# 6 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

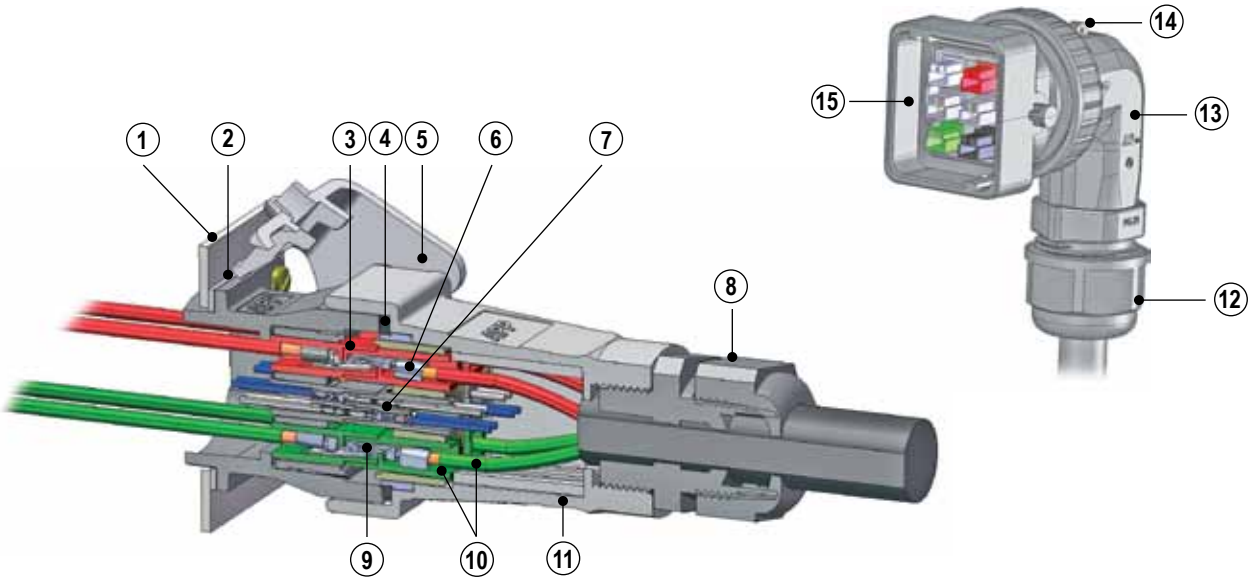
APP
Anderson Power Products®

# 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 interconnect with signal and ground capabilities 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 mm²), giving users thousands of flexible design solutions in a single interconnect.




**1 - Industry Standard Panel Cut Out**
(Same as 26482 & 5015 shell size 24)

**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 45 amps)

**7 - Signal Contacts** (4 contacts per PPMX housing)

**8 - Uses Industry Standard Sealing Components**
(PG gland compatible - size 21)

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

**10 - Color Coded Housings to Match Wire Color**

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

**Additional Features Available on the Right Angle Include:**

**12 - Uses Industry Standard PG Gland**
(PG gland compatible - size 21 or 29)

**13 - Right Angle Backshell Lockable in 8 Directions for Cable Routing**

**14 - Integrated Strain Relief**

**15 - Ruggedized Right Angle Plug Shell**

# 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) | 18 Max |
| (N) | 80 Max |
| IP Rating | IP68 |
| UL50 Sec 30 Sealing Requirement | Pass |

### Material

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

## PPMX (4800 Series) Powerpole® Signal Contact

**Ratings for SPEC Pak® Use**

### Electrical

| | |
|---|---|
| UL Current Rating (Amperes) | 7 |
| Voltage Rating (AC/DC) | 300 |
| Contact Barrel Wire Size (AWG) | #20 to #24 |
| ($mm^2$) | 0.5 to 0.25 |
| Contact Retention Force (lbf) | 12.0 |
| (N) | 53.0 |
| Insertion Force (lbf) | 4.5 Max |
| (N) | 20.0 Max |
| Operating Temperature (°C) | -20° to 105° |
| (°F) | -4° to 221° |

### Mechanical

| | |
|---|---|
| Mating Cycles (No load) | 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 (1827 Series) Contacts

**Ratings for SPEC Pak® Use**

### Electrical

| | |
|---|---|
| UL Current Rating (Amperes) | 15 to 45 |
| CSA (30°C Rise) (Amperes) | 10 to 29 |
| Voltage Rating (AC/DC) | 600 |
| Contact Barrel Wire Size (AWG) - Power | 20 to 10 |
| - Ground | 14 to 10 |
| ($mm^2$) - 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

| | |
|---|---|
| Mating Cycles | |
| No Load | |
| - 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 202 213 Cond. A |
| Vibration (10 g) | Mil Standard 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 (contact customer service) / Patents*

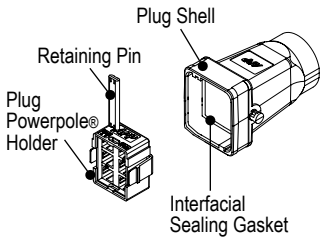
c US File No. E26226

# Part Number Configurator

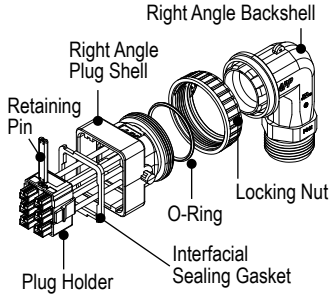
## PART NUMBER PLAN

| 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** | **K** | **2** | **-** | **053** | **B06** |
| S = SPEC Pak® Series | K = Black | 2 = Panel Mount Receptacle<br>6 = Straight Plug<br>8 = Right Angle Plug<br>9 = Cover | | 053 = 53 mm - 6 Pole Shell<br>A53 = 53 mm - 6 Pole Right Angle Shell, PG 21<br>B53 = 53 mm - 6 Pole Right Angle Shell, PG 29 | B06 = PP15/45 Housing (any type), 6 Pole |

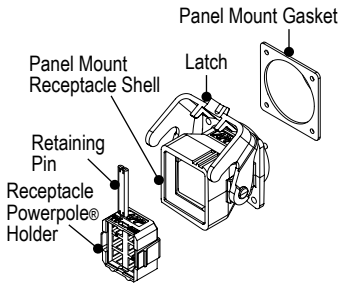
## PLUG KIT



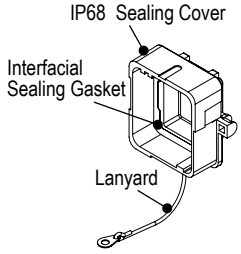

## RIGHT ANGLE PLUG KIT




## PANEL MOUNT RECEPTACLE KIT




## RECEPTACLE COVER KIT




*NOTE:*
*- Mounting hardware (4 each - M3.5 or #6 screws) not included*
*- Recommended torque for mounting hardware is 3½ to 5 in-lbf (0.4 to 0.56 Nm)*

## KIT ORDERING INFORMATION

### SPEC Pak® Kits

| Part Number | Description |
|---|---|
| SK6-053B06 | Plug kit<br>- Plug shell (includes interfacial sealing gasket)<br>- Powerpole® holder for plug<br>- Retaining pin |
| SK8-A53B06 | Right angle plug kit for PG 21<br>- Right angle backshell for PG 21<br>- Locking nut<br>- O-ring<br>- Plug shell<br>- Retaining pin<br>- Powerpole® holder for plug |
| SK8-B53B06 | Right angle plug kit for PG 29<br>- Right angle backshell for PG 29<br>- Locking nut<br>- O-ring<br>- Plug shell<br>- Retaining pin<br>- Powerpole® holder for plug |

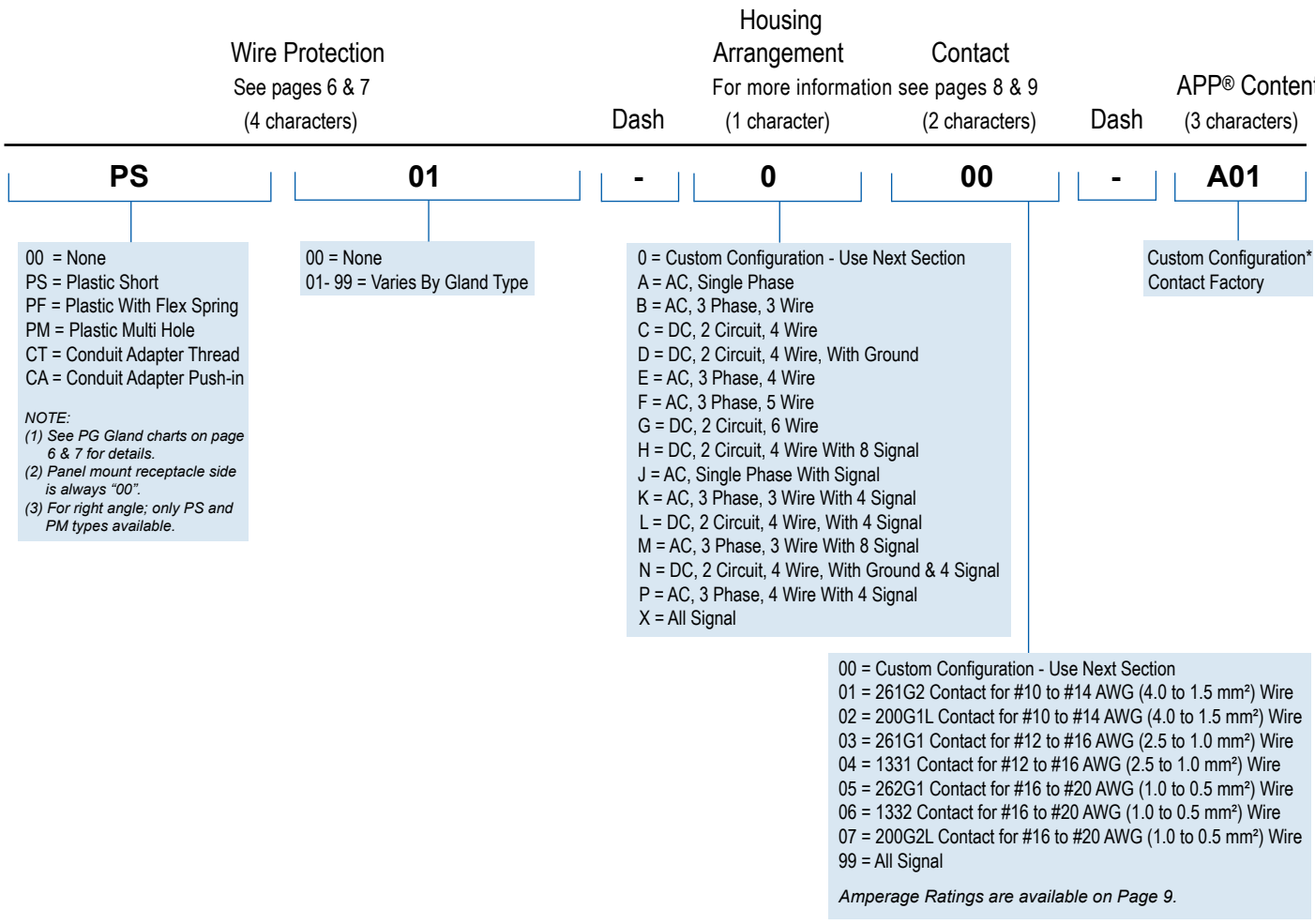
### SPEC Pak® Kits

| Part Number | Description |
|---|---|
| SK2-053B06 | Receptacle kit<br>- Panel mount gasket for receptacle<br>- Receptacle shell with latch<br>- Retention pin<br>- Powerpole® holder for receptacle |
| SK9-053 | Cover kit (receptacle only)<br>- Protective sealing (IP68) cover for receptacle with lanyard |

### Component Replacement Parts

| Part Number | Description |
|---|---|
| 114765P1 | Panel mount gasket for receptacle |
| 2-8658P1 | 6 position latch |
| 2-8654P1 | Right angle locking nut |
| 114915P2 | Right angle O-ring |

# PART NUMBER PLAN




## Part Numbering Notes:

1) To order SPEC Pak® "Shell Kits Only" (no internal Powerpole® housings or contacts), use part numbering on page 4 only. **Plug Shell Kit Example: SK6-053B06** 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® connector kits (including internal Powerpole® housings and contacts) use Part Number Plan across the top of pages 4 and 5. **Standard SPEC Pak® Plug Connector Kit Configuration Example: SK6-053B06PS01-D02**

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, or contact factory.

** Custom configurations may not be UL Recognized.*

# Wire Protection - PG Gland

## SPECIFICATIONS

| Material (Push-in Conduit) | |
|---|---|
| Shell | Nylon PA |
| Gasket | TPE |
| Color | Black |
| **Mechanical** | |
| Operating Temp | -30°C to 100°C (-22°F to 212°F) |
| IP Rating | IP68 |
| Thread Type | PG |

| Material (All Others) | |
|---|---|
| Shell | Nylon PA 66 (UL94 V-2)* |
| Gasket | EPDM |
| Color | Black |
| **Mechanical** | |
| Operating Temp | -40°C to 105°C (-40°F to 221°F) |
| IP Rating | IP68 |
| UV Rating | Equivalent to UL746C F1 |
| Thread Type | PG |

**Torque Requirements**

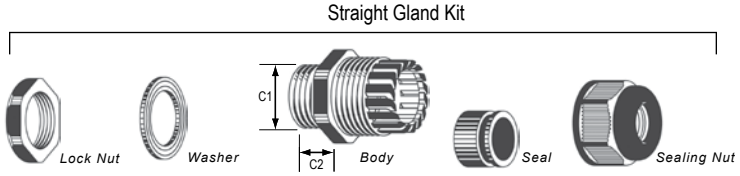
Cable Gland Body to Plug Housing
- Hand tighten until snug, tighten additional 1/8 - 1/4 turn with wrench

Sealing Nut to Cable
- Hand tighten until snug, tighten additional 1/2 - 3/4 turn with wrench

** Contact factory for UL94 V-0 material*

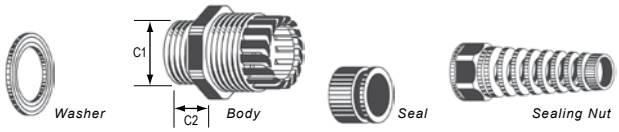
*NOTE: Only UL listed cable glands are UL recognized components when used with SPEC Pak® connector(s).*

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




| APP® P/N Right Angle | APP® P/N Straight | Wire Protection Designation (4 Characters) | PG Gland Size | 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| RPS1P21-16X | PS1P21-16X | PS01 | 21 | 1 | 16.2 - 10.5 (0.64 - 0.41) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.47) | 36 | 33 |
| RPS1P21-18X | PS1P21-18X | PS02 | 21 | 1 | 18.5 - 13 (0.73 - 0.51) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.47) | 36 | 33 |
| RPS1P29-22X | N/A | PS11 | 29 | 1 | 22 - 16 (0.86 - 0.63) | 37 (1.46) | 37 - 37.4 (1.46 - 1.47) | 12 (0.47) | 46 | 42 |
| RPS1P29-25X | N/A | PS12 | 29 | 1 | 25 - 18 (0.98 - 0.71) | 37 (1.46) | 37 - 37.4 (1.46 - 1.47) | 12 (0.47) | 46 | 42 |

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



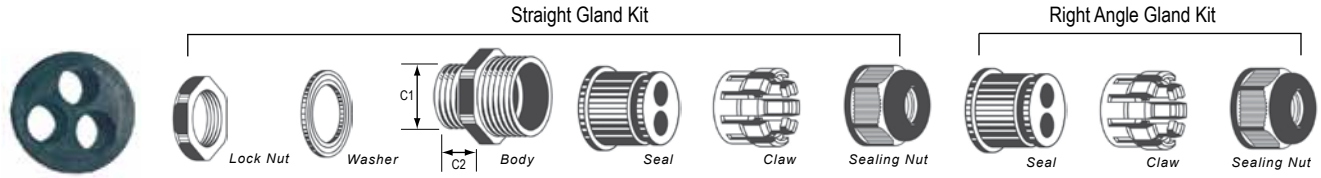

| APP® P/N Straight | Wire Protection Designation (4 Characters) | Cable Range Wire Outer Dia. mm (in) | Thread O. D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut (mm) | Wrench Size Sealing Nut (mm) |
|---|---|---|---|---|---|---|---|
| PF1P21-16X | PF01 | 15.8 - 10.5 (0.62 - 0.41) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.47) | 36 | 33 |

## LOCK NUT FOR PG 21 CABLE GLANDS

Lock Nut

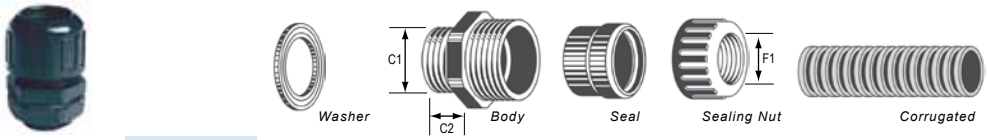
| APP® P/N | Wrench Size Lock Nut (mm) | Std. Pkg. Size |
|---|---|---|
| 124G30 | 36 | 50 |

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



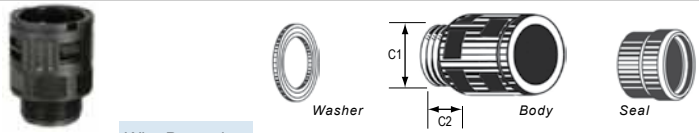

| APP® P/N Right Angle | APP® P/N Straight | Wire Protection Designation (4 Characters) | PG Gland Size | Number of Holes | Cable Range Wire Outer Dia. mm(in) | Thread O.D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut (mm) | Wrench Size Sealing Nut (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| RPS2P21-5X | PS2P21-5X | PM21 | 21 | 2 | 5.2 - 3.6 (0.20 - 0.14) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS2P21-6X | PS2P21-6X | PM22 | 21 | 2 | 6.5 - 5.1 (0.26 - 0.20) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS2P21-8X | PS2P21-8X | PM23 | 21 | 2 | 8.7 - 6.4 (0.34 - 0.25) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS3P21-5X | PS3P21-5X | PM31 | 21 | 3 | 5.2 - 3.6 (0.20 - 0.14) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS3P21-6X | PS3P21-6X | PM32 | 21 | 3 | 6.2 - 4.8 (0.24 - 0.19) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS3P21-8X | PS3P21-8X | PM33 | 21 | 3 | 8.0 - 6.2 (0.31 - 0.24) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS4P21-3X | PS4P21-3X | PM41 | 21 | 4 | 3.1 - 2.0 (0.12 - 0.08) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS4P21-4X | PS4P21-4X | PM42 | 21 | 4 | 4.1 - 3.0 (0.16 - 0.12) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS4P21-5X | PS4P21-5X | PM43 | 21 | 4 | 5.2 - 3.8 (0.20 - 0.15) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS4P21-7X | PS4P21-7X | PM44 | 21 | 4 | 7.3 - 5.6 (0.29 - 0.22) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS5P21-3X | PS5P21-3X | PM51 | 21 | 5 | 3.6 - 2.6 (0.14 - 0.10) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS5P21-4X | PS5P21-4X | PM52 | 21 | 5 | 4.6 - 3.6 (0.18 - 0.14) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS5P21-6X | PS5P21-6X | PM53 | 21 | 5 | 6.0 - 4.6 (0.24 - 0.18) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS6P21-3X | PS6P21-3X | PM61 | 21 | 6 | 3.6 - 2.6 (0.14 - 0.10) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |
| RPS6P21-5X | PS6P21-5X | PM62 | 21 | 6 | 5.2 - 3.6 (0.20 - 0.14) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12.5 (0.49) | 36 | 33 |

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




| APP® P/N | Wire Protection Designation (4 Characters) | Max. Joint F1 mm (in) | Thread O.D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut (mm) | APP® Conduit P/N | Conduit O. D. |
|---|---|---|---|---|---|---|---|---|
| CT1P21-21X | CT02 | 22.0 (0.87) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.47) | 36 | NGN - 17B | 21.2 (0.83) |
| CT1P21-26X | CT03 | 26.5 (1.04) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.47) | 36 | NGN - 22B | 26.2 (1.03) |
| CT1P21-28X | CT04 | 28.5 (1.12) | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.47) | 36 | NGN - 23B | 28.5 (1.12) |

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




| APP® P/N | Wire Protection Designation (4 Characters) | Thread O.D. C1 mm (in) | Panel Mounting Hole mm (in) | Thread Length C2 mm (in) | Wrench Size Lock Nut (mm) | APP® Conduit P/N | Conduit O. D. |
|---|---|---|---|---|---|---|---|
| CAP21-28X | CA04 | 28.3 (1.11) | 28.3 - 28.7 (1.11 - 1.13) | 12 (0.5) | 36 | NGN - 23B | 28.5 (1.12) |

# CORRUGATED NYLON PLASTIC TUBING

| APP® P/N | Conduit I. D. mm (in) | Conduit O. D. mm (in) | Conduit Size | Trade Size (mm) | Std. Pkg. Meters (Feet) |
|---|---|---|---|---|---|
| NGN - 17B | 16.7 (0.66) | 21.2 (0.83) | 1/2" | OD21.2 | 50 (164) |
| NGN - 22B | 21.2 (0.83) | 26.2 (1.03) | - | - | 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) |
|---|---|---|
| TM0002 | 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

**E = Empty** **1327 Series = Power** **1827 Series = Ground** **4800 Series = Signal**

**0** Custom Configuration

**A** AC Single Phase

| | |
|---|---|
| 1327G6FP | E |
| E | 1827G1 |
| 1327G7FP | E |

**B** AC 3 Phase, 3 Wire

| | |
|---|---|
| 1327G6FP | E |
| 1327G7FP | 1827G1 |
| 1327FP | E |

**C** DC 2 Circuit, 4 Wire

| | |
|---|---|
| 1327G6FP | 1327G6FP |
| E | E |
| 1327FP | 1327FP |

**D** DC 2 Circuit, 4 Wire With Ground

| | |
|---|---|
| 1327G6FP | 1327G6FP |
| E | 1827G1 |
| 1327FP | 1327FP |

**E** AC 3 Phase, 4 Wire

| | |
|---|---|
| 1327G6FP | 1327G8FP |
| 1327G7FP | 1827G1 |
| 1327FP | E |

**F** AC 3 Phase, 5 Wire

| | |
|---|---|
| 1327G6FP | 1327G8FP |
| 1327G7FP | 1827G1 |
| 1327FP | 1327G16FP |

**G** DC 2 Circuit, 6 Wire

| | |
|---|---|
| 1327FP | 1327G6FP |
| 1327FP | 1327G6FP |
| 1327FP | 1327G6FP |

**H** DC 2 Circuit, 4 Wire With 8 Signal

| | |
|---|---|
| 1327G6FP | 1327G6FP |
| 4827G6 | 4827G6 |
| 1327FP | 1327FP |

**J** AC Single Phase With 4 Signal

| | |
|---|---|
| 1327G6FP | E |
| E | 1827G1 |
| 1327G7FP | 4827G6 |

**K** AC 3 Phase, 3 Wire With 4 Signal

| | |
|---|---|
| 1327G6FP | E |
| 1327G7FP | 1827G1 |
| 1327FP | 4827G6 |

**L** DC 2 Circuit, 4 Wire With 4 Signal

| | |
|---|---|
| 1327G6FP | 1327G6FP |
| E | 4827G6 |
| 1327FP | 1327FP |

**M** AC 3 Phase, 3 Wire With 8 Signal

| | |
|---|---|
| 1327FP | 1327G7FP |
| 4827G6 | 4827G6 |
| 1327G6FP | 1827G1 |

**N** DC 2 Circuit, 4 Wire With Ground & 4 Signal

| | |
|---|---|
| 1327G6FP | 1327G6FP |
| 4827G6 | 1827G1 |
| 1327FP | 1327FP |

**P** AC 3 Phase, 4 Wire With 4 Signal

| | |
|---|---|
| 1327G6FP | 1327G8FP |
| 1327G7FP | 1827G1 |
| 1327FP | 4827G6 |

**X** All Signal

| | |
|---|---|
| 4827G6 | 4827G6 |
| 4827G6 | 4827G6 |
| 4827G6 | 4827G6 |

# CONTINUOUS CURRENT RATINGS - POWER CONTACT CODE SELECTION

| Contact Code | Power Contacts | Housing Configuration | Wire Size / Current Rating | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | #10 | #12 | #14 | #16 | #18 | #20 |
| 00 | Contacts Purchased Separately | | | | | | | |
| 01 | 261G2 | A - C | 29/40 | 20/33 | 15/23 | — | — | — |
| | | D - G | 24/36 | 20/25 | 15/21 | — | — | — |
| | | H - P | 29/40 | 20/33 | 15/22 | — | — | — |
| 02 | 200G1L | A - C | 27/37 | 20/32 | 15/22 | — | — | — |
| | | D - G | 22/33 | 18/25 | 15/20 | — | — | — |
| | | H - P | 27/37 | 20/32 | 15/22 | — | — | — |
| 03 | 261G1 | A - C | — | 20/33 | 15/23 | 12/18 | — | — |
| | | D - G | — | 20/25 | 15/21 | 12/18 | — | — |
| | | H - P | — | 20/33 | 15/22 | 12/18 | — | — |
| 04 | 1331 | A - C | — | 17/25 | 15/25 | 13/20 | — | — |
| | | D - G | — | 15/25 | 15/22 | 13/18 | — | — |
| | | H - P | — | 17/25 | 15/20 | 13/20 | — | — |
| 05 | 262G1 | A - C | — | — | — | 12/18 | 10/15 | 7/10 |
| | | D - G | — | — | — | 12/18 | 8/13 | 6/9 |
| | | H - P | — | — | — | 12/18 | 10/15 | 7/10 |
| 06 | 1332 | A - C | — | — | — | 13/20 | 9/14 | 6/9 |
| | | D - G | — | — | — | 13/18 | 7/12 | 5/8 |
| | | H - P | — | — | — | 13/20 | 9/14 | 6/9 |

*NOTES:*

*1. Current ratings:*
- *First number represents current rating per pole for 30°C temperature rise (29 / 40)*
- *Second number is the maximum recommended current per pole based on a 25°C ambient (29 / 40)*

*2. Configuration H - P 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 c UL us File No. E26226 pending.*

*5. 1827G1 housing with 1830G1 or 1830G2 ground contact depending on primary contacts (see chart above). All signal housing kits (4850G6) come with two 4802G3 and two 4802G3 contacts.*

# HOLDER LOCATIONS (VIEWS)

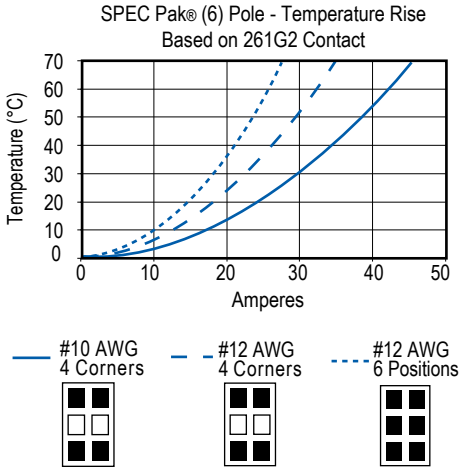
**Receptacle**

| Front | | Back | |
|---|---|---|---|
| 1 | 2 | 2 | 1 |
| 3 | 4 | 4 | 3 |
| 5 | 6 | 6 | 5 |

**Plug**

| Front | | Back | |
|---|---|---|---|
| 2 | 1 | 1 | 2 |
| 4 | 3 | 3 | 4 |
| 6 | 5 | 5 | 6 |

# 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 mm²) | |
| 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 mm²) | |
| 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 mm²) | | |
| 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 mm²) | | |
| 1331 | 1331-BK | Individual-LD-Silver Plate |
| 261G1-LPBK | - | Singulated Reel-LD-Tin Plate |
| #10 to #14 AWG (4 to 1.5 mm²) | | |
| 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 mm²) | |
| 262G1 | Reel-LD-Tin Plate |
| 262G2 | Reel-LD-Silver Plate |
| #12 to #16 AWG (2.5 to 1.0 mm²) | |
| 261G1 | Reel-LD-Tin Plate |
| #10 to #14 AWG (4 to 1.5 mm²) | |
| 261G2 | Reel-LD-Tin Plate |
| 261G3 | Reel-LD-Silver Plate |
| #10 to #14 AWG (6 to 1.5mm²) | |
| 200G1L | SuperFlex, Reel-LD-Tin Plate |

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

## CONTACT STYLES

Individual | Singulated Open Barrel | On a Reel

## PPMX (4800 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 mm²)**

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

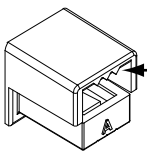
### PPMX Housing & Contact Kits

**Package Quantity**
**Standard, 100 pieces**

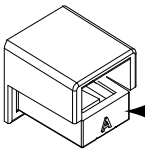
**1 Black two piece housing, 2 Male Contacts, 2 Female Contacts**

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

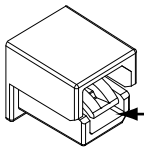
## PP15/45 POWERPOLE® HOUSING STYLES



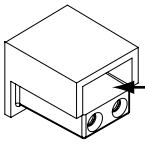
Powerpole®
Fingerproof Housing
Rib Feature
**1327FP Series**



Powerpole®
Standard Housing
Closed Nose
**1327 Series**



Powerpole®
Premate Ground Housing
Open Nose
**1827 Series**



PPMX Housing
2 Socket & 2 Pin Contacts
Open Nose
**4800 Series**

## APPLICATION TOOLING - POWERPOLE® 15 / 45 CONTACTS

| Loose Piece Tin Part Number | Loose Piece Silver Part Number | Hand Tool | or | Pneumatic Tool |
|---|---|---|---|---|
| N/A | 1332 | 1309G2 or 1309G8 | | 1367G1 |
| N/A | 1331 | | | |
| 262G1-LPBK | 262G2-LPBK | | | N/A |
| 200G2L-LPBK | 200G4L-LPBK | | | |
| 261G1-LPBK | 261G4-LPBK | 1309G3 or 1309G8 | | |
| 261G2-LPBK | 261G3-LPBK | | | |
| 200G1L-LPBK | 200G3L-LPBK | 1309G6 or 1309G8 | | |
| 1830G1-LPBK | 1830G2-LPBK | | | |

| Reeled Tin Part Number | Reeled Silver Part Number | ATS Applicator |
|---|---|---|
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| 261G1 | 262G2 | 1385520 |
| 200G2L | 200G4L | TBD |
| 261G1 | 261G4 | 1385520 |
| 261G2 | 261G3 | 1385458 |
| 200G1L | 200G3L | 1385460 |
| 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

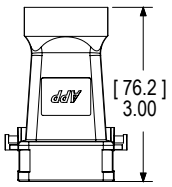
## APPLICATION TOOLING - PPMX CONTACTS

| 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 | | | | | | | |

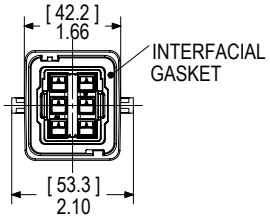
# Dimensions

## PLUG 6 POSITION FOR PP15/45 HOUSINGS

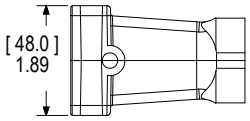
**Top View**



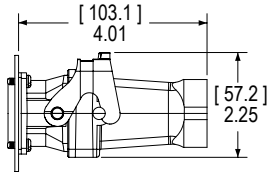

**Front View**




**Side View**

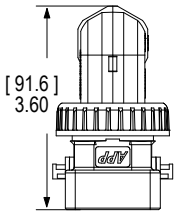



**Mated Side View**

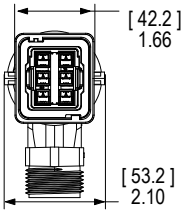



## RIGHT ANGLE PLUG 6 POSITION FOR PP15/45 - GLAND SIZE PG 21

**Top View**

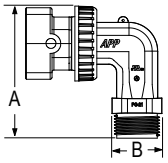



**Front View**



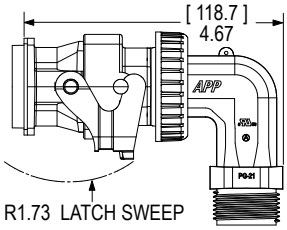

**Side View**

**PR**




| PG Gland | - A - mm | in. | - B - mm | in. |
|---|---|---|---|---|
| PG 21 | 104.7 | 4.12 | 36.4 | 1.43 |
| PG 29 | 105.5 | 4.15 | 47.4 | 1.86 |

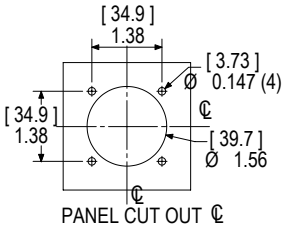
**Mated Side View**




For PG 29 dimensions, please see APP website

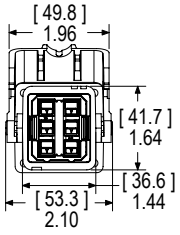
## RECEPTACLE 6 POSITION FOR PP15/45 HOUSINGS

**Panel Cut Out**

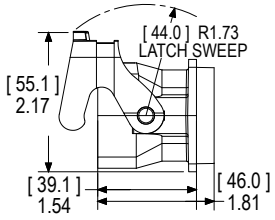



PANEL CUT OUT ℄
(SAME AS 26482 & 5015 SHELL SIZE 24)

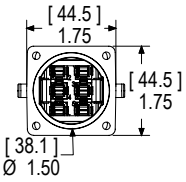
**Front View**




**Side View**




**Back View**

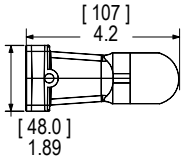



NOTE: Mounting hardware #6 screw / torque receptacle to panel 3½ to 5 in-lbf (0.4 to 0.56 Nm)

## PG GLANDS

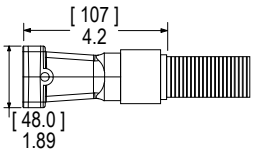
**PS**

**Plastic Short**



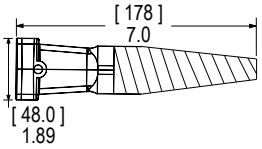

**CT**

**Thread Conduit Adapter**



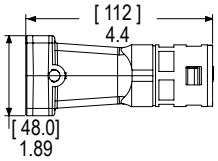

**PF**

**Plastic Flex PG**



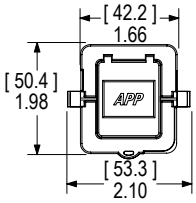

**CA**

**Push-in Conduit Adapter**

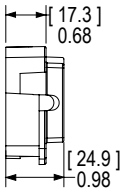



## RECEPTACLE COVER KIT

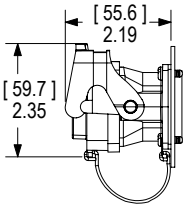
**Front View**




**Side View**




**Mated Side View**



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**www.andersonpower.com**

# Mouser Electronics

Authorized Distributor

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Anderson Power Products:

RPS1P21-18X

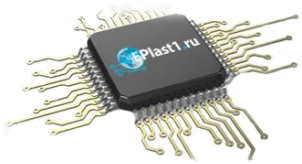
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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