

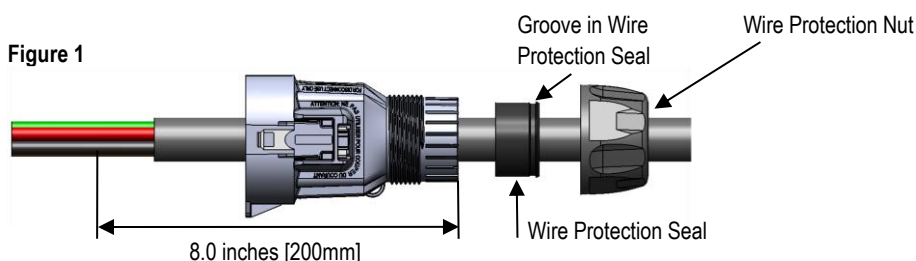
## Mid Power SPEC Pak®

PN: SK6-076D05 & PK6-076DA5

### Plug (Pin) Assembly Instructions

#### 1. Wire Protection

- a. Strip 2-1/8" to 2-1/4" (54 to 57 mm) from the outer cable jacket, if applicable.
- b. If needed, lubricate individual wires using Isopropyl alcohol. **WARNING:** Dry thoroughly before energizing the circuit. Follow all cautions on the lubricant container.
- c. Slide a minimum of 8 inches (200 mm) of wires through wire protection nut, wire protection seal (with the groove facing the wire protection nut) and plug shell. ( see figure 1)
- d. Insert wire protection seal into shell. (see figure 1)



#### 2. Prepare Wires

- a. Strip individual wire(s) taking care not to damage the copper conductor. (see table 1)

APP Contact Part Number	Contact Size	Wire Size AWG (8.4 - 6.0mm <sup>2</sup> )	Strip Length		Wire Jacket Outer Diameter (typical)	Wire Stranding
			Inches	MM		
PP08SSN	#8	#8 - #10 (8.4 - 6.0mm <sup>2</sup> )	.500" +/- 0.020"	12.70mm +/- 0.51mm (8.4 - 6.0mm <sup>2</sup> )	0.763" (typical)	37
PC08SGH						

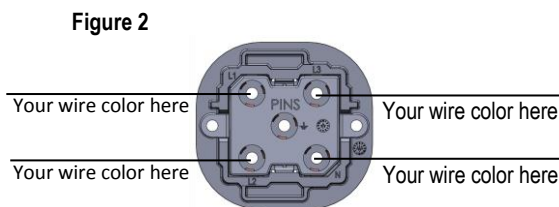
#### 3. Crimp Contacts

- a. Crimp contacts per crimp tool instructions. (see table 2). **WARNING:** Crimping with non-APP recommended tools may produce high resistance and may effect UL & CSA approval.

APP Contact Part Number	Wire Size AWG (8.4 - 6.0mm <sup>2</sup> )	Pneumatic Bench Tool	Die	Locator	Tool Pressure
PP08SSN	#8 - #10 (8.4 - 6.0mm <sup>2</sup> )	1387G1	1388G6	1389G19	80
PC08SGH					

#### 4. Populate Contact Holders

- a. Hold the contact holder so that the back is facing you. The wire positions are labeled L1, L2, L3 and N on the back of the holder. (see figure 2)



- b. Determine your wire color code. Use (figure 2) above to note the color for each position.
- c. Splay out and arrange all the wires so that they are in line with their position in the holder. Some wires will need to cross under/over to line up properly. (see figure 3)
- d. Starting with the ground wire, insert pin(s), from the back, into the holder. Contacts will snap into place and should rotate freely when installed. (see figure 4)

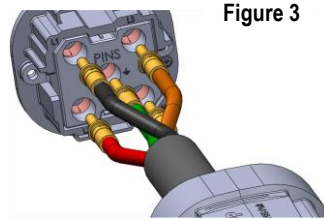


Figure 3

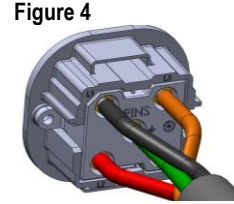


Figure 4

## 5. Final Assembly

- a. Orient shell with "APP® SPEC Pak®" up and contact holder with the word "PLUG" on top. (see figure 5)
- b. Slide holder into shell. **NOTE:** The holder will only go in with the proper orientation.
- c. Using the provided Phillips head screws, secure the holder to the shell.
- d. Recommended torque: 10 in-lbs. (1.1 N-m)
- e. Gently pull on the power contact wires to remove excess slack in the wires.
- f. Hand tighten wire protection nut.
- g. Using a 44 mm wrench or strap wrench, tighten wire protection nut  $\frac{3}{4}$  to 1 turn.

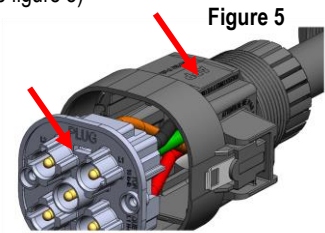


Figure 5

## 6. Assembly is Complete (see figure 6)

- a. The connector is considered in compliance with UL 6703 only when assembled in a manner specified by these assembly instructions.

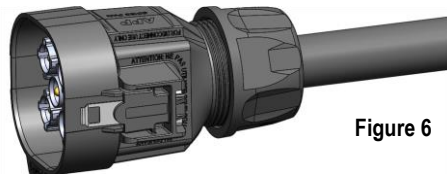


Figure 6

## 7. NOTE: Solar Mid Power SPEC Pak®

- a. To unlock Solar Mid Power Plug from Mid Power Receptacle(s)
  - i. Insert a flat head screwdriver into the slot on the latch and apply pressure. (see figure 7)
  - ii. Gently pull on the connector to release the latch on that side.
  - iii. Repeat the above two steps on the opposite side.

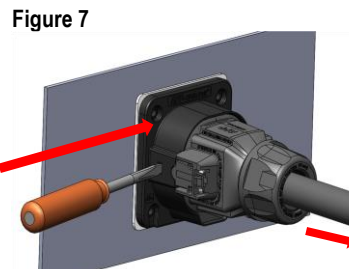


Figure 7