

Mid Power SPEC Pak® Panel Mount Receptacle Assembly Instructions

Panel Mount Receptacle Shell Kit:



Tools you will need:

- Wire Lubricant
- Crimp Tool(s)
- Philips Head Screw Driver

1. Panel Mount Receptacle on panel

- Clean and dry panel surface thoroughly.
- Orient shell with APP SPEC Pak® up. (See figure 1)
- Sandwich panel mount receptacle gasket between panel and panel mount receptacle shell. (See figure 1)
- Secure the panel mount receptacle shell and gasket to the panel with four (4) each M4 or #8 screws (not included) in an alternating manner. Suggested torque 7 - 10 in-lbs.
- Slide approximately 8 inches (203.2 mm) of wire through the panel mount receptacle.

2. Prepare Wires

- Strip approximately 2 3/4 inches (69.8 mm) from the outer cable jacket, if applicable.
- Strip individual wire taking care not to damage the copper conductor. (See Table 1)

Table 1 (See figure 2)

APP Contact Part Number	Amps	“X” Inches	“X” mm	For more details, see document:
1307	75	9/16”	14.5	1S1072
5953				
PM16S2024S32	5	Wire Insulation OD < crimp barrel ID 0.21” (5.5mm)		1S6420
PM16S1620S32		----		
PM16S1416S32		Wire Insulation OD > crimp barrel ID 0.28” (7.0mm)		
PM16S12S32				

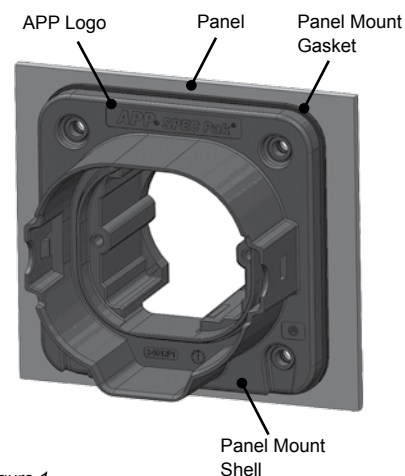


Figure 1

3. Crimp Contacts

- Crimp contacts per crimp tool instructions. (See Table 2)

WARNING: Crimping with non-APP recommended tools may product high resistance or contact distortion resulting in improper seating of the contact in the Powerpole® housing and may effect UL & CSA approval.
- Keep all contacts parallel to each other while crimping. (See figure 2)

NOTE: This will ensure that contacts remain in proper position for mating and un-mating once installed into the Powerpole® housings. It will also make installation into Powerpole® holder easier.

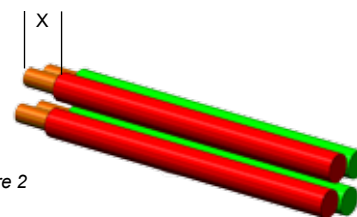


Figure 2

Table 2

APP Contact PN	Wire Size	Hand Tool PN	Instruction Sheet PN	Please inquire for additional tooling options:
1307	6 AWG 13.30 mm²	1309G4	1S6373	Pneumatic
5953	10 – 12 AWG 5.30 – 3.30 mm²			
PM16S2024S32	24 – 20 AWG 0.25 – 0.50 mm²	PM1000G1	1S6497	Pneumatic
PM16S1620S32	20 – 16 AWG 0.50 – 1.30 mm²			
PM16S1416S32	16 – 14 AWG 1.30 – 2.10 mm²			
PM16S12S32	12 AWG 3.30 mm²			

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4. Populate Powerpole® holders

- Orient Powerpole® housing with hood up. (See figure 3)
- Block Powerpoles® by interlock dovetails. The Powerpole® housing will be stacked one (1) wide and two (2) high. (See figure 4)
- Orient Powerpole® holder with  on the right.
 - Positions for the power contacts are labeled A thru D with A being in the upper left corner as you are looking at the front of the holder or upper right corner as you are looking at the back of the holder. (See figure 5)
 - Positions for the auxiliary (PowerMod®) contacts are labeled with 1 and 8. 1 is located in the upper left corner and 8 located in the lower right corner as you are looking at the front of the holder. (See figure 5)
- Insert first set of 1x2 blocked Powerpole® from the rear. Hood is up. (See figure 3) **NOTE:** You feel them snap into place when fully inserted.
- Insert second set of 1x2 blocked Powerpole® from the rear, if applicable. Hood is up. **NOTE:** You feel them snap into place when fully inserted.

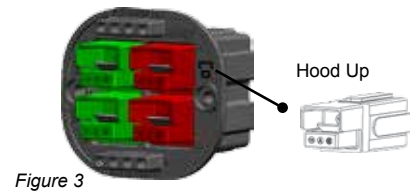


Figure 3



Figure 4

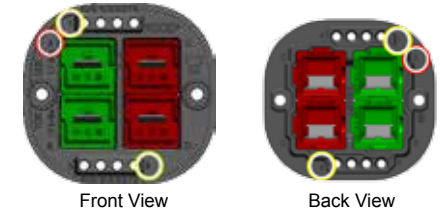


Figure 5

5. Power contact installation

- Orient the Powerpole® housing with hood up. (See figure 3)
- Insert contact, from the back, into the Powerpole® housing per your configuration. (See figure 6) Contacts will snap into place.
NOTE: The contact will slip under the internal barrier and snap over the internal retaining pin. (See figure 7)
- Repeat Step 5b as necessary.



Figure 6

6. Auxiliary contact installation, if applicable

- Insert socket, from the back, into the Powerpole® holder per your configuration. Contacts will snap into place. (See figure 8)



Figure 7

7. Final Assembly

- Orient Powerpole® holder with  on the right.
- Slide holder into shell. (See figure 9) **NOTE:** The holder will only go in one way.
- Using two(2) M3.5 x 15mm Phillips head screws, secure the holder to the shell.
 - Recommended torque: 10 in-lbs (1.1 N-m)

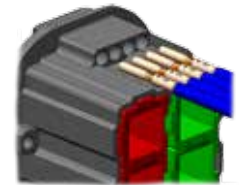


Figure 8

8. Assembly is complete, (See figure 10)

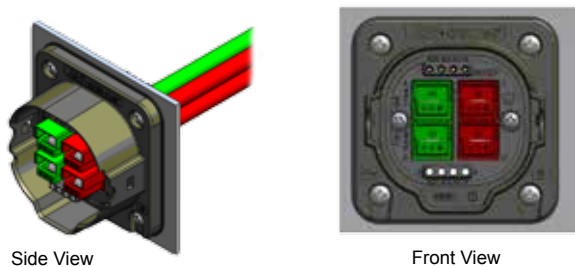


Figure 10

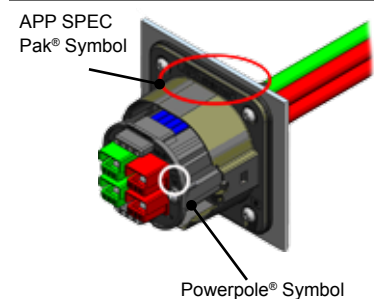


Figure 9

NOTE: Mounting hardware (4 each M4 or #8 screws) not included.
Recommended torque for mounting hardware 7-10 in-lb.

All Data Subject To Change Without Notice

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15802, 1S6576 REV 02

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