Amphenol®







SurLok Plus™ Series

Company Profile



Endicott, NY

Amphenol Industrial Operations

Amphenol Industrial Operations, headquartered in a 30,000 square foot facility in Endicott, N.Y., provides a full range of high reliability power/signal connectors and interconnection systems specifically for the industrial markets including rail/mass transit, process control, automotive manufacturing, heavy equipment, wireless base stations and petrochemical/power generation.

Products include ruggedized-for-industry cylindrical, rectangular, fiber optic, signal and power, RADSOK power and power-to-board solutions, cable and harness assemblies, as well as industrialized versions of Amphenol's MIL-DTL-5015 cylindrical, MIL-DTL-26482 miniature cylindrical and GT reverse bayonet cylindrical connectors. Amphenol Industrial Operations employs more than 1,400 people globally and is ISO9001, TS96949 and MIL-STD-790 certified.



Amphenol Technology (Zhuhai) Co., Ltd

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets. Included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Energy Storage. Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 276,000 ft² and is equipped with CNC, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density, medium to high voltage electrical properties, and harsh environment applications.

With industry leading engineering, design and manufacturing expertise, Amphenol Technology(Zhuhai) Co., Ltd. has earned more than 60 utility patents on its innovative interconnects. Many of the products produced have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and IATF 16949.

Overview



Table of Contents

What is SurLok Plus™ ? 4

Markets 4

Features and Benefits 5

Technical Information 5

1000V Product Dimensions – Receptacle 6

1000V Ordering information – Receptacle 6

1000V Product Dimensions – Plug 7

1000V Ordering Information – Plug 7

1000V EMI Product Dimensions 8

1000V EMI Ordering Information 8

1500V EMI Product Dimensions 9

1500V EMI Ordering Information 9

1500V Product Dimensions 10

1500V Ordering Information 10

Layout Dimensions 11

Optional Accessories 11

Keyway Reference 14

Tools 16

Patents 17

Customized Cable Assemblies 17

What is 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.

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.

Markets

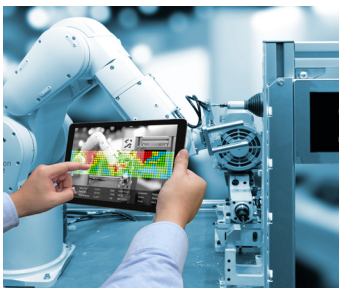
The markets and applications for the SurLok Plus™ Series include but are not limited to the following:



Energy Storage



EV/HEV*



Process Control/Automation



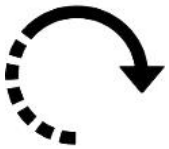
Heavy Equipment

*Note: 1500V SurLok Plus™ option only

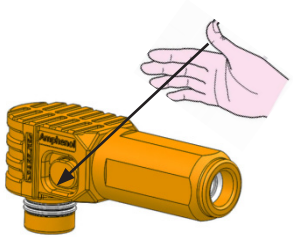
Features and Benefits

Keyway	Multiple keyways
Lock	Quick lock and press-to-release design
Plug	360°rotating plug optional
Receptacle	Various termination options (Threaded, Crimp, Busbar)
Voltage	1000V / 1500V optional
Protection	Touch Proof
Design	Compact robust design

- The connector's design incorporates an integral latching system that ensures a definitive electrical and mechanical connection.
- Connector housings are manufactured with a thermoplastic material that is not only durable, but also with excellent dielectric, mechanical properties and meet environmentally RoHS compliant.
- Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.
- UL1977/4128 and TUV 2PfG2740 certified



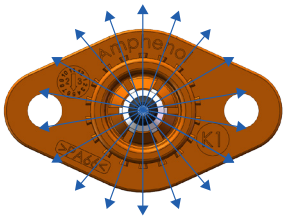
Rotation



Quick lock and press-to-release design



1000/1500 VDC

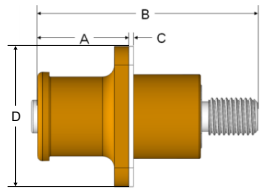
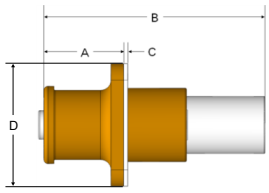
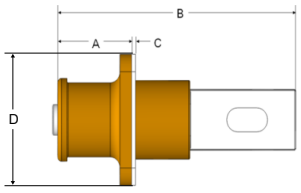
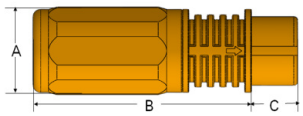


Multi-Directional Mating Positions

Technical Information

Description	RADSOK® Size						
	3.6mm	5.7mm	8.0mm	8.0mm EMI	10.3mm	12.0mm	14mm EMI
Current Rating	50A~70A	100A~120A	120A~250A	150A~250A	250A~300A	300A~360A	300A~500A
Operating Temperature	-40°C~125°C (1500V DC)	-40°C~105°C (1000V DC)	-40°C~105°C (1000V DC)	-40°C~125°C (1000V DC)	-40°C~105°C (1000V DC)	-40°C~125°C (1500V DC)	-40°C~140°C (1500V DC)
		-40°C~125°C (1500V DC)	-40°C~125°C (1500V DC)		-40°C~125°C (1500V DC)		
IP Sealing(Mated)	IP67/ IP6K9K (1500V DC)	IP67 (1000V DC)	IP67 (1000V DC)	IP67	IP67 (1000V DC)	IP67/IP6K9K	IP67/IP6K9K
		IP67/IP6K9K (1500V DC)	IP67/IP6K9K (1500V DC)		IP67/IP6K9K (1500V DC)		
Flammability	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Locking	Spring Locking	Spring Locking	Spring Locking	Secondary Lock	Spring Locking	Spring Locking	CPA
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMI Shielding	No	No	No	Yes	No	No	Optional
HVIL Function	No	No	No	Yes	No	No	Optional
Durability	≥100 cycles	≥100 cycles	≥100 cycles	≥100 cycles	≥100 cycles	≥100 cycles	≥100 cycles
IPXXB	Yes	Yes	Yes	Yes	Yes	Yes	Yes

1000V DC Product Dimensions - Receptacle

Item	Screw Termination				Crimp Termination				Busbar Termination				Inline Crimp Termination		
Size															
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C
5.7mm	16.5	36.7	1.0	27	16.5	40.7	1.0	27	16.5	46.7	1.0	27	20	53.7	8.8
8.0mm	19.0	46.2	1.0	30	19.0	52.7	1.0	30	19.0	61.2	1.0	30	24.3	56.7	12
10.3mm	25.8	55.5	0.3	35	25.8	50mm²: 65.8 70mm²: 68.8 85mm²: 71.8 95mm²: 71.8	0.3	35	25.8	68.8	0.3	35	/	/	/

Note: All dimensions for reference only

Ordering Information - 1000V DC Receptacle

Product Series	Type		RADSOK® Size		Termination Style		Panel Mount		Sealing		Color		Keyway****	
SLP	R	Receptacle W/O Keyway	A	5.7mm 120A	B	Busbar	P	W/ Flange	S	IP67	O	Orange		NO KEYWAY
					T	Threaded							0	90°
					16C	16mm² Crimp (100A max.)								
					25C	25mm² Crimp (120A max.)								
			B	8.0mm 200A	B	Busbar								
					T	Threaded								
					25C	25mm² Crimp (120A max.)								
					35C	35mm² Crimp (150A max.)								
	IR	Receptacle W/ Keyway			50C	50mm² Crimp (200A max.)	N	W/O Flange**			B	Black	1	180°
			C	10.3mm 300A	B	Busbar								
					T	Threaded							2	60°
					50C	50mm² Crimp (200A max.)								
					70C	70mm² Crimp (250A max.)								
					85C	85mm² & 95mm² (300A max.)								
	CR	*Inline Receptacle	A	5.7mm 120A	16	16mm² (100A max.)	B	W/ Back shells***	N	Non-Sealed	R	Red	3	120°
					25	25mm² (120A max.)								
			B	8.0mm 200A	25	25mm² (120A max.)							4	150°
					35	35mm² (150A max.)								
					50	50mm² (200A max.)								

*Inline receptacle, 90° and 120° keyways only ** Not available for 10.3mm ***Only available for inline type **** 10.3mm requires Keyway selection

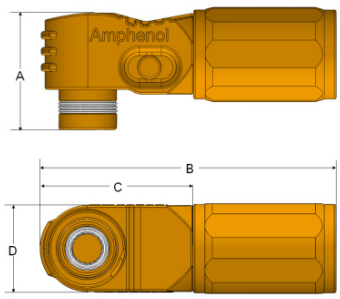
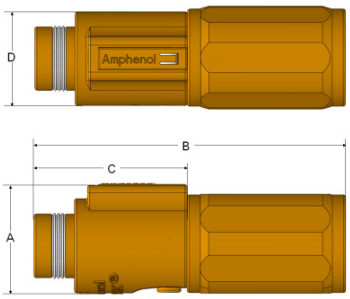
Example:

1 Product Series	2 Type	3 RADSOK® Size	4 Cable Size	5 Back shells	6 Sealing	7 Color	8 Keyway
SLP	IR	A	25	B	S	O	3
SLP	CR	B	50	B	N	B	0

SLPIRA25BSO3: 5.7mm SurLok Plus™ Receptacle without shielding and no HVIL, orange, 25mm² cable crimp, waterproof: sealed, keyway: 120°

SLPCRB50BNB0: 8.0mm SurLok Plus™ Inline receptacle without shielding and no HVIL, black, 50mm² cable crimp, waterproof: non-sealed, keyway: 90°

1000V DC Product Dimensions - Plug

Item	Right Angle Plug				Straight Plug			
Size								
	A	B	C	D	A	B	C	D
5.7mm	22.6	55.1	30	18	22.5	63	30.5	20
8.0mm	29	74.5	38.4	21.6	24.45	72.4	34.8	21.4
10.3mm	41.2	83.5	42.5	28	/	/	/	/

Note: All dimensions for reference only

Ordering Information - 1000V DC Plug

Product Series	Type		RADSOK® Size		Cable Size		Back Shells		Sealing		Color		Keyway****	
SLP	P	Right Angle 90°	A	5.7mm 120A	16	16mm² (100A max.)	B	W/ Back Shells	S	Sealed	O	Orange		NO KEYWAY
					25	25mm² (120A max.)							0	90°
			B	8.0mm 200A	25	25mm² (120A max.)								
					35	35mm² (150A max.)								
					50	50mm² (200A max.)								
			C	10.3mm 300A	50	50mm² (200A max.)					B	Black	1	180°
					70	70mm² (250A max.)								
					85	85mm² & 95mm² (300A max.)							2	60°
	IP	Straight Type	A	5.7mm 120A	16	16mm² (100A max.)	N	W/O Back Shells	N	Non-Sealed	R	Red	3	120°
					25	25mm² (120A max.)								
			B	8.0mm 200A	25	25mm² (120A max.)							4	150°
					35	35mm² (150A max.)								
					50	50mm² (200A max.)								

*Inline receptacle, 90° and 120° keyways only ** Not available for 10.3mm ***Only available for inline type **** 10.3mm requires Keyway selection

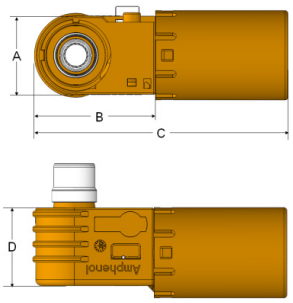
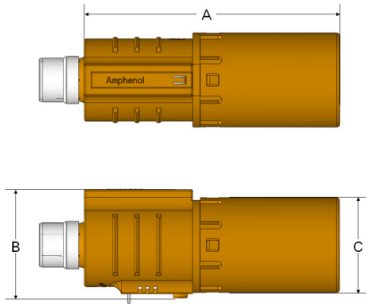
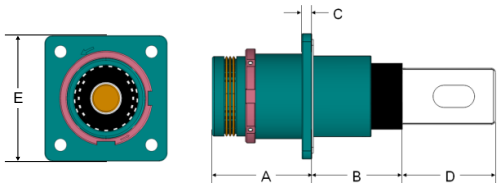
Example:

1 Product Series	2 Type	3 RADSOK® Size	4 Cable Size	5 Back shells	6 Sealing	7 Color	8 Keyway
SLP	P	A	25	B	S	O	
SLP	IP	A	25	B	S	O	3

SLPPA25BSO: 5.7mm SurLok Plus™ Right Angle Plug without shielding and no HVIL, orange, 25mm² cable, waterproof: sealed, keyway: NO KEYWAY

SLPIPA25BSO3: 5.7mm SurLok Plus™ Straight Plug without shielding and no HVIL, orange, 25mm² cable crimp, waterproof: sealed, keyway: 120°

1000V DC EMI Product Dimensions

Item	Right Angle Plug				Straight Plug			Receptacle				
Size												
	A	B	C	D	A	B	C	A	B	C	D	E
8.0mm	26.2	41.2	86.2	25.8	82.5	34.3	30	25.15	22.85	2.5	23.5	31

Note: All dimensions for reference only

1000V DC EMI Ordering Information

Product Series	Type		RADSOK® Size		Cable Size		Back Shells		Sealing		Color		Keyway		EMI		HVIL	
SLP	P	Right Angle 90°	B	8.0mm 250A	35	35mm² (150A max.)	B	W/ Back shells	S	Sealed	O	Orange	0	90°	E	EMI		NON HVIL
													1	270°				
	IP	Straight Type			50	50mm² (200A max.)					B	Black	2	60°				
									N	Non-Sealed			3	120°			H	HVIL
					70	70mm² (250A max.)					R	Red	4	150°				

Product Series	Type		RADSOK® Size		Termination Style		Panel Mount		Sealing		Color		Keyway		EMI		HVIL	
SLP	IR	Receptacle Keyway can rotate 360°	B	8.0mm 250A	B	Busbar	P	Panel Mount W/ Flange	S	Sealed	O	Orange	0	90°	E	EMI		NON HVIL
													1	270°				
											B	Black	2	60°				
									N	Non-Sealed			3	120°			H	HVIL
											R	Red	4	150°				

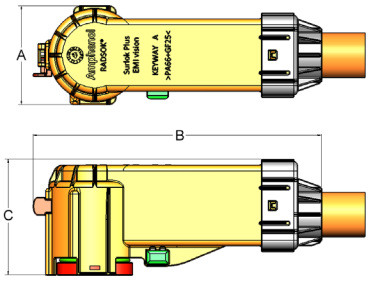
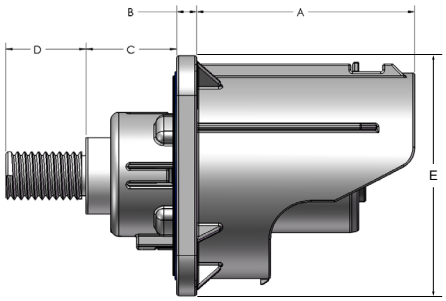
Example:

1 Product Series	2 Type	3 RADSOK® Size	4 Cable Size	5 Back shells	6 Sealing	7 Color	8 Keyway	9 EMI	10 HVIL
SLP	P	B	50	B	S	O	3	E	
Product Series	Type	RADSOK® Size	Termination Style	Panel Mount	Sealing	Color	Keyway	EMI	HVIL
SLP	IR	B	B	P	S	O	1	E	H

SLPPB50BSO3E: 8.0mm SurLok Plus™ Right Angle Plug with shielding and no HVIL, orange, 50mm² cable, waterproof: sealed, keyway: 120°

SLPIRBBPSO1EH: 8.0mm SurLok Plus™ Receptacle with EMI and HVIL, orange, busbar panel, keyway: 270°, waterproof: sealed

1500V DC (EMI) Product Dimensions

Item	Right Angle Plug			Receptacle				
Size								
	A	B	C	A	B	C	D	E
14mm	70	176	71	59.5	5	22.7	20	60

Note: All dimensions for reference only

1500V DC (EMI) Ordering Information

Product Series	Type		RADSOK® Size		Cable Size		Back Shells		Sealing		Color		Keyway		EMI		HVIL	
SLP	HP	Right Angle 90°	E	14mm 450A	S095	95mm² (Shielded) (300A max.)	B	W/ Back shells	S	Sealed	O	Orange	A	Keyway A	E	EMI	N	NON HVIL
					S120	120mm² (Shielded) (300A max.)					B	Black	B	Keyway B				
					S150	150mm² (Shielded) (450A max.)							C	Keyway C			H	HVIL
					U095	95mm² (Unshielded) (300A max.)			N	Non-Sealed	R	Red	D	Keyway D				
					U120	120mm² (Unshielded) (300A max.)							E	Keyway E				
					U150	150mm² (Unshielded) (450A max.)												

Product Series	Type		RADSOK® Size		Termination Style		Panel Mount		Sealing		Color		Keyway		EMI		HVIL	
SLP	HR	Recept.	E	14mm 450A	B	Busbar	P	Panel Mount W/ Flange	S	IP6K9K	G	Gray	A	Keyway A	E	EMI	N	NON HVIL
					T	Threaded			N	Non-Sealed			B	Keyway B				
													C	Keyway C			H	HVIL
													D	Keyway D				
													E	Keyway E				

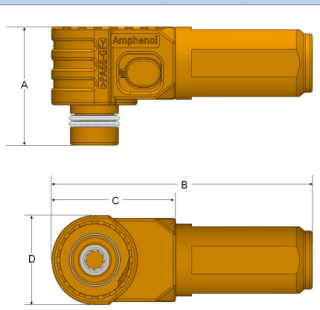
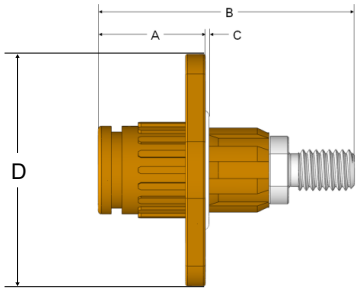
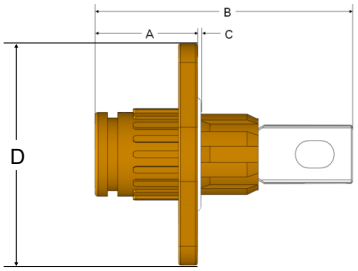
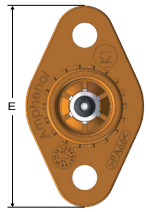
Example:

1 Product Series	2 Type	3 RADSOK® Size	4 Cable Size	5 Back shells	6 Sealing	7 Color	8 Keyway	9 EMI	10 HVIL
SLP	HP	E	S150	B	S	O	C	E	N
Product Series	Type	RADSOK® Size	Termination Style	Panel Mount	Sealing	Color	Keyway	EMI	HVIL
SLP	HR	E	B	P	S	G	B	E	H

SLPHPES150BSOCEN: 14.0mm SurLok Plus™ Right Angle Plug with shielding and no HVIL, orange,150mm² shielding cable, waterproof: sealed, keyway: C

SLPHREBPSGBEH: 14.0mm SurLok Plus™ Receptacle with EMI and HVIL, Gray, busbar panel, keyway: B, waterproof: sealed

1500V DC Product Dimensions

Item	Right Angle Plug				Screw Termination				Busbar Termination				3.6mm Receptacle
Size													
	A	B	C	D	A	B	C	D	A	B	C	D	E
3.6mm	21.2	48.6	23.1	16	16.3	39	0.5	20	16.3	41	0.5	20	34
5.7mm	27.5	66.2	30.5	20	19.3	47.3	0.25	27	19.3	48.3	0.25	27	-
8.0mm	34	82.2	38.4	24.3	22	57.1	0.35	30	22	60	0.35	30	-
10.3mm	43	97.5	40.5	30	27	70	0.25	38	27	69	0.25	38	-
12.0mm	43.5	109.5	45.5	35	30.5	77.5	0.3	44	30.5	79.5	0.3	44	-

Note: All dimensions for reference only

Ordering Information - 1500V DC

Product Series	Type		RADSOK® Size		Cable Size		Back Shells		Sealing		Color		Keyway	
SLP	HP	RA Type	M	3.6mm 70A	06	6 mm² (50A max.)	B	W/ Backshells	S	Sealed	O	Orange	1	20°
					10	10mm² (70A max.)								
			A	5.7mm 120A	16	16mm² (100A max.)					B	Black	2	30°
					25	25mm² (120A max.)								
			B	8.0mm 200A	35	35mm² (150A max.)			N	Non-Sealed				
					50	50mm² (200A max.)					R	Red		
			C	10.3mm 300A	70	70mm² (250A max.)								
					95	95mm² (300A max.)								
			D	12.0mm 360A	120	120mm² (360A max.)								

Product Series	Type		RADSOK® Size		Termination		Panel Mount		Sealing		Color		Keyway	
SLP	HIR	Receptacle W/ Keyway	M	3.6mm 70A	B	Busbar	P	Panel Mount W/ Flange	S	Sealed	O	Orange	1	20°
			A	5.7mm 120A										
			B	8.0mm 200A	T	Threaded			N	Non-Sealed	B	Black	2	30°
			C	10.3mm 300A							R	Red		
			D	12.0mm 360A										

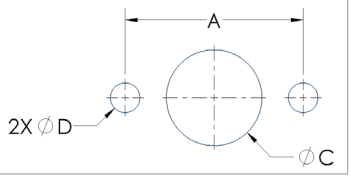
Example:

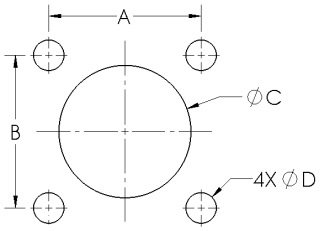
1 Product Series	2 Type	3 RADSOK® Size	4 Cable Size	5 Back shells	6 Sealing	7 Color	8 Keyway
SLP	HP	M	10	B	S	B	1
Product Series	Type	RADSOK® Size	Termination Style	Panel Mount	Sealing	Color	Keyway
SLP	HIR	M	B	P	S	R	2

SLPHPM10BSO1: 3.6mm SurLok Plus™ 1500V Right Angle Plug , without shielding and no HVIL, black, 10mm² cable crimp, waterproof: sealed, keyway: 20°

SLPHIRMBPSR2: 3.6mm SurLok Plus™ 1500V Receptacle without shielding and no HVIL, red, busbar, waterproof: sealed, keyway: 30°

Layout Dimensions

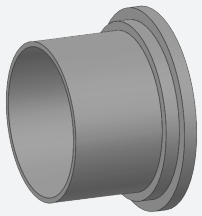
RADSOK® Size	A	ØC	D	Layout Torque	Receptacle Contact Torque		Figure
					Busbar Torque	Screw Torque	
3.6mm	24 ± 0.1	12.9 ± 0.1	M4 Screw	M5 Bolts: 0.4 ~ 0.7 N.m	M4 Bolts: 1.2 ~ 1.5 N.m	M6 Nut: 1.5 ~ 2.0 N.m	

RADSOK® Size	A	B	ØC	D	Layout Torque	Busbar Torque	Screw Torque	Figure
5.7mm	18 ± 0.1	18 ± 0.1	14.3 ± 0.1	M4 Screw	M4 Bolts: 0.8 ± 0.1 N.m	M5 Bolts: 3 ± 0.1 N.m	M6 Nut: 3 ± 0.1 N.m	
8.0mm	21 ± 0.1	21 ± 0.1	18.2 ± 0.1	M4 Screw	M4 Bolts: 0.8 ± 0.1 N.m	M6 Bolts: 6.5 ± 0.1 N.m	M8 Nut: 7 ~ 8 N.m for 1000V 8.5 ± 0.1 N.m for 1500V	
8.0mm EMI	23 ± 0.1	23 ± 0.1	23.3 ± 0.1	M3 Screw	M3 Bolts: 0.8 ± 10% N.m	M6 Bolts: 4.8 ± 10% N.m	N/A	
10.3mm	24.5 ± 0.1	24.5 ± 0.1	22.6 ± 0.1	M4 Screw	M4 Bolts: 0.8 ~ 1.0 N.m	M6 Bolts: 8 ± 0.1 N.m.	M10 Nut: 7.0 ~ 8.0 N.m for 1000V 13.5 ± 0.5 N.m for 1500V	
12.0mm	30 ± 0.1	30 ± 0.1	28.3 ± 0.1	M5 Screw	M5 Bolts: 1.4 ~ 1.6 N.m	M8 Bolts: 8 ~ 9 N.m	M10 Nut: 13 ~ 14 N.m	
14mm EMI	45 ± 0.1	45 ± 0.1	42 ± 0.1	M6 Screw	M6 Bolts: 10 ± 1.0 N.m	M12 Bolts: 15 ± 1.5 N.m	M10 Nut: 10 ± 1.0 N.m M12 Nut: 15 ± 1.5 N.m	

Note: All torques for reference only, details refer to WI.

Optional Accessories

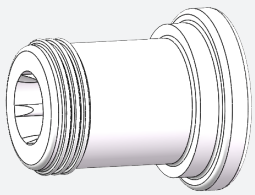
Dust Cap

Voltage	Description	P/N	Figure
1000V DC	SL+ 5.7mm Receptacle Dust CAP	C10-070500-010	
	SL+ 8.0mm Receptacle Dust CAP	C10-070500-012	
	SL+ 8.0mm EMI Plug Dust CAP	C10-070506-10S	
	SL+ 8.0mm EMI Receptacle Dust CAP	C10-686511-016	
	SL+ 10.3mm Receptacle Dust CAP	C10-070500-016	
1500V DC	SL+ 3.6mm Receptacle Dust CAP	C10-070500-009	
	SL+ 5.7mm Receptacle Dust CAP	C10-792372-000	
	SL+ 8.0mm Receptacle Dust CAP	C10-070506-014	
	SL+ 10.3mm Receptacle Dust CAP	C10-070506-016	
	SL+ 12.0mm Receptacle Dust CAP	C10-792372-001	

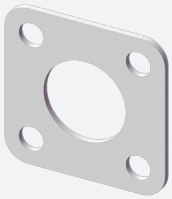
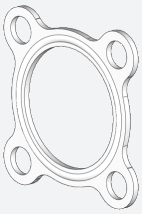
Note: Generic cap image, actual shape and color may vary.

Optional Accessories

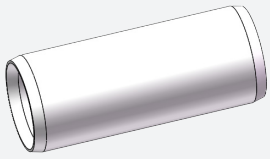
Sealing Cap

Voltage Rating	Sealing Cap	P/N	Figure
1000V DC	SL+ 5.7mm Receptacle Sealing CAP	C10-752804-000	
	SL+ 8.0mm Receptacle Sealing CAP	C10-737307-000	
	SL+ 10.3mm Receptacle Sealing CAP	C10-781989-000	
1500V DC	SL+ 3.6mm Receptacle Sealing CAP	C10-766844-000	
	SL+ 5.7mm Receptacle Sealing CAP	C10-752804-000	
	SL+ 8.0mm Receptacle Sealing CAP	C10-795133-000	
	SL+ 10.3mm Receptacle Sealing CAP	C10-781989-000	

Gasket

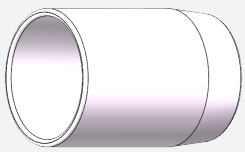
Voltage Rating	Gasket	P/N	Figure
1000V DC	SL+ 5.7mm Gasket	C10-730656-000	
	SL+ 8.0mm Gasket	C10-731812-000	
	SL+ 10.3mm Gasket	C10-731012-000	
	SL+ 8.0mm EMI Gasket	C10-738625-000	
1500V DC	SL+ 3.6mm Gasket	C10-753284-000	
	SL+ 5.7mm Gasket	C10-766105-000	
	SL+ 8.0mm Gasket	C10-765562-000	
	SL+ 10.3mm Gasket	C10-765504-000	
	SL+ 12.0mm Gasket	C10-779229-000	
	SL+ 14.0mm Gasket	C10-765569-000	

Crimp Sleeve Reducer

Voltage Rating	Sleeve Reducer	P/N	Figure
1000V DC	SL+ 5.7mm Crimp Sleeve Reducer	C10-737238-003 (16mm²)	
	SL+ 8.0mm Crimp Sleeve Reducer	C10-737127-253 (25mm²)	
		C10-737127-003 (35mm²)	
	SL+ 8.0mm EMI Crimp Sleeve Reducer	C10-738626-002 (35mm²)	
		C10-738626-001 (50mm²)	
	SL+ 10.3mm Crimp Sleeve Reducer	C10-737887-053 (50mm²)	
		C10-737887-073 (70mm²)	
1500V DC	SL+ 3.6mm Crimp Sleeve Reducer	C10-754843-063 (6mm²)	

Optional Accessories

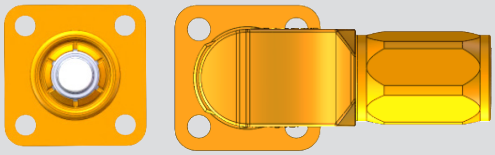
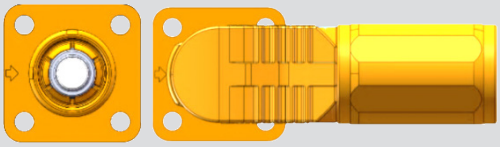
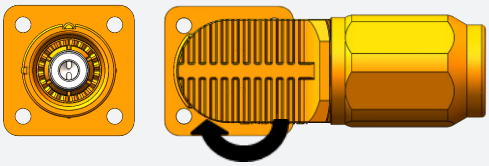
Cable Grommet

Voltage Rating	Gasket	P/N (Cable Size)	Recommended Cable OD (mm)	Figure
1000V DC	SL+ 5.7mm Cable Grommet	C10-730653-030 (16 mm²)	Ø8.10 ± 0.2	 Cable Grommet
		C10-730653-040(25 mm²)	Ø10.2 ± 0.2	
	SL+ 8.0mm Cable Grommet	C10-731821-020 (25 mm²)	Ø10.2 ± 0.2	
		C10-731821-030 (35 mm²)	Ø11.5 ± 0.3	
		C10-731821-050(50 mm²)	Ø13.6 ± 0.3	
	SL+ 8.0mm EMI Cable Grommet	C10-738617-003 (35 mm²)	Ø14.5 ± 0.5	
		C10-738617-002 (50 mm²)	Ø17.0 ± 0.5	
		C10-738617-001 (70 mm²)	Ø19.5 ± 0.5	
	SL+ 10.3mm Cable Grommet	C10-762115-050 (50 mm²)	Ø13.6 ± 0.3	
		C10-762115-070 (70 mm²)	Ø15.5 ± 0.3	
		C10-762115-080 (85/95 mm²)	Ø18.2 ± 0.3	
	SL+ 5.7mm Inline Receptacle Cable Grommet	C10-766102-100: Support Piece (16 mm² and 25 mm²)		 Support Piece
		C10-766101-016 (16 mm²)	Ø8.10 ± 0.2	
		C10-766101-025 (25 mm²)	Ø10.2 ± 0.2	
	SL+ 8.0mm Inline Receptacle Cable Grommet	C10-762841-025 (25 mm²)	Ø10.2 ± 0.2	
		C10-762841-035 (35 mm²)	Ø11.5 ± 0.3	
		C10-762841-050 (50 mm²)	Ø13.6 ± 0.3	
1500V DC	SL+ 3.6mm Cable Grommet	C10-754739-006(6 mm²)	Ø4.8 ± 0.2	
		C10-754739-010(10 mm²)	Ø6.25 ± 0.2	
	SL+ 5.7mm Cable Grommet	C10-766102-100: Support Piece (16 mm² and 25 mm²)		
		C10-766623-016 (16 mm²)	Ø8.10 ± 0.2	
		C10-766623-025 (25 mm²)	Ø10.2 ± 0.2	
	SL+ 8.0mm Cable Grommet	C10-766102-100: Support Piece (35 mm² and 50 mm²)		 Cable Grommet
		C10-766624-035 (35 mm²)	Ø11.5 ± 0.3	
		C10-766624-050 (50 mm²)	Ø13.6 ± 0.3	
	SL+ 10.3mm Cable Grommet	C10-765499-100: Support Piece (70 mm² and 95mm²)		
		C10-765498-070 (70 mm²)	Ø15.5 ± 0.3	
		C10-765498-090 (95 mm²)	Ø18.2 ± 0.3	

Note: If customer's cable range is not commensurate with the recommended cable diameter, they should consult tech@amphenol-aio.com

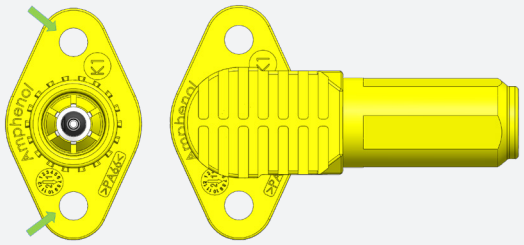
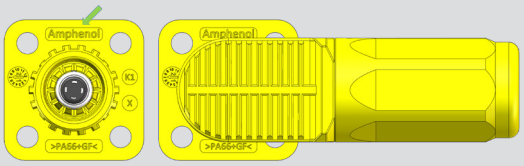
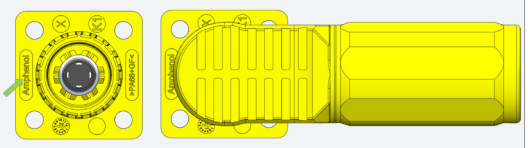
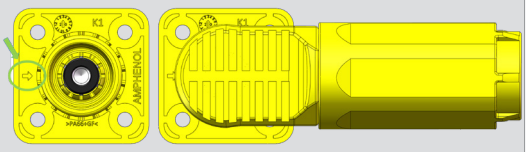
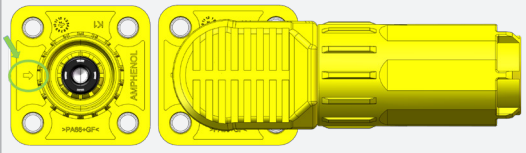
Keyway Reference

1000V DC Connector:

RADSOK® Size	P/N				Description
	Type	RA Plug	Straight Plug	Receptacle	
5.7mm W/O Keyway	Coded Number	SLPPA( )B( )( )	SLPIPA( )B( )( )	SLPRA( )P( )( )	 360° Rotation
5.7mm W/ Keyway	Coded Number	SLPPA( )B( )( )( )	SLPIPA( )B( )( )( )	SLPIRA( )P( )( )( )	 Non-Rotatable
8.0mm W/O Keyway	Coded Number	SLPPB( )B( )( )	SLPIPB( )B( )( )	SLPRB( )P( )( )	 360° Rotation
8.0mm W/ Keyway	Coded Number	SLPPB( )B( )( )( )	SLPIPB( )B( )( )( )	SLPIRB( )P( )( )( )	 Non-Rotatable
10.3mm Keyway	Coded Number	SLPPC( )B( )( )( )	/	SLPIRC( )P( )( )( )	 360° Rotation

Keyway Reference

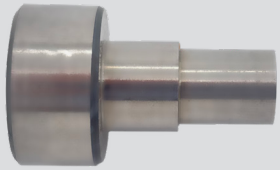
1500V DC Connector: Multi-Directional Outgoing

RADSOK® Size	P/N				Description
	Type	RA Plug	Straight Plug	Receptacle	
3.6mm Keyway	Coded Number	SLPHPM( )B( )( )( )	/	SLPHIRM( )P( )( )( )	
5.7mm Keyway	Coded Number	SLPHPA( )B( )( )( )	/	SLPHIRA( )P( )( )( )	
8.0mm Keyway	Coded Number	SLPHPB( )B( )( )( )	/	SLPHIRB( )P( )( )( )	
10.3mm Keyway	Coded Number	SLPHPC( )B( )( )( )	Coming Q2 2024	SLPHIRC( )P( )( )( )	
12.0mm Keyway	Coded Number	SLPHPD( )B( )( )( )	/	SLPHIRD( )P( )( )( )	

Master Keyway: Orientation of the receptacle is highlighted in the connector images above. From this orientation, the cable exit direction will clock at degree intervals indicated by the specific keyway in the table to the right.

KEYWAY (Y°)			
	K1	20°	18 Positions
	K2	30°	12 Positions

Tools

Product Series	Part Number	Description	Photo
SurLok™ Plus EMI	FX3-0001-001	Shielding assembly	
SurLok™ Plus EMI	FX3-0006-001	Assembly HVIL Contact	
SurLok™ Plus	FX3-0026-001	SL+ 5.7MM screw type receptacle wrench	
SurLok™ Plus	FX3-0036-001	8.0 SL+ REC M6 Wrench	
SurLok™ Plus	FX3-0024-001	10.3mm SL wrench	
SurLok™ Plus	FX3-0042-002	SurLok™ Plus 3.6mm threading cable tool	
SurLok™ Plus Fixture for Pin Assemblies	FX3-0191-004	3.6 SL+ 1500V	
	FX3-0190-001	5.7 SL+1000V & 1500V	
	FX3-0189-001	8.0 SL+1000V & 1500V	
	FX3-0188-001	10.3 SL+1000V & 1500V	
	FX3-0187-017	12.0 SL+ 1500V	
SurLok™ Plus	FX3-0067-001	10.3 SL+ 1500V fixture for grommet assemblies	

Patents



Customized Cable Assemblies



AMPHENOL CORPORATION
Amphenol Industrial Operations
Phone: 888-364-9011
20 Valley Street
Endicott, NY 13760-3600
www.amphenol-industrial.com

Amphenol Technology(Zhuhai) Co., Ltd.
No.63, Xinghan Road, Sanzao Town,
Jinwan, Zhuhai, 519040
China Tel: +86-756-398 9725
Fax: +86-756-398 9768
www. amphenol-industrial.com
Email: tech@amphenol-aio.com

IC-10-8

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 or 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 not 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

PSL-574 SLPRATPSR SLPRABPSO SLPPA25BSB SLPRBTPSO SLPRBTPSR SLPRA25CPSB SLPRA25CPSO SLPRABPSB SLPRBBPSR SLPRBBPSB SLPRABPSR SLPPA25BSO SLPRATPSB SLPPA25BSR SLPRBBPSO SLPRBTPSB SLPRB50CPSO SLPRB50CPSR SLPIPB50BSO0 SLPIPB50BSB0 SLPIPB50BSR0 SLPIPB35BSO0 SLPIPB35BSR0 SLPIPB35BSB0 SLPPA16BSB SLPIRB35CPSO0 SLPPC70BSB0 SLPIRCTPSB0 SLPIRB50CPSO0 SLPIRC70CPSR0 SLPIRCBPSB0 SLPPC85BSR1 SLPPC85BSO1 SLPIRCTPSO0 SLPPC50BSB0 SLPIRBTPSB0 SLPIRCTPSO1 SLPIPB35BSO1 SLPRB35CPSO SLPIPB50BSO1 SLPIRBBPSO0 SLPIRBBPSB0 SLPPC85BSB0 SLPIRC85CPSO0 SLPRBTNNO SLPRB35CPSR SLPIRC85CPSR0 SLPPC50BSO1 SLPPC85BSO0 SLPIRC85CPSB0 SLPIPB35BSR1 SLPIPB35BSB1 SLPIRCTPSB1 SLPIRBTPSO1 SLPIRB50CPSR1 SLPIRB35CPSR1 SLPRATNSR SLPRA16CPSB SLPIRC70CPSB0 SLPRBTNNB SLPPC50BSO0 SLPIRC50CPSO0 SLPIRBTPSR1 SLPIRCTPSR0 SLPPC70BSB1 SLPIRCBPSR0 SLPIRC50CPSB0 SLPIRC50CPSR0 SLPPC50BSR0 SLPRATNSB SLPIRB35CPSO1 SLPRATNSO SLPIRC70CPSO0 SLPIRBBPSR1 SLPIRBTPSO0 SLPPC50BSR1 SLPPC70BSR1 SLPPC50BSB1 SLPRB35CPSB SLPIRC70CPSB1 SLPIRCBPSR1 SLPRBTNNR SLPIRB35CPSB0 SLPPC85BSR0 SLPIRC70CPSR1 SLPIRB50CPSO1 SLPIRBBPSO1 SLPIRB50CPSB0 SLPIPB50BSB1 SLPIRCTPSR1 SLPIPB50BSR1 SLPIRBTPSR0 SLPIRBTPSR2 SLPPC85BSR2 SLPPC50BSR2 SLPPC50BSO2 SLPIRB35CPSR0 SLPIRB35CPSR3 SLPIRB35CPSB1