Anderson Power Products

Your Best Connection

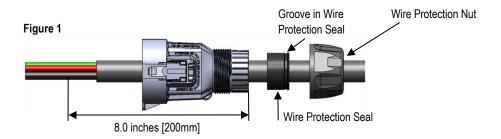
An IDEAL Company

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)

Table 1						
1000 1 10 1	Contact Size	Wire Size AWG	Strip Length		Wire	
APP Contact Part Number			Inches	ММ	Jacket Outer Diameter	Wire Stranding
PP08SSN	#8	#8 - #10	.500" +/- 0.020"	12.70mm +/- 0.51mm	0.763"	37
PC08SGH	#0	(8.4 - 6.0mm ²)	.500 +/- 0.020	(8.4 - 6.0mm²)	(typical)	

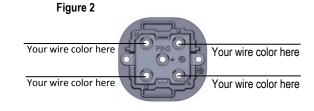
3. Crimp Contacts

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.

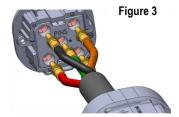
Table 2					
APP Contact Part Number	Wire Size AWG	Pneumatic Bench Tool	Die	Locator	Tool Pressure
PP08SSN	#8 - #10	1387G1	1388G6	1389G19	80
PC08SGH	(8.4 - 6.0mm²)	130761	130000	1309019	00

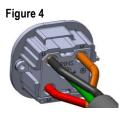
4. Populate Contact Holders

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)



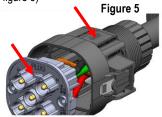
- b. Determine your wire color code. Use (figure 2) above to note the color for each position.
- c. Splay out and arrange all the wires so that they are in line with their position in the holder. Some wires will need to cross under/over to line up properly. (see figure 3)
- d. Starting with the ground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





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 ³/₄ to 1 turn.



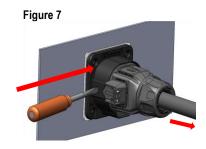
6. Assembly is Complete (see figure 6)

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



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.



All Data Subject To Change Without Notice

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HEADQUARTERS: Anderson Power Products®, 13 Pratts Junction Road, Sterling, MA 01564-2305 USA T:978-422-3600 F:978-422-0128 • EUROPE: Anderson Power Products® Ltd., Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7TN United Kingdom T: +44 (0) 1925 428390 F: +44 (0) 1925 520203 • ASIA / PACIFIC: IDEAL Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T:+(852) 2636 0836 F:+(852) 2635 9036 • CHINA: IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou Western Industrial Park, Songgang Baoan District, Shenzhen, PR. China 518105 T: +(86) 755 2768 2118 F: +(86) 755 2768 2218 • TAIWAN: IDEAL Anderson Asia Pacific Ltd., Taiwan Branch, 4F.-2, No.116, Dadun 20th St., Situn District, Taichung City 407, Taiwan (R.O.C.) T: +(886) 4 2310 6451 F:+(886) 4 2310 6460 • www.andersonpower.com