

Product Data Sheet

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

No. 200-1

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 (U-die 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

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™.

For more information:
Amphenol Industrial Operations
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Web: www.amphenol-industrial.com



SurLok™ with Plastic Housing



4 Sizes, 7 Ampacities
(see table on back)



Industry Standard Color Coding

Technical specifications of the Amphenol® Plastic Surlok™:

UL listed under file UL1977

Engagement force: ~2 lbs. – 5 lbs. mating insertion and ~10 lbs. – 15 lbs. locking

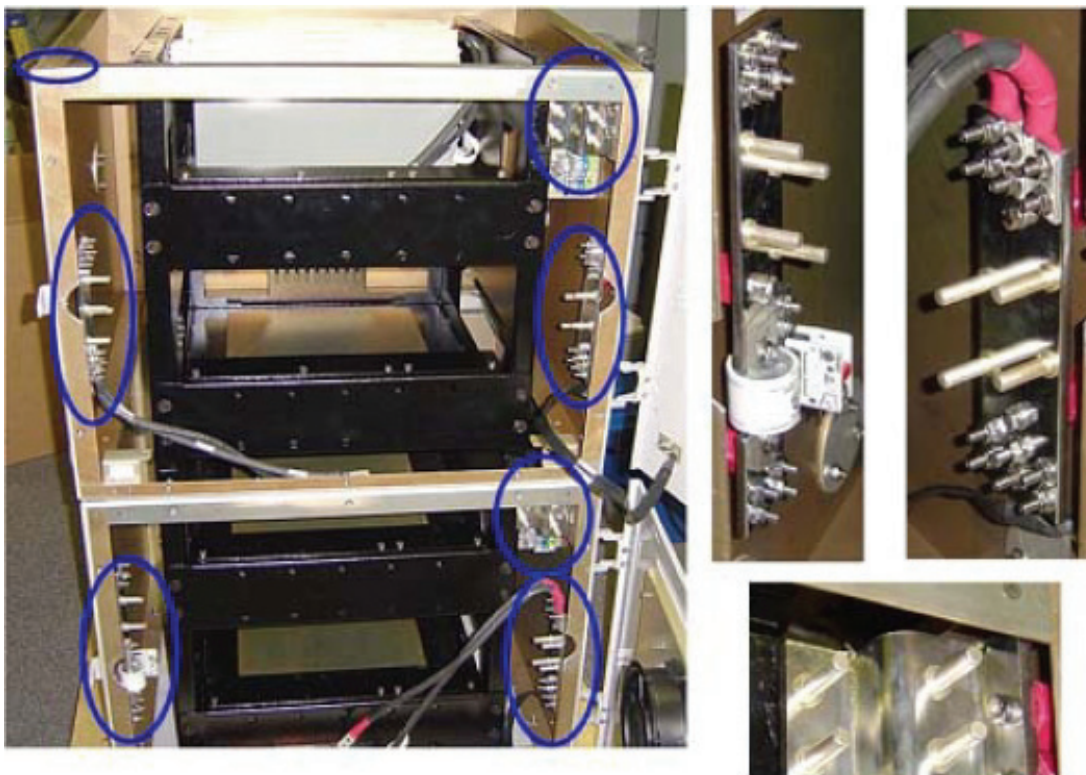
Separation force: ~10 lbs. – 15 lbs.

Contact surfaces are silver plated on the pin and socket. Wire crimp barrel is matte tin per industry standards.

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

| Pin Dia. | Max. Current | Part Number | Thread (male) |
|----------|--------------|-------------|---------------|
| 3.6mm | 70 Amps | PSLP-36 | M3x0.5 |
| 5.7mm | 125 Amps | PSLP-57 | M5x0.8 |
| 8.0mm | 200 Amps | PSLP-80 | M8x1.25 |
| 10.3mm | 300 Amps | PSLP-103 | M10x1.5 |

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 options.
 (2) Lug only specifies the wire crimp RADSOK® SurLok™ lug, less the plastic housings.



Chassis showing application of Plastic SurLok™

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