# Power Transition Terminal
## Installation Instructions

## Overview

PPC's Power Transition Terminal is designed for wireless and other DC powered equipment applications. The ruggedized IP67 enclosure is designed to perform in the harshest environments. The Power Transition Terminal is the ideal choice for installations that require re-distribution of large gauge power wire to smaller gauge power wires.

| PPC Part Number | Configuration | Description |
|---|---|---|
| PA01A0A0A0J01-61 | 1:1 | Power Transition Terminal, 1 Power Entry, 1 Power Exit, 1 Ground Exit |
| PA02A0A0A1J01-61 | 1:2 | Power Transition Terminal, 1 Power Entry, 2 Power Exits, 1 Ground Exit |
| PA03A0A0A2J01-61 | 1:3 | Power Transition Terminal, 1 Power Entry, 3 Power Exits, 1 Ground Exit |

## Enclosure Mounting

### Wall Mount
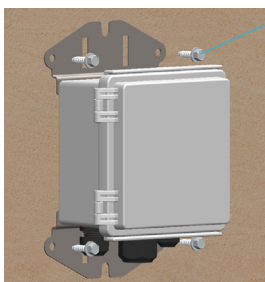
Mounting Hardware

1. Suggested fastener size: 1/4" or M6 (not provided)
2. Mark wall for four pilot holes with spacing as follows:
    Horizontal: 5.25 in (133.4 mm)
    Vertical: 6.86 in (174.2 mm)
3. Verify pilot holes align with bracket holes, adjust if needed
4. Drill pilot holes
5. Loosely install one top screw
6. Level enclosure horizontally and vertically
7. Tighten top screws securely
8. Install bottom screws and tighten securely

### Pole Mount with Lag Screw
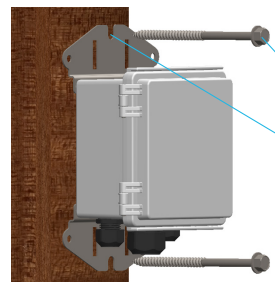
Mounting Hardware

Center Mounting Key Slot

1. Suggested fastener size: 3/8" or M8 (not provided)
2. Mark pole for two pilot holes with spacing as follows:
    Vertical: 8.63 in (219.2 mm)
3. Verify pilot holes align with bracket slots, adjust if needed
4. Drill pilot holes
5. Loosely install bottom screw leaving a gap for the bracket
6. Install enclosure and level horizontally and vertically
7. Tighten bottom screw securely
8. Install top screw and tighten securely

### Pole Mount with Straps
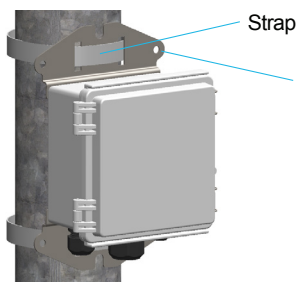
Strap

Metal Pole Mount Bracket

1. Maximum band width (bands not provided): 1.0 in (25.4 mm)
2. Loosely install top and bottom bands through bracket slots and around pole
3. Tighten top band securely
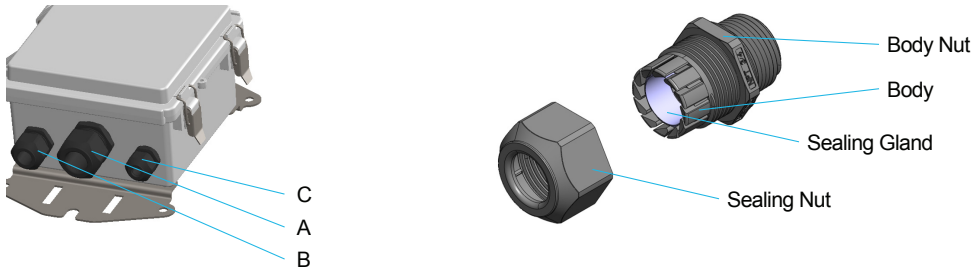4. Level enclosure horizontally and vertically
5. Tighten bottom band securely

These products may be protected by one or more patents • For further information, please visit: www.ppc-online.com/patents

## Cable Installation

**Cable Glands**



Body Nut
Body
Sealing Gland
Sealing Nut

C
A
B

1. Remove cable gland sealing nut
2. Verify rubber sealing gland is present in the gland body
3. Pass the cable through domed end of cable gland sealing nut
4. Pass the cable through gland body
5. Connect cable inside enclosure (see next section)
6. Tighten cable gland sealing nut per table below
    Note: Body nut must be held tight while tightening sealing nut
7. Repeat for remaining cables – 1 to 1 configuration shown,
    other configurations have additional type B glands

## Cable Gland Sizes and Torque Values

| Gland | Intended Cable | Cable Ø Range | Wrench Flat Width | Sealing Nut Torque |
|---|---|---|---|---|
| A | 6 AWG (16 mm²) 2-conductor supply cable | 0.435 in - 0.705 in (11.0 mm - 17.9 mm) | 1.30 in (33.0 mm) | 80 - 85 in-lbs (9.0 - 9.6 N-m) |
| B | 12 AWG (0.5 mm²) 2-conductor cable to radio | 0.170 in - 0.450 in (4.3 mm - 11.4 mm) | 0.98 in (24.9 mm) | 50 - 55 in-lbs (5.6 - 6.2 N-m) |
| C | 6 AWG (16 mm²) single ground wire | 0.105 in - 0.315 in (2.7 mm - 8.0 mm) | 0.83 in (21.1 mm) | 33 - 38 in-lbs (3.7 - 4.3 N-m) |

## Terminal Blocks
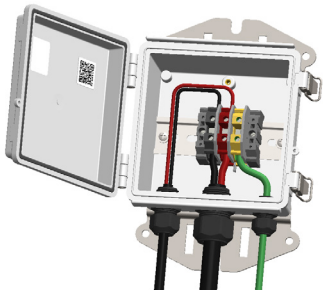


1. Terminal blocks accept 20 to 6 AWG (0.5 mm² to 16 mm²)
2. Wire strip length: 0.4 in (10 mm)
3. Required tool: Flat-head screwdriver or bit, Ø 3/16 in (Ø 5 mm) max
4. Terminal block screw torque: 13 - 16 in-lbs (1.5 - 1.8 N-m)
5. Attach the ground wire to the bottom of the green/yellow terminal block
6. Attach the supply cable to the bottom of the red & black terminal blocks
7. Route the radio cable(s) around the side(s) and attach to the top of the red &
    black terminal blocks – be sure to maintain positive/negative polarity