



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:

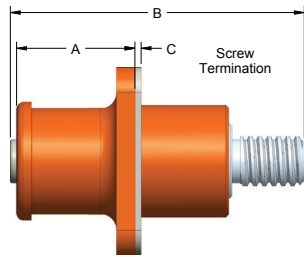
- R4 RADSOK® Technology
- IP67 rated
- Touch Proof
- Quick lock and press-to-release design
- "Keyway" design to prevent incorrect mating
- 360° rotating plug
- Various termination options (Threaded, Crimp, Busbar)
- Compact robust design



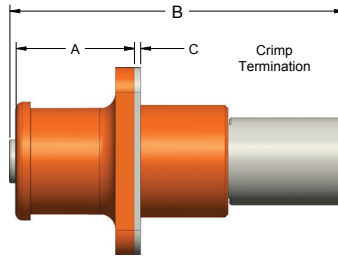
Technical Data			
Contact Size	5.7mm (120A) 8.0mm (200A) 10.3mm (300A)	IP Rating	IP 67
Current Rating	120A~300A	Protection	Touch Proof
Operating Voltage	1000V AC/DC	Flammability	UL 94-V0
Operating Temp	-40°C to 125°C	Locking	Spring Locking

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

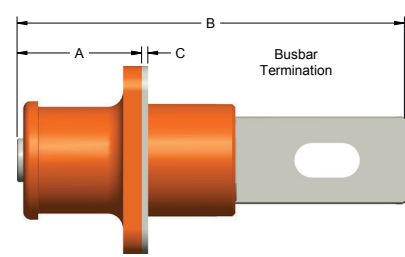
- EV/HEV
- BMS/Energy Storage
- Medical
- Rail Mass Transit
- Process Control/Automation
- Heavy Equipment



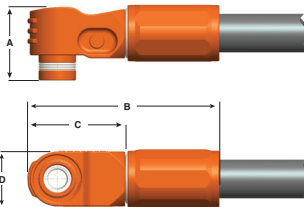
Size	Screw Termination		
	A	B	C
5.7mm	16	37.7	1
8.0mm	19	46.2	1
10.3mm	23	58.2	1



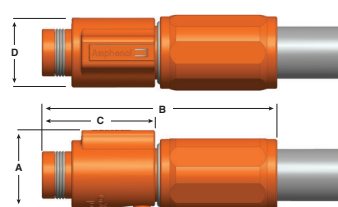
Size	Crimp Termination		
	A	B	C
5.7mm	16	40.7	1
8.0mm	19	53.7	1
10.3mm	23	64	1



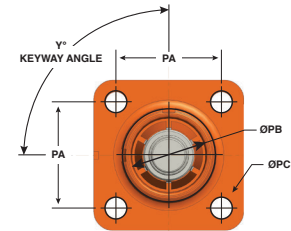
Size	Busbar Termination		
	A	B	C
5.7mm	16	47.6	1
8.0mm	19	62.2	1
10.3mm	23	74.2	1



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



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

Product Series: SurLok Plus™		Plug		RADSOK® Size		Applicable Cable Size		Backshells		Sealing		Connector Color		Keyway (Omit for no Keyway)	
PLUG	SLP	RP	Right Angle Plug	A	5.7mm	16	16mm² : 100 Amps	B	W/ Backshells	S	IP67 Sealed (W/ Grommet & O-Rings)	O	Orange	0	90°
						25	25mm² : 120 Amps								
				B	8.0mm	35	35mm² : 150 Amps								
						50	50mm² : 200 Amps								
	IP	Inline Plug	C	10.3mm	85	85mm² : 300 Amps	N	W/O Backshells (For Overmolding Only)	N	Non-Sealed	R	Red	1	180°	
			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		Keyway (Omit for no Keyway)	
	SLP	R	Receptacle	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°
						25	25mm² : 120 Amps											
				B	8.0mm	35	35mm² : 150 Amps		T	Threaded Post					B	Black		
						50	50mm² : 200 Amps											
	IR	Inline Receptacle	C	10.3mm	85	85mm² : 300 Amps		C	Crimp	N	W/O Flange	N	Non-Sealed	R	Red	1	180°	
			D	12mm	12	120mm² : 400 Amps												
			E	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.

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