Amphenol® SurLok™ Compression Lug with Plastic Housing using RADSOK® Technology

FOR POWER DISTRIBUTION APPLICATIONS
The SurLok™ non-environmental compression lug is a field installable, highly reliable alternative to common compression lugs. An industry standard U-Indent/Clamshell or 4-indenter crimp tool may be used to perform the termination on the wire, thus eliminating the need to purchase special torque tools.

The head of the pin locks into place once mated to the RADSOK® connector. The plastic housing snaps over the connector and acts as a protective cover. The plastic housing is available for all sizes. This secure connection ensures voltage and amperage levels will be maintained throughout the duration of the application.

The RADSOK® high amperage contact technology utilizes high tensile strength properties of the stamped and formed, high conductivity alloy grid to produce the low insertion force while maintaining large conductive surface area.

Features and benefits of Amphenol's SurLok over other compression lugs:

• High current rating, high ampacity in a smaller package
• High reliability; meets or exceeds the electrical performance of bolt-on compression lugs
• Easy field install - crimp with standard color-coded dies (Udie and 4 indenter). No torque wrenches required.
• Integral locking feature plus locking cap
• RADSOK® technology boosts the ampacity by 50% or more compared to mil-spec contacts. RADSOK® contacts provide the advantages of low insertion force and high cycle durability.
• RoHS compliant

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Ideal markets include Medical and Test Equipment, Process Control, Heavy Equipment and Rail. Any applications that use high current, frequently plugged & unplugged cables or a “plug and play” setup would be an ideal “fit” for the SurLok.

**Technical specifications of the Amphenol Plastic Surlok**

Engagement force: ~2 lbs. – 5 lbs. mating insertion and ~10 lbs. – 15 lbs. locking
Separation force: ~10 lbs. – 15 lbs.
Contact surfaces are silver plated on the pin and socket.
Wire crimp barrel is matte tin per industry standards.

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>RADSOK Size</th>
<th>Current Rating</th>
<th>SurLok Assembly Part Number</th>
<th>Lug Only Part Number</th>
<th>Conductor Max. Dia.</th>
<th>Crimp Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 AWG</td>
<td>3.6mm</td>
<td>70 Amps</td>
<td>PSL-368K</td>
<td>PSL-368</td>
<td>0.17 in.</td>
<td>Red 21</td>
</tr>
<tr>
<td>6 AWG</td>
<td>5.7mm</td>
<td>100 Amps</td>
<td>PSL-576K</td>
<td>PSL-576</td>
<td>0.21 in.</td>
<td>Blue 24</td>
</tr>
<tr>
<td>4 AWG</td>
<td>5.7mm</td>
<td>125 Amps</td>
<td>PSL-574K</td>
<td>PSL-574</td>
<td>0.27 in.</td>
<td>Gray 29</td>
</tr>
<tr>
<td>2 AWG</td>
<td>8.0mm</td>
<td>175 Amps</td>
<td>PSL-802K</td>
<td>PSL-802</td>
<td>0.30 in.</td>
<td>Brown 33</td>
</tr>
<tr>
<td>1 AWG</td>
<td>8.0mm</td>
<td>200 Amps</td>
<td>PSL-801K</td>
<td>PSL-801</td>
<td>0.35 in.</td>
<td>Green 37</td>
</tr>
<tr>
<td>1/0 AWG</td>
<td>10.3mm</td>
<td>250 Amps</td>
<td>PSL-10310K</td>
<td>PSL-10310</td>
<td>0.38 in.</td>
<td>Pink 42</td>
</tr>
<tr>
<td>2/0 AWG</td>
<td>10.3mm</td>
<td>300 Amps</td>
<td>PSL-10320K</td>
<td>PSL-10320</td>
<td>0.44 in.</td>
<td>Black 45</td>
</tr>
</tbody>
</table>

Notes: (1) Surlok Assembly contains the wire crimp lug, plus a two-piece dielectric clamshell housing. Housing is available in black color as standard. Consult Amphenol Industrial for alternate color.
(2) Lug only specifies the wire crimp RADSOK SurLok lug, less the plastic housings.

<table>
<thead>
<tr>
<th>Pin Dia.</th>
<th>Max. Current</th>
<th>Part Number</th>
<th>Thread (male)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6mm</td>
<td>70 Amps</td>
<td>PSLP-36</td>
<td>M3x0.5</td>
</tr>
<tr>
<td>5.7mm</td>
<td>125 Amps</td>
<td>PSLP-57</td>
<td>M5x0.8</td>
</tr>
<tr>
<td>8.0mm</td>
<td>200 Amps</td>
<td>PSLP-80</td>
<td>M8x1.25</td>
</tr>
<tr>
<td>10.3mm</td>
<td>300 Amps</td>
<td>PSLP-103</td>
<td>M10x1.5</td>
</tr>
</tbody>
</table>

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