

Product Data Sheet

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

No. 200-2

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
Phone: 607-563-5011
Web: www.amphenol-industrial.com



SurLok™ with Plastic Housing



4 Sizes, 7 Ampacities
(see table on back)



Industry Standard Color Coding

Amphenol

Technical specifications of the Amphenol® Plastic Surlok™:

UL listed under file UL1977

Engagement force: ~2 lbs. – 5 lbs. (9N – 22N) mating insertion and ~10 lbs. – 15 lbs. (45N – 67N) locking

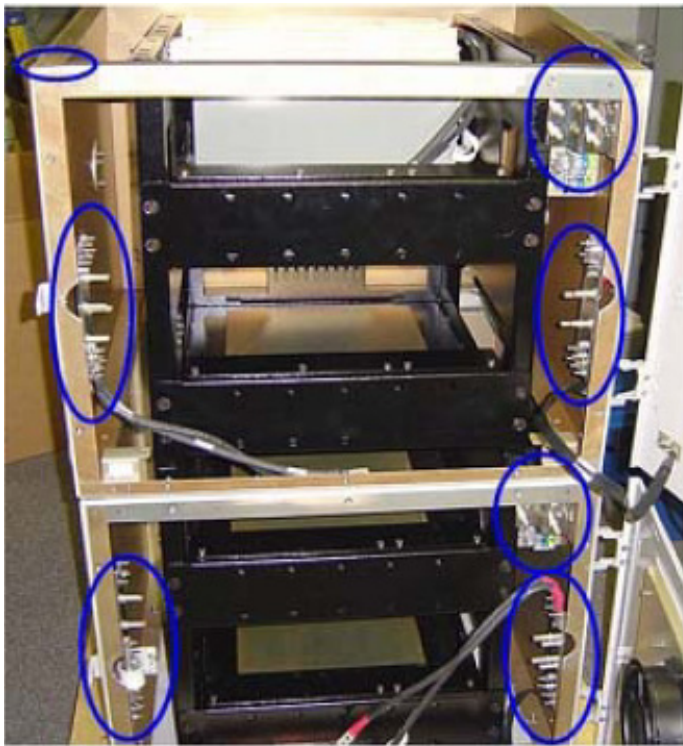
Separation force: ~10 lbs. – 15 lbs. (45N – 67N)

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	Conductor SurLok™ Assembly ⁽¹⁾ Part Number	Lug Only ⁽²⁾ Part Number	Max. Dia.		Crimp Code
AWG	mm ²					Inch	mm	
8	10	3.6mm	70 Amps	PSL-368K	PSL-368	0.17 in.	4.32	Red 21
6	16	5.7mm	100 Amps	PSL-576K	PSL-576	0.21 in.	5.33	Blue 24
4	25	5.7mm	125 Amps	PSL-574K	PSL-574	0.27 in.	6.85	Gray 29
2	35	8.0mm	175 Amps	PSL-802K	PSL-802	0.35 in.	8.89	Brown 33
1	50	8.0mm	200 Amps	PSL-801K	PSL-801	0.38 in.	9.65	Green 37
1/0	50	10.3mm	250 Amps	PSL-10310K	PSL-10310	0.44 in.	11.18	Pink 42
2/0	70	10.3mm	300 Amps	PSL-10320K	PSL-10320	0.50 in.	12.7	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™

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

AMPHENOL is a registered trademark of Amphenol Corporation.

©2008 Amphenol Corporation

Amphenol

Printed in U.S.A. 1/2008