



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

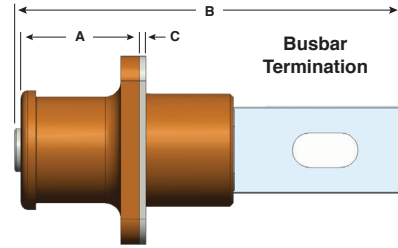
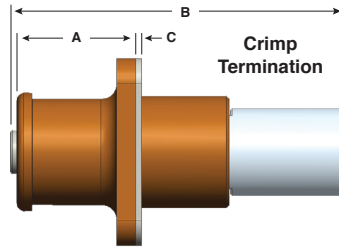
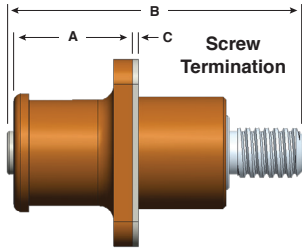
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Technical Data			
Contact Size	5.7mm (120A) 8.0mm (200A) 10.3mm (300A)	IP Rating	IP 67
Current Rating	120A~300A	Protection	Touch Proof
Operating Voltage	1000V AC/DC	Flammability	UL 94-V0
Operating Temp	-40°C to 125°C	Locking	Spring Locking

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

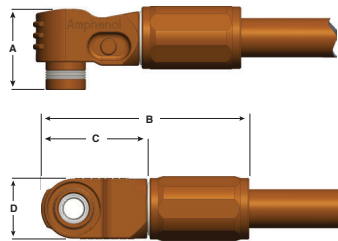


Size	Screw Termination		
	A	B	C
5.7mm	16	37.7	1
8.0mm	19	46.2	1
10.3mm	23	58.2	1

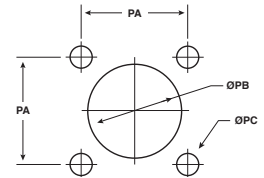
Size	Crimp Termination		
	A	B	C
5.7mm	16	40.7	1
8.0mm	19	53.7	1
10.3mm	23	64	1

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



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

*Applicable cable size is only for crimping termination

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

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