

Amphenol Industrial



ENERGY STORAGE



HEAVY EQUIPMENT



ELECTRIC VEHICLES



SERVER/DATACOM

SURLOK® PLUS INLINE TYPE

5.7MM and 8.0MM

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. Adding the new type of SurLok Plus™ called IN-LINE 5.7mm and 8.0mm, especially for high voltage interconnections, it offers better separating point for safety and fixes the installation issue when in tough conditions. For example, for EV/HEV where existing equipment such PDU, electric motor comes with cables integrated therefore an in-line interconnection could be worked on that.

The IN-LINE version is using the standard 5.7mm/8.0mm straight plug and new receptacle. Only 2 keyways: 90° and 120° are available for IN-LINE version.

Features and benefits

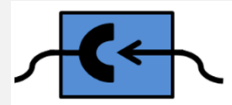
- R4 RADSOK® Technology
- IP67 rating
- Touch Proof
- Quick lock and press-to-release design
- Flammability: UL 94 V-0
- Wide amperage range: 100A~200A
- RoHS compliant
- 2 keyways: 90° and 120°
- Cable to cable connect
- Voltage 1000V
- Compact robust design
- UL and TUV certification
- Operating temperature:
- Durability:100 mating cycles



1000 VDC

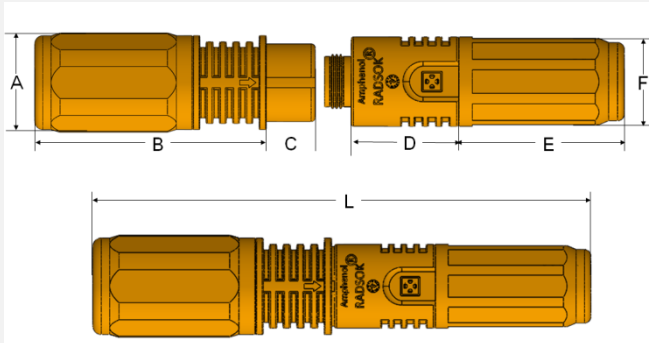


16-50 MM²



Cable - Cable

Product Dimensions



Size	Inline Type						
	A	B	C	D	E	F	L
5.7mm	20	54.3	8.8	24	32.5	20	112
8.0mm	24.3	56.7	12	25.6	36	23.5	119

How to order

Product series	Type		RADSOK Size		Cable Size		Backshells		Sealing		Color		Keyway	
SLP	IP	Straight Plug	A	5.7mm	16	16mm ²	B	W/ Backshells	S	IP67	O	Orange	0	90°
					25	25mm ²								
			B	8.0mm	35	35mm ²					50	50mm ²		
	CR	Inline Receptacle	A	5.7mm	16	16mm ²			N	Non-Sealed	B	Black	3	120°
					25	25mm ²								
			B	8.0mm	35	35mm ²					50	50mm ²		

Note: Straight Plug's grommet and cap can't be used the Inline Receptacle, please don't mix them.

Electrical Specification

Item	Description	RADSOK Size	
		5.7mm	8.0mm
1	Operating Voltage	1000V	
2	Max Current Rating	120A max	200A max
3	Operating Temperature	-40°C~105°C	
4	Protection Class	IP67 (Mated)	
5	Contact resistance	0.5mΩ Max	

