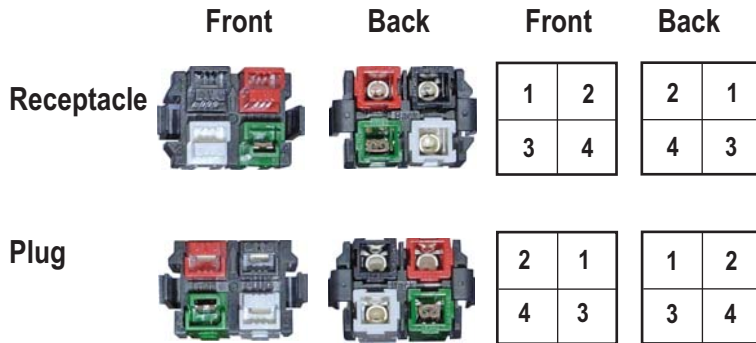
2. Configuration H - N based on signal contacts crimped to #20 AWG wire and carrying 1 amp

3. - Denotes wire size not appropriate for power contact

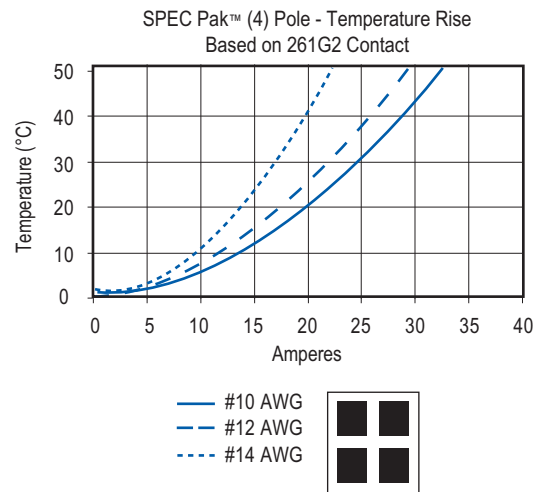
4. Shaded boxes  are US File No. E26226 pending.

5. 1827G1 housing should be used with 1830G1 or 1830G2 ground contact, depending on primary contacts (see chart above). All signal housings (4850) come with two 4802G3 and two 4803G3 contacts.

### HOLDER LOCATIONS (VIEWS)



### TEMPERATURE CHART



# Individual Components

## POWERPOLE® HOUSINGS & CONTACTS

### Fingerproof PP15/45 Housing Only

Package Quantity:  
Standard, 100 pieces - Bulk, 1,000 pieces

| Standard Part Number | Bulk Part Number | Description    |
|----------------------|------------------|----------------|
| 1327FP               | 1327FP-BK        | Red Housing    |
| 1327G5FP             | 1327G5FP-BK      | Green Housing  |
| 1327G6FP             | 1327G6FP-BK      | Black Housing  |
| 1327G7FP             | 1327G7FP-BK      | White Housing  |
| 1327G8FP             | 1327G8FP-BK      | Blue Housing   |
| 1327G16FP            | 1327G16FP-BK     | Yellow Housing |

### Standard PP 15/45 Housing Only

Package Quantity:  
Standard, 100 pieces - Bulk, 1,000 pieces

| Standard Part Number | Bulk Part Number | Description    |
|----------------------|------------------|----------------|
| 1327                 | 1327-BK          | Red Housing    |
| 1327G5               | 1327G5-BK        | Green Housing  |
| 1327G6               | 1327G6-BK        | Black Housing  |
| 1327G7               | 1327G7-BK        | White Housing  |
| 1327G8               | 1327G8-BK        | Blue Housing   |
| 1327G16              | 1327G16-BK       | Yellow Housing |
| 1327G17              | 1327G17-BK       | Orange Housing |
| 1327G18              | 1327G18-BK       | Gray Housing   |
| 1327G21              | 1327G21-BK       | Brown Housing  |
| 1327G22              | 1327G22-BK       | Pink Housing   |
| 1327G23              | 1327G23-BK       | Purple Housing |

### Premate Ground PP15/45 Housing Only

Package Quantity:  
Standard, 100 pieces - Bulk, 1,000 pieces

| Standard Part Number | Bulk Part Number | Description   |
|----------------------|------------------|---------------|
| 1827G1               | 1827G1-BK        | Green Housing |

### Premate Ground Contacts

Loose Piece  
Package Quantity 100

| Part Number                                | Description                |
|--|----------------------------|
| #10 to #14 AWG (4 to 1.5 mm <sup>2</sup> ) |                            |
| 1830G1-LPBK                                | Singulated-LD-Tin Plate    |
| 1830G2-LPBK                                | Singulated-LD-Silver Plate |

Reel  
Package Quantity 5,000

| Part Number                                | Description          |
|--|----------------------|
| #10 to #14 AWG (4 to 1.5 mm <sup>2</sup> ) |                      |
| 1830G1                                     | Reel-LD-Tin Plate    |
| 1830G2                                     | Reel-LD-Silver Plate |

### 15/45 Powerpole® Contacts

Loose Piece  
Package Quantity:  
Standard, 100 pieces - Bulk, 1,000 pieces

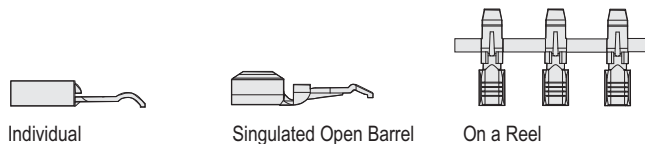
| Standard Part Number                         | Bulk Part Number | Description                        |
|--|------------------|------------------------------------|
| #16 to #20 AWG (1.0 to 0.5 mm <sup>2</sup> ) |                  |                                    |
| 1332   | 1332-BK          | Individual-LD-Silver Plate         |
| 262G1-LPBK                                   | -                | Singulated Reel-LD-Tin Plate       |
| 262G2-LPBK                                   | -                | Singulated Reel-LD-Silver Plate    |
| #12 to #16 AWG (2.5 to 1.0 mm <sup>2</sup> ) |                  |                                    |
| 1331   | 1331-BK          | Individual-LD-Silver Plate         |
| 261G1-LPBK                                   | -                | Singulated Reel-LD-Tin Plate       |
| #10 to #14 AWG (4 to 1.5 mm <sup>2</sup> )   |                  |                                    |
| 261G2-LPBK                                   | -                | Singulated Reel-LD-Tin Plate       |
| 261G3-LPBK                                   | -                | Singulated Reel-LD-Silver Plate    |
| 200G1L-LPBK                                  | -                | Superflex, Sing. Reel-LD-Tin Plate |

Reel - 15/45 Powerpole® Contacts  
Package Quantity 5,000

| Part Number                                  | Description                  |
|--|------------------------------|
| #16 to #20 AWG (1.0 to 0.5 mm <sup>2</sup> ) |                              |
| 262G1  | Reel-LD-Tin Plate            |
| 262G2  | Reel-LD-Silver Plate         |
| #12 to #16 AWG (2.5 to 1.0 mm <sup>2</sup> ) |                              |
| 261G1  | Reel-LD-Tin Plate            |
| #10 to #14 AWG (4 to 1.5 mm <sup>2</sup> )   |                              |
| 261G2  | Reel-LD-Tin Plate            |
| 261G3  | Reel-LD-Silver Plate         |
| #10 to #14 AWG (6 to 1.5mm <sup>2</sup> )    |                              |
| 200G1L                                       | SuperFlex, Reel-LD-Tin Plate |

NOTE:  
LD - Low Detent  
For additional housing colors please contact customer service.

## CONTACT STYLES



## PPMX (4850 SERIES) HOUSING & CONTACTS

### PPMX Housing

Package Quantity  
Standard, 25 pieces - Bulk, 1,000 pieces

| Standard Part Number | Bulk Part Number | Description             |
|----------------------|------------------|-------------------------|
| 4827G6               | 4827G6-BK        | Black two piece housing |

### PPMX Contacts

Package Quantity  
Standard, 50 pieces - Bulk, 2,000 pieces

#### Loose Piece

#20 to #24 AWG (0.50 to 0.25 mm<sup>2</sup>)

| Standard Part Number | Bulk Part Number | Description                   |
|----------------------|------------------|-------------------------------|
| 4802G3               | 4802G3-BK        | Socket, Gold, 50 Micro-inches |
| 4803G3               | 4803G3-BK        | Pin, Gold, 50 Micro-inches    |

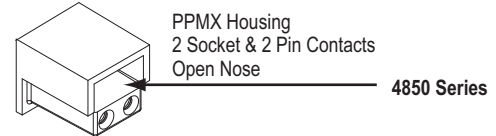
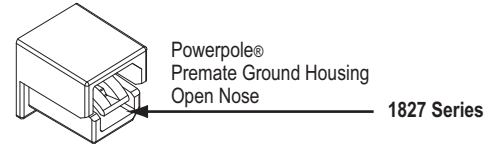
### PPMX Housing & Contact Kits

Package Quantity  
Standard, 100 pieces

1 Black two piece housing, 2 Male Contacts,  
2 Female Contacts

| Standard Part Number | Bulk Part Number | Description   |
|----------------------|------------------|---|
| 4850G6               | -                | 50 Micro-inches Gold Plated Contacts - Pin & Socket |

## PP15/45 POWERPOLE® HOUSING STYLES



## APPLICATION TOOLING - POWERPOLE® 15 / 45 CONTACTS

| Loose Piece Tin Part Number | Loose Piece Silver Part Number | Hand Tool           | or     | Pneumatic Tool | Reeled Tin Part Number | Reeled Silver Part Number | ATS Applicator |
|-----------------------------|--------------------------------|---------------------|--------|----------------|------------------------|---------------------------|----------------|
| N/A                         | 1332                           | 1309G2 or<br>1309G8 |        | 1367G1         | N/A                    | N/A                       | N/A            |
| N/A                         | 1331                           |                     |        | N/A            | N/A                    | N/A                       |                |
| 262G1-LPBK                  | 262G2-LPBK                     |                     |        | N/A            |                        | N/A                       | 261G1          |
| 200G2L-LPBK                 | 200G4L-LPBK                    | 200G2L              | 200G4L |                |                        |                           | TBD            |
| 261G1-LPBK                  | 261G4-LPBK                     | 261G1               | 261G4  |                |                        |                           | 1385520        |
| 261G2-LPBK                  | 261G3-LPBK                     | 261G2               | 261G3  |                |                        |                           | 1385458        |
| 200G1L-LPBK                 | 200G3L-LPBK                    | 200G1L              | 200G3L |                |                        |                           | 1385460        |
| 1830G1-LPBK                 | 1830G2-LPBK                    | 1309G6 or<br>1309G8 |        | N/A            | 1830G1                 | 1830G2                    | 1385460        |

\* All Hand and Pneumatic Tools for use with Loose Piece contacts only. All reeled contacts can be ordered singulated, (Loose Piece) with the suffix "- LPBK"

\*\* 1309G8 is a hand tool kit- includes dies and locators to make up 1309G2, 1309G3, & 1309G6

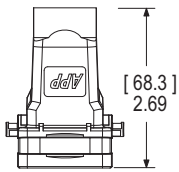
## APPLICATION TOOLING - PPMX CONTACTS

| Contact Part Number | APP® Hand Tool or | Mil Std. Hand Tool (APP Part #) | + Positioner         | + Pneumatic Tool for Locator / Turret |
|---------------------|-------------------|---------------------------------|----------------------|---------------------------------------|
| 4802G3              | PM1000G1          | M22520/1-01 (TM0001)            | No Mil Std. (TL0005) | TP0001                                |
| 4803G3              |                   |                                 |                      |                                       |

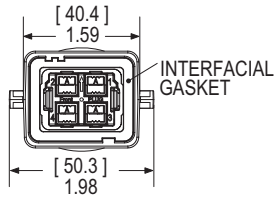
# Dimensions

## PLUG 4 POSITION FOR PP15/45 HOUSINGS

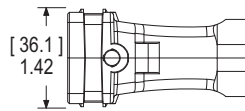
Top View



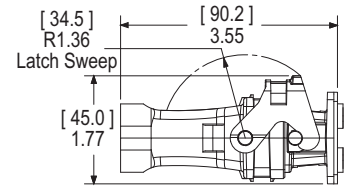
Front View



Side View

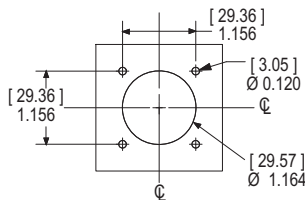


Mated Side View



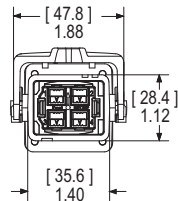
## PANEL MOUNT RECEPTACLE 4 POSITION FOR PP15/45 HOUSINGS

Panel Cut Out

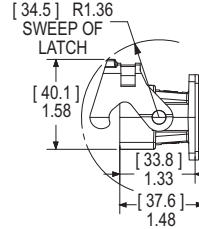


PANEL CUT OUT  $\varnothing$   
(SAME AS 26482 & 5015 SHELL SIZE 20)

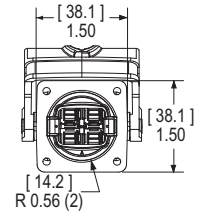
Front View



Side View

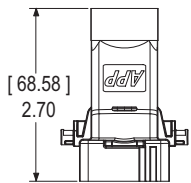


Back View

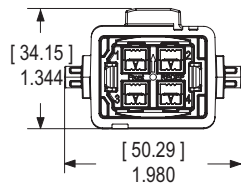


## INLINE RECEPTACLE 4 POSITION FOR PP15/45 HOUSINGS

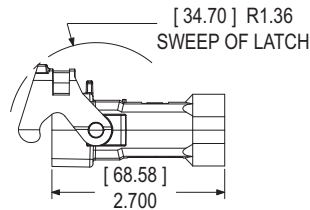
Top View



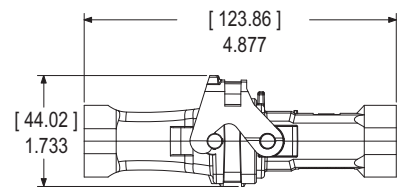
Front View



Side View

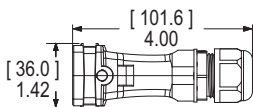


Mated Side View

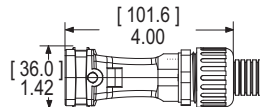


## PG GLANDS

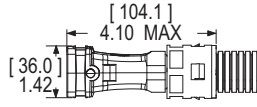
PS - Plastic Short



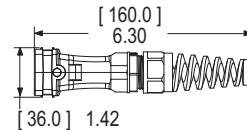
CT - Threaded Conduit Adapter



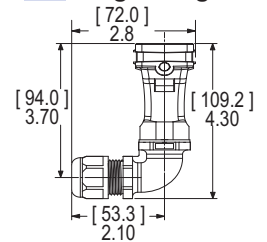
CA - Push-in Conduit Adapter



PF - Plastic Flex PG

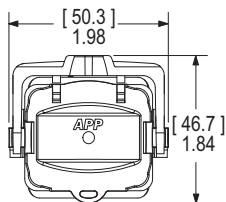


PR - Right Angle

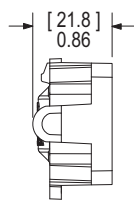


## RECEPTACLE COVER KIT

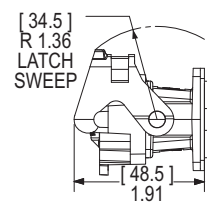
Front View



Side View

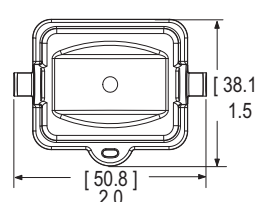


Mated Side View

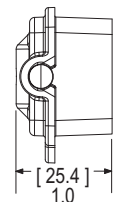


## PLUG COVER KIT

Front View



Side View



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SK9R-050