

# CONNECTORS

## SPEC Pak® Series

Sealed Power For Environmental Connections



**IP68** | **UV Resistant** | **Touch Safe** | **Power, Signal & Ground** | **Highly Configurable**

|                                      |                                                                                                       | 3 Position<br>Mini PL           | 4 Position                              | 4 Position<br>Solar             | 6 Position  | Mid<br>Power <sup>[1]</sup> | High<br>Power | Extreme<br>Power |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------|---------------------------------|-------------|-----------------------------|---------------|------------------|
| Amps & Volts                         | Current Rating<br>UL 1977 (up to) <sup>[2]</sup><br>UL 6703A & EN 50521<br>CSA (up to) <sup>[3]</sup> | 22                              | 40                                      | 40                              | 45          | 80                          | 240           | 310              |
|                                      |                                                                                                       | 16                              | 26                                      | 26                              | 29          | 60                          | 130           | 230              |
|                                      | Voltage Rating (AC/DC)<br>UL 1977<br>UL 6703A & EN 50521<br>IEC 60644                                 | 600                             | 600                                     | 600                             | 600         | 600                         | 600           | 600              |
|                                      |                                                                                                       |                                 | 1000                                    | 1000                            |             |                             |               |                  |
|                                      | Temperature Range<br>UL 1977                                                                          | -20° to 105° C<br>-4° to 221° F | -40° to 105° C<br>-40° to 221° F        |                                 |             |                             |               |                  |
|                                      | UL 6703A                                                                                              |                                 |                                         | -35° to 65° C<br>-31° to 149° F |             |                             |               |                  |
|                                      | EN 50521                                                                                              |                                 |                                         | -40° to 75° C<br>-40° to 165° F |             |                             |               |                  |
|                                      |                                                                                                       |                                 |                                         |                                 |             |                             |               |                  |
| Circuits & Wire Size                 | Power Circuits (Max)                                                                                  | 3                               | 4                                       | 4                               | 6           | 4                           | 2, 3 or 6     | 2, 4, 6 or 9     |
|                                      | Auxiliary Circuits Available <sup>[4]</sup>                                                           | •                               | •                                       | •                               | •           | 8                           | 8             | •                |
|                                      | Wire Range                                                                                            |                                 |                                         |                                 |             |                             |               |                  |
|                                      | AWG                                                                                                   | 24 to 14                        | 24 to 10                                | 24 to 10                        | 24 to 10    | 24 to 6                     | 24 to 3/0     | 24 to 3/0        |
|                                      | mm²                                                                                                   | 0.50 to 2.1                     | 0.25 to 4.0                             | 0.25 to 4.0                     | 0.25 to 4.0 | 0.25 to 13.3                | 0.25 to 85.0  | 0.25 to 85.0     |
|                                      | Mating Cycles                                                                                         | 500                             | 1,500                                   | 1,500                           | 1,500       | 1,500                       | 1,500         | 1,500            |
| APP® Contact Technology              | PowerPod®<br>Pin & Socket                                                                             | Powerpole® Flat Wiping Contacts |                                         |                                 |             |                             |               |                  |
|                                      | APP® Auxiliary Technology                                                                             | Contacts                        | PPMX or PowerMod® Pin & Socket Contacts |                                 |             |                             |               |                  |
| Specifications &<br>Special Features | Environmental Seal                                                                                    | IP68 <sup>[5]</sup>             |                                         |                                 |             |                             |               |                  |
|                                      | Touch Safe per UL 1977                                                                                | •                               | •                                       | •                               | •           |                             |               |                  |
|                                      | Hot Plug per UL 1977                                                                                  |                                 | •                                       | •                               | •           | •                           | •             | •                |
|                                      | Flammability Rated per UL 94                                                                          | V0                              |                                         |                                 |             |                             |               |                  |
|                                      | UV Rating per UL 746C                                                                                 | F1                              |                                         |                                 |             |                             |               |                  |
|                                      | UL 6703A                                                                                              |                                 |                                         |                                 |             |                             |               |                  |
|                                      | TC200 Thermal Cycling                                                                                 |                                 |                                         | •                               |             |                             |               |                  |
|                                      | HF10 Humidity Cycling                                                                                 |                                 |                                         | •                               |             |                             |               |                  |
|                                      | -35C Impact test                                                                                      |                                 |                                         | •                               |             |                             |               |                  |
|                                      | Locking Feature per NEC 2008                                                                          |                                 |                                         | •                               |             |                             |               |                  |
|                                      | Vibration Test                                                                                        |                                 | •                                       | •                               | •           |                             |               |                  |
|                                      | Mechanical Shock Test                                                                                 |                                 | •                                       | •                               | •           |                             |               |                  |
|                                      | Crush Test                                                                                            |                                 |                                         |                                 |             |                             | •             | •                |
| Color Coding                         |                                                                                                       | •                               | •                                       | •                               | •           | •                           | •             |                  |
| Sequencing                           | •                                                                                                     | •                               | •                                       | •                               | •           | •                           | •             |                  |

[1] Mid Power data listed is preliminary. UL/CSA testing is scheduled to be in Summer 2012.

[2] Amp ratings are per contact. Derating is necessary when multiple contacts are used together.

[3] CSA rating is based on not exceeding 30°C rise over ambient.

[4] Auxiliary circuits can be added by substituting auxiliary circuits for power circuits.

[5] SPEC Pak® connectors have been tested at 6 feet (1.83 meters) for 30 minutes to obtain the IP68 rating.

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**APP**  
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|                                                                                                       |                        | 3 Position<br>Mini PL | 4 Position          | 4 Position<br>Solar | 6 Position               | Mid<br>Power | High<br>Power                                                                    | Extreme<br>Power                                     |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------|---------------------|---------------------|--------------------------|--------------|----------------------------------------------------------------------------------|------------------------------------------------------|
| Shell Kit Part Numbers<br>(See data sheets for contact information)<br>Powerpole® Housings & Contacts | Inline Receptacle      | SK1-019M03            | SK1-050B04          | PK1-050B04          | -                        | SK1-076C04   | SK1-A95H02<br>SK1-A95H03<br>SK1-A95H06<br>SK1-B95H02<br>SK1-B95H03<br>SK1-B95H06 | SK1-142E02<br>SK1-142E04<br>SK1-142E06<br>SK1-142E09 |
|                                                                                                       | Panel Mount Receptacle | -                     | SK2-050B04          | PK2-050B04          | SK2-053B06               | SK2-076C04   | SK2-095H02<br>SK2-095H03<br>SK2-095H06                                           | SK2-142E02<br>SK2-142E04<br>SK2-142E06<br>SK2-142E09 |
|                                                                                                       | Plug                   | SK6-019M03            | SK6-050B04          | PK6-050B04          | SK6-053B06               | SK6-076C04   | SK6-A95H02<br>SK6-A95H03<br>SK6-A95H06<br>SK6-B95H02<br>SK6-B95H03<br>SK6-B95H06 | SK6-142E02<br>SK6-142E04<br>SK6-142E06<br>SK6-142E09 |
|                                                                                                       | Right Angle Plug       | -                     | -                   | -                   | SK8-A53B06<br>SK8-B53B06 | -            | -                                                                                | -                                                    |
|                                                                                                       | Shell Size             | 19 mm                 | 50 mm               | 50 mm               | 53 mm                    | 76 mm        | 95 mm                                                                            | 142 mm                                               |
|                                                                                                       | PG Gland Size [6]      | [7]                   | 16                  | 16                  | 21 or 29                 | [8]          | 36 or 42                                                                         | 42                                                   |
|                                                                                                       | Shell Covers           |                       |                     |                     |                          |              |                                                                                  |                                                      |
|                                                                                                       | Receptacle Cover       | -                     | SK9-050<br>SK9R-050 | PK9-050<br>PK9R-050 | SK9-053                  | SK9-076      | SK9-095                                                                          | -                                                    |
|                                                                                                       | Plug Cover             | -                     | SK9P-050            | PK9P-050            | -                        | SK9P-076     | SK9P-095                                                                         | SK9P-142                                             |

[6] PG Glands are required with Inline Receptacle, Plug & Right Angle Plug.

[7] 3 Position Mini PL gland is required with Inline Receptacle & Plug.

[8] Mid Power gland is integrated into the inline receptacle & plug shells.

