



SurLok Plus™

The SurLok Plus™ compression lug is a field installable, highly reliable alternative to common compression lugs. Using industry standard crimp, screw, and busbar termination options, thus eliminating the need to purchase special torque tools.

Amphenol's SurLok Plus™ is an environmentally sealed version of our original SurLok™ but available in smaller sizes, and features a quick lock and press-to-release design. Incorporating the latest R4 RADSOK® Technology, SurLok Plus™ is a compact, quick mating, and robust product line.

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

The R4 version of the RADSOK® represents the culmination of three years of research and development in laser welding copper based alloys.

Features:

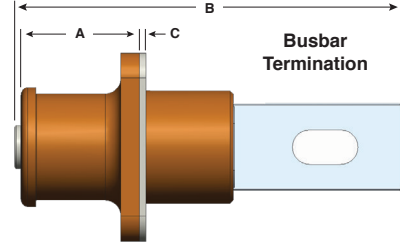
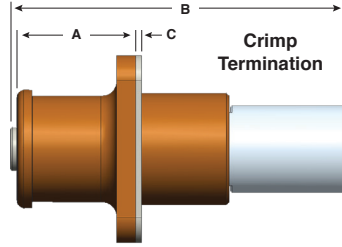
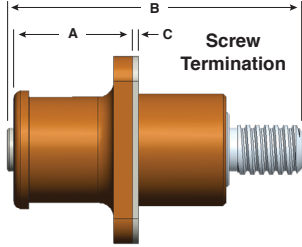
- R4 RADSOK® Technology
- IP67 rated
- Touch Proof
- Quick lock and press-to-release design
- "Keyway" design to prevent incorrect mating
- 360° rotating plug
- Various termination options (Threaded, Crimp, Busbar)
- Compact robust design



| Technical Data | | | |
|-------------------|---|--------------|----------------|
| Contact Size | 5.7mm (120A) 8.0mm (200A) 10.3mm (300A) | IP Rating | IP 67 |
| Current Rating | 120A~300A | Protection | Touch Proof |
| Operating Voltage | 1000V AC/DC | Flammability | UL 94-V0 |
| Operating Temp | -40°C to 125°C | Locking | Spring Locking |

The markets and applications for the SurLok Plus™ series include but are not limited to the following:

- EV/HEV
- BMS/Energy Storage
- Medical
- Rail Mass Transit
- Process Control/Automation
- Heavy Equipment

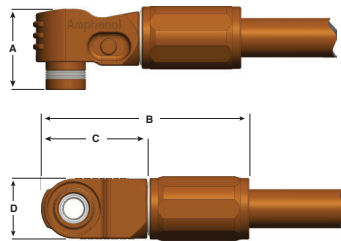


| Size | Screw Termination | | |
|--------|-------------------|------|---|
| | A | B | C |
| 5.7mm | 16 | 37.7 | 1 |
| 8.0mm | 19 | 46.2 | 1 |
| 10.3mm | 23 | 58.2 | 1 |

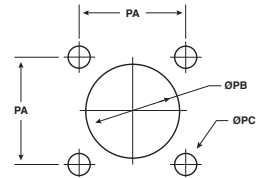
| Size | Crimp Termination | | |
|--------|-------------------|------|---|
| | A | B | C |
| 5.7mm | 16 | 40.7 | 1 |
| 8.0mm | 19 | 53.7 | 1 |
| 10.3mm | 23 | 64 | 1 |

| Size | Busbar Termination | | |
|--------|--------------------|------|---|
| | A | B | C |
| 5.7mm | 16 | 47.6 | 1 |
| 8.0mm | 19 | 62.2 | 1 |
| 10.3mm | 23 | 74.2 | 1 |

| Size | Plug Dimensions | | | |
|--------|-----------------|------|------|------|
| | A | B | C | D |
| 5.7mm | 22.6 | 58.8 | 30 | 18 |
| 8.0mm | 29 | 75.6 | 38.6 | 21.6 |
| 10.3mm | 37.9 | 83.9 | 38.5 | 27 |



| Size | Panel Cut Out Dimensions | | |
|--------|--------------------------|------|------------|
| | PA | PB | PC |
| 5.7mm | 18 | 14.4 | Ø4.2 or M4 |
| 8.0mm | 21 | 18.4 | Ø4.2 or M4 |
| 10.3mm | 22 | 21.1 | Ø4.2 or M4 |



| PLUG | Product Series: SurLok Plus™ | Plug | RADSOK® Size | | Applicable Cable Size | | Backshells | Sealing | Connector Color | | | |
|------|------------------------------|------|--------------|--------|-----------------------|-------------------|------------|---------------------------------------|-----------------|------------------------------------|---|--------|
| | SLP | P | A | 5.7mm | 16 | 16mm² : 100 Amps | B | W/ Backshells | S | IP67 Sealed (W/ Grommet & O-Rings) | O | Orange |
| | | | | 25 | 25mm² : 120 Amps | | | | | | | |
| | | | B | 8.0mm | 35 | 35mm² : 150 Amps | N | W/O Backshells (For Overmolding Only) | N | Non-Sealed (W/O Grommet & O-Rings) | R | Red |
| | | | | 50 | 50mm² : 200 Amps | | | | | | | |
| | | | C | 10.3mm | 95 | 95mm² : 300 Amps | | | | | | |
| | | | D | 12mm | 12 | 120mm² : 400 Amps | | | | | | |
| | | | E | 14mm | 18 | 185mm² : 500 Amps | | | | | | |

| RECEPTACLE | Product Series: SurLok Plus™ | Receptacle | RADSOK® Size | | *Applicable Cable Size | Termination Style | Panel Mount | Sealing | Connector Color | | | |
|------------|------------------------------|------------|--------------|--------|------------------------|-------------------|-------------|---------------|-----------------|------------------------------------|---|------------------------------------|
| | SLP | R | A | 5.7mm | 16 | 16mm² : 100 Amps | B | Busbar | S | IP67 Sealed (W/ Grommet & O-Rings) | O | Orange |
| | | | | 25 | 25mm² : 120 Amps | | | | | | | |
| | | | B | 8.0mm | 35 | 35mm² : 150 Amps | T | Threaded Post | P | Panel Mount W/ Flange | R | Red |
| | | | | 50 | 50mm² : 200 Amps | | | | | | | |
| | | | C | 10.3mm | 95 | 95mm² : 300 Amps | | | | | | |
| | | | D | 12mm | 12 | 120mm² : 400 Amps | C | Crimp | N | W/O Flange | N | Non-Sealed (W/O Grommet & O-Rings) |
| | | | E | 14mm | 18 | 185mm² : 500 Amps | | | | | | |

*Applicable cable size is only for crimping termination

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