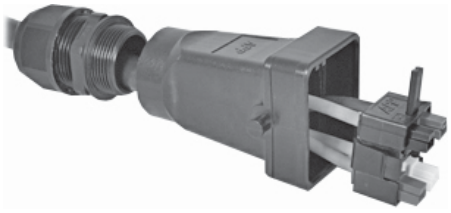
SPEC Pak Plug

Assembly Instructions

SPEC Pak Plug Kit (SK6-053B06) Components

Retention Pin | Powerpole Holder, Plug | Plug Shell, 6 Position

SPEC Pak Plug Explosion Diagram



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

1. Slide sealing gland onto wires or cable with PG21 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.

Figure 1

2. Cable and / or wire preparation

2a. Jacketed Cable – Strip approximately 2 inches (51 mm) of the outer jacket. Strip 5/16 inch (8 mm) of insulation from individual wires, being careful not to damage the copper conductors. Be sure to allow length for any future service, as required. (See Figure 2)

2b. Discrete Wire – Strip insulation 5/16 inch (8 mm) from the end of the wires to be terminated, being careful not to damage the copper conductors.

Figure 2

3. Terminate Powerpole 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 contacts on a similar plain while crimping will make installation into Powerpole Housings and SPEC Pak Holder easier. (See Figure 3)

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.

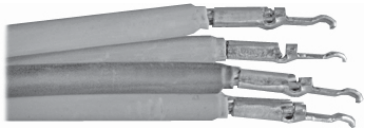


Figure 3

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

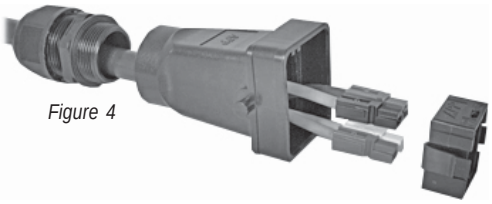


Figure 4

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-21 sealing glands and adapters.

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5. Install contacts into Powerpole Housing. Position contacts as shown. (See Figure 5a & 5b) 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. Repeat until all wires and contacts have been firmly locked into their respective Powerpole Housings. (See Figure 6)

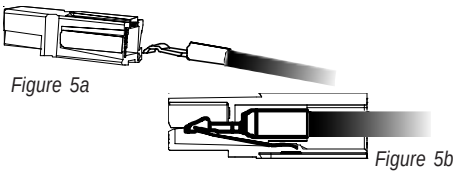

Figure 5a

Figure 5b

6. Position Holder so APP Logo is up. (See Figure 6) Insert Powerpole Housings into Holder from the rear. Holder is marked with "Front".

Figure 6

Note: To insert or remove a contact from a Powerpole Housing, use Anderson insertion / extraction Tool P/N: 111038G2. Place one of the forward prongs of the tool between the contact and spring. Using a rotary motion, continue rotation while pulling on the wire until the prong causes disengagement of the contact from the retention spring. Withdraw contact from the rear of the Powerpole Housing. (See Figure 7) Reinstall contact into correct Powerpole Housing per step 5 above.

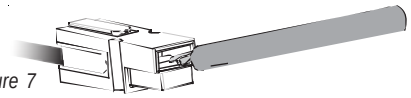

Figure 7

Standard orientation for Powerpoles in SPEC Pak Plugs are Hood Down. (See Figure 8a) Standard orientation for Powerpoles in the SPEC Pak Receptacle are Hood Up. (See Figure 8b)

Hood Down

Figure 8a

Figure 8b

Once all Powerpole Housing are inserted into Holder, insert Retention Pin into Holder. (See Figure 9) Continue to press Retention Pin into Holder until fully inserted. (See Figure 10)

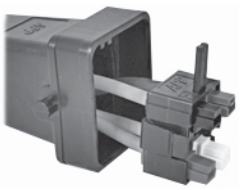

Figure 9

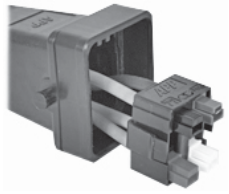

Figure 10

9. Position APP Logos on Plug Shell and Holder in up position. 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 11), 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 9.

Figure 11

10. 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 12).

Figure 12

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

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