

SPEC Pak 4 Position Plug

Assembly Instructions

SPEC Pak Plug Kit (SK6-053B06) Components



Powerpole Holder, Plug



Plug Shell, 4 Position

Wire Protection Product Options for SPEC Pak Plugs Sold Separately (Contact Factory for More Information)

1. Slide sealing gland onto wires or cable with PG16 sized threads facing the direction of the rear of the SPEC Pak Connector. (See Figure 1) See SPEC Pak Data Sheet for additional information on Sealing Gland Selection.

2. Cable and / or wire preparation

2a. Jacketed Cable – Strip approximately 1 1/2 inches (38 mm) of the outer jacket. Strip insulation from individual wires according to lengths listed in 2b & 2c below, being careful not to damage the copper conductors. Be sure to allow length for any future service, as required. (See Figure 1)

2b. Discrete Wire for Powerpole or Ground contacts – Strip insulation 5/16 inch (8 mm) from the end of the wires to be terminated, being careful not to damage the copper conductors. (See assembly instruction 1S1072 for complete instructions)

2c. Discrete wires for PP4x – Strip insulation 0.19 inches (4.8mm) from wire being careful not to damage the copper conductors (See assembly instruction 1S6505 for complete directions)

3. Terminate Contacts to individual wires by inserting contact into the recommended Anderson crimping tool and crimp. See SPEC Pak Data Sheet for additional information on contacts. Keeping all Powerpole and ground contacts on a similar plane while crimping will make installation into Powerpole Housings and SPEC Pak Holder easier. (See Figure 2)

NOTE: Crimping with non-APP recommended tools may produce high resistance or contact distortion resulting in improper seating of the contact in the Powerpole Housing. Use of other tools may also effect UL & CSA approval.

4. Slide SPEC Pak Plug Shell onto wires or cable with threaded rear end facing Sealing Gland. (See Figure 3)

5. Standard orientation for Powerpoles in SPEC Pak Plugs are Hood Down. (See Figure 4a) Standard orientation for Powerpoles in the SPEC Pak Receptacle are Hood Up. (See Figure 4b)

6. Install contacts into Powerpole Housings.

6a. Position Powerpole contacts as shown holding the Powerpole housings in the “hood up” position (See Figure 5a) and push contact and wire into Powerpole Housing so contact snaps into place. The contact will slip under the internal barrier and snap over the end of the internal retaining spring. (See Figure 5b) Tug on wire to assure the contact is fully inserted. Repeat until all wires and contacts have been firmly locked into their respective Powerpole Housings.

6b. Position PP4x contacts as shown holding the PP4x housing in the “Hood up” position (See Figures 6a & 6b) and insert into housing. Socket contacts should be inserted first to ease assembly followed by the pin contacts. A tactile snap will be felt when the contact is latched. Apply a slight tug to the wire to confirm latching.

NOTE: If the wires are rotated during insertion of the contacts so as to change the orientation of the contact seams to the housing the contacts will not snap in properly.

SPEC Pak Plug Explosion Diagram



Figure 1



Figure 2



Figure 3



Figure 4a

Figure 4b

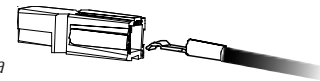


Figure 5a

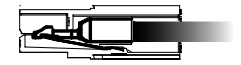


Figure 5b

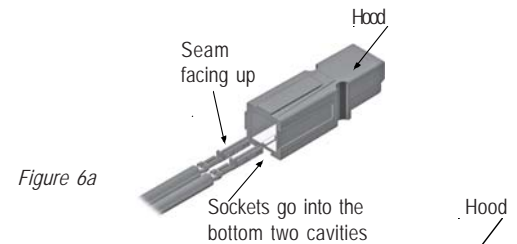


Figure 6a

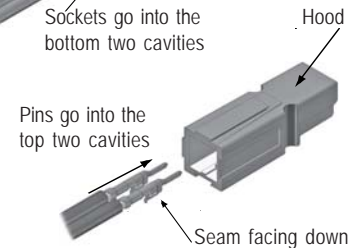


Figure 6b

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7. Position Holder with arrow on the front face of the holder pointing up. (See Figure 7a & 7b) Insert Powerpole Housings into Holder (positions 1 & 2 from the top and positions 3 & 4 from the bottom). Holder is marked with "Front".

8. Position APP Logos on Plug Shell on top and holder with the arrow pointing up (See Figure 8). Press Holder into Plug Shell until Holder snaps into place. Holder may be removed from the Plug Shell with a small flat screw driver. Insert screw driver beside holder latch and depress latch on one side (See Figure 9), then the other. Pushing the wire or cable from behind while depressing latches will help to remove the Holder. To reinsert the Holder repeat step 8.

9. Screw Cable Gland Body onto the back of the SPEC Pak Plug Shell. Tighten down on outer sealing gland nut to form a water tight seal on jacketed cable. Assembly is complete. (See Figure 10).

Torque requirements

- Cable Gland Body to plug housing: hand tighten until snug, tighten additional 1/8-1/4 turn with wrench
- Cable Gland Sealing Nut to cable: hand tighten until snug, tighten additional 1/2- 3/4 turn with wrench

NOTE: The wire protection products listed above have been approved for use with the SPEC Pak and will meet IP67 sealing requirements when used with the specified wire or cable. See SPEC Pak Selection Guide for more information. If other wire protection products are use, it is important to select the correct size sealing gland or adapter for the wire or cable being used to ensure proper sealing. SPEC Pak Plugs are designed to accommodate industry standard PG-16 sealing glands and adapters.



Figure 7a

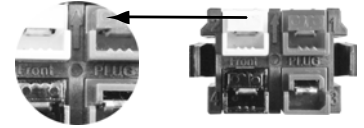


Figure 7b

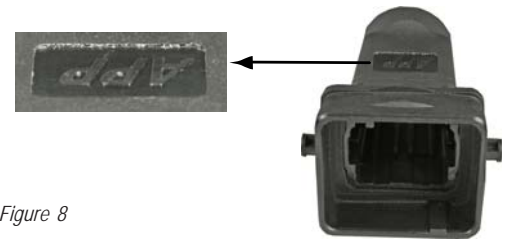


Figure 8



Figure 9



Figure 10