



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:

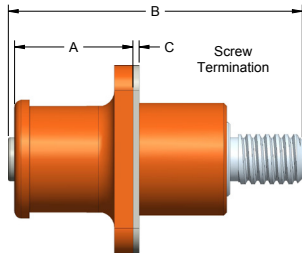
- R4 RADSOK® Technology
- IP67 rated
- Touch Proof
- Quick lock and press-to-release design
- "Keyway" design to prevent incorrect mating
- 360° rotating plug
- Various termination options (Threaded, Crimp, Busbar)
- Compact robust design



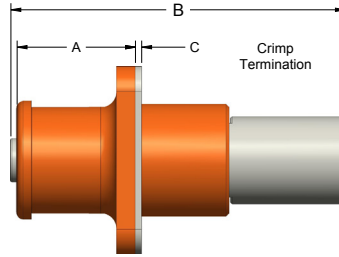
| Technical Data | | | |
|--------------------------|---|---------------------|----------------|
| Contact Size | 5.7mm (120A) 8.0mm (200A) 10.3mm (300A) | IP Rating | IP 67 |
| Current Rating | 120A~300A | Protection | Touch Proof |
| Operating Voltage | 1000V AC/DC | Flammability | UL 94-V0 |
| Operating 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:

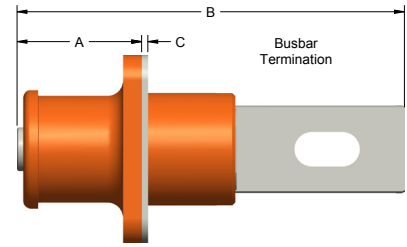
- EV/HEV
- BMS/Energy Storage
- Medical
- Rail Mass Transit
- Process Control/Automation
- Heavy Equipment



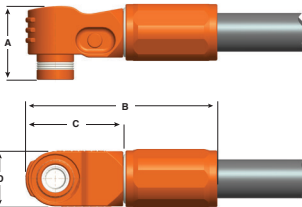
| Size | Screw Termination | | |
|--------|-------------------|------|-----|
| | A | B | C |
| 5.7mm | 16 | 37.7 | 1 |
| 8.0mm | 19 | 46.2 | 1 |
| 10.3mm | 25.8 | 55.9 | 0.3 |



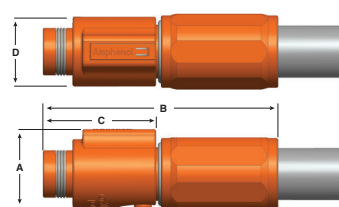
| Size | Crimp Termination | | |
|--------|-------------------|------|-----|
| | A | B | C |
| 5.7mm | 16 | 40.7 | 1 |
| 8.0mm | 19 | 53.7 | 1 |
| 10.3mm | 25.8 | 69.2 | 0.3 |



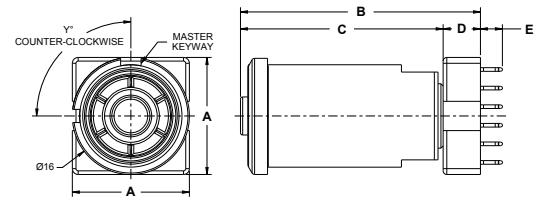
| Size | Busbar Termination | | |
|--------|--------------------|------|-----|
| | A | B | C |
| 5.7mm | 16 | 47.6 | 1 |
| 8.0mm | 19 | 62.2 | 1 |
| 10.3mm | 43 | 68.8 | 0.3 |



| 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 | 40.5 | 88.5 | 42.5 | 30.3 |



| Size | Plug Dimensions | | | |
|-------|-----------------|------|------|------|
| | A | B | C | D |
| 8.0mm | 24.6 | 72.4 | 34.8 | 21.4 |



| Size | Press-Fit Termination | | | | |
|-------|-----------------------|------|------|-----|-------|
| | A | B | C | D | E |
| 5.7mm | 16 | 32.8 | 27.7 | 5.1 | 3±0.3 |

| Product Series: SurLok Plus™ | Plug | | RADSOK® Size | | Applicable Cable Size | | Backshells | | Sealing | | Connector Color | | Keyway (Omit for no Keyway) | | EMI (Omit for no EMI) | | HVIL (Omit for no HVIL) | |
|---------------------------------|------|------------------|------------------------|--------|-----------------------|-------------------|------------------|---|---------------|------------|--|-----|-----------------------------------|-----|-----------------------------|---|-------------------------------|---|
| | PLUG | P | Right Angle Plug | A | 5.7mm | 16 | 16mm² : 100 Amps | B | W/ Backshells | S | IP67 Sealed (W/ Grommet & O-Rings) | O | Orange | 0 | 90° | E | EMI | H |
| 25 | | | | | 25mm² : 120 Amps | | | | | | | | | | | | | |
| B | | | | 8.0mm | 35 | 35mm² : 150 Amps | | | | | | | | | | | | |
| | | | | 50 | 50mm² : 200 Amps | | | | | | | | | | | | | |
| IP | | Straight Plug | C | 10.3mm | 70 | 70mm² : 300 Amps | N | W/O Backshells (For Overmolding Only) | N | Non-Sealed | R | Red | 2 | 60° | | | | |
| | | | | 85 | 85mm² : 350 Amps | | | | | | | | | | | | | |
| | | | D | 12mm | 12 | 120mm² : 400 Amps | | | | | | | | | | | | |
| | | | | 14mm | 18 | 185mm² : 500 Amps | | | | | | | | | | | | |

| Product Series: SurLok Plus™ | Receptacle | | RADSOK® Size | | *Applicable Cable Size | | Termination Style | | Panel Mount | | Sealing | | Connector Color | | Keyway (Omit for no Keyway) | | EMI (Omit for no EMI) | | HVIL (Omit for no HVIL) | | | |
|---------------------------------|------------|---|-------------------------------|------------------------------|---------------------------|-------------------|----------------------|------------------|----------------|-------|--------------------------------|---------------|--|------------|-----------------------------------|-----|-----------------------------|---|-------------------------------|---|------|-----|
| | RECEPTACLE | R | Receptacle (W/O Keyway) | A | 5.7mm | 16 | 16mm² : 100 Amps | B | Busbar | P | Panel Mount W/ Flange | S | IP67 Sealed (W/ Grommet & O-Rings) | O | Orange | 0 | 90° | E | EMI | H | HVIL | |
| 25 | | | | | 25mm² : 120 Amps | | | | | | | | | | | | | | | | | |
| B | | | | 8.0mm | 35 | 35mm² : 150 Amps | | | | | | | | | | | | | | | | |
| | | | | 50 | 50mm² : 200 Amps | | | | | | | | | | | | | | | | | |
| IR | | | | Receptacle (W/ Keyway) | C | 10.3mm | 70 | 70mm² : 300 Amps | C | Crimp | N | W/O Flange | N | Non-Sealed | R | Red | 2 | | | | | 60° |
| | | | | | | 85 | 85mm² : 350 Amps | | | | | | | | | | | | | | | |
| | | D | 12mm | | 12 | 120mm² : 400 Amps | | | | | | | | | | | | | | | | |
| | | | 14mm | | 18 | 185mm² : 500 Amps | | | | | | | | | | | | | | | | |

*Applicable cable size is only for crimping termination

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 of 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.

For further information on your individual application requirements, contact: Amphenol Corporation

North America:
Amphenol Industrial Operations
180 N. Freeport Drive, Plant 4
Nogales, AZ 85621
Tel: (888) 364-9011
Fax: (520) 285-5134

Europe:
Amphenol Industrial Operations Europe
Via Barbaiana 5
1-20020 Lainate (MI) Italy
Tel: +39 02 93254.204
Fax: +39 02 93254.444

Middle East:
Amphenol Middle East Enterprises FZE
Office C-37 PO Box 21107
Ajman Free Zone, UAE
Tel: +9 716-7422494
Fax: +9 716-7422941

Asia:
Amphenol Technology (Zhuhai) Co., Ltd.
No. 63 Xin Han Road, San Zao Town
Jin Wan District, Zhuhai City, China 519040
Tel: +86 756-3989760
Fax: +86 756-3989768

Email: tech@amphenol-aio.com

Email: info@amphenol-aio.com

Email: jhussain@amphenol-industrial.com

Email: enquiry@amphenol-aio.com

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