



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:

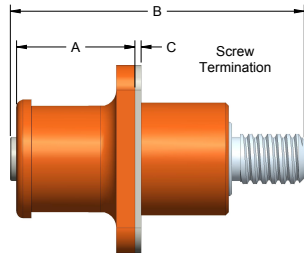
- R4 RADSOK® Technology
- IP67 rated
- Touch Proof
- Quick lock and press-to-release design
- "Keyway" design to prevent incorrect mating
- 360° rotating plug
- Various termination options (Threaded, Crimp, Busbar)
- Compact robust design



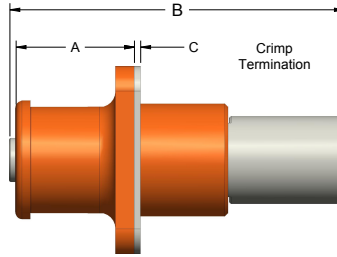
Technical Data			
Contact Size	5.7mm (120A) 8.0mm (200A) 10.3mm (300A)	IP Rating	IP 67
Current Rating	120A~300A	Protection	Touch Proof
Operating Voltage	1000V AC/DC	Flammability	UL 94-V0
Operating Temp	-40°C to 125°C	Locking	Spring Locking

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

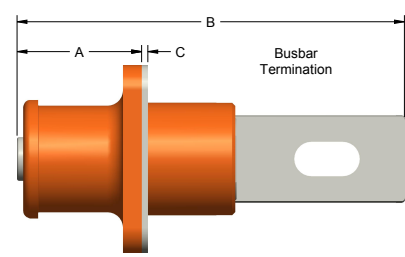
- EV/HEV
- BMS/Energy Storage
- Medical
- Rail Mass Transit
- Process Control/Automation
- Heavy Equipment



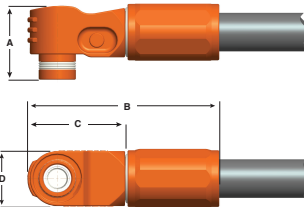
Size	Screw Termination		
	A	B	C
5.7mm	16	37.7	1
8.0mm	19	46.2	1
10.3mm	25.8	55.9	0.3



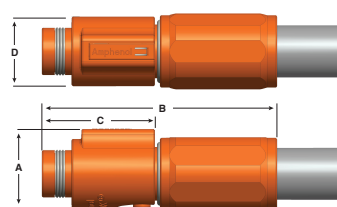
Size	Crimp Termination		
	A	B	C
5.7mm	16	40.7	1
8.0mm	19	53.7	1
10.3mm	25.8	69.2	0.3



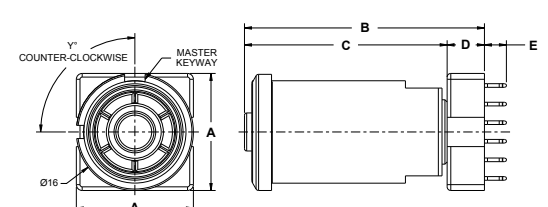
Size	Busbar Termination		
	A	B	C
5.7mm	16	47.6	1
8.0mm	19	62.2	1
10.3mm	43	68.8	0.3



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

PLUG	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)		
	SLP	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	HVIL				
						25	25mm² : 120 Amps							1	180°								
						35	35mm² : 150 Amps							2	270° (EMI and HVIL Version Only)								
				IP	Straight Plug	B	8.0mm	40	40mm² : 200 Amps	N	W/O Backshells (For Overmolding Only)	N	Non-Sealed	R	Red	3	60°						
								50	50mm² : 200 Amps							4	120°						
		70	70mm² : 300 Amps					5	150°														
		C	10.3mm			85	85mm² : 350 Amps	N	W/O Backshells (For Overmolding Only)	N	Non-Sealed	R	Red	6	60°								
						12	120mm² : 400 Amps							7	120°								
		D	12mm	12	120mm² : 400 Amps	N	W/O Backshells (For Overmolding Only)	N	Non-Sealed	R	Red	8	120°										
18				185mm² : 500 Amps	9							150°											
RECEPTACLE <th colspan="3">Product Series: SurLok Plus™</th> <th colspan="2">Receptacle</th> <th colspan="2">RADSOK® Size</th> <th colspan="2">*Applicable Cable Size</th> <th colspan="2">Termination Style</th> <th colspan="2">Panel Mount</th> <th colspan="2">Sealing</th> <th colspan="2">Connector Color</th> <th colspan="2">Keyway (Omit for no Keyway)</th> <th colspan="2">EMI (Omit for no EMI)</th> <th colspan="2">HVIL (Omit for no HVIL)</th>	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)	
	SLP	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	E	EMI	H	HVIL				
						25	25mm² : 120 Amps													1	180°		
						35	35mm² : 150 Amps													2	270° (EMI and HVIL Version Only)		
				IR	Receptacle (W/ Keyway)	B	8.0mm	40	40mm² : 200 Amps	T	Threaded Post	N	W/O Flange	N	Non-Sealed	R	Red	3	60°				
								50	50mm² : 200 Amps									4	120°				
		70	70mm² : 300 Amps					5	150°														
		C	10.3mm			85	85mm² : 350 Amps	C	Crimp	N	W/O Flange	N	Non-Sealed	R	Red	6	60°						
						12	120mm² : 400 Amps									7	120°						
		D	12mm	12	120mm² : 400 Amps	C	Crimp	N	W/O Flange	N	Non-Sealed	R	Red	8	120°								
18				185mm² : 500 Amps	9									150°									

*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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