



## RADLOK™

### Rugged, Compact & Cost Effective Power Interconnect Solution

Utilizing Amphenol latest RADSOK® technology, Amphenol RADLOK™ product line was designed with compactness and robustness in mind.

Power Interconnect products on today's market often require additional mounting hardware (e.g. washers, clamps, bolts, nuts) prone to costly labor and consume human resources upon installation and maintenance routine.

Coupling with Amphenol's RADLOK™ PIN, the one finger operated lock feature allows user connects any power distribution/storage system in a quick and secure manner.

RADLOK™ product line is the answer to industries where a custom, reliable, easy to install, rugged, and cost effective solution is required.

## FEATURES

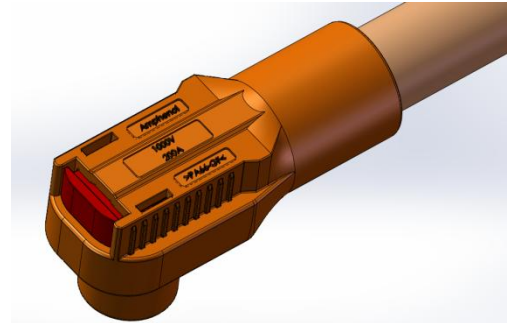
- . Current Rating : 70A - 500A
- . Voltage Rating :1000V DC
- . Tool-Free Mechanical Locking
- . High cycle durability (500 Min)
- . ROHS complaint

## Technical Data

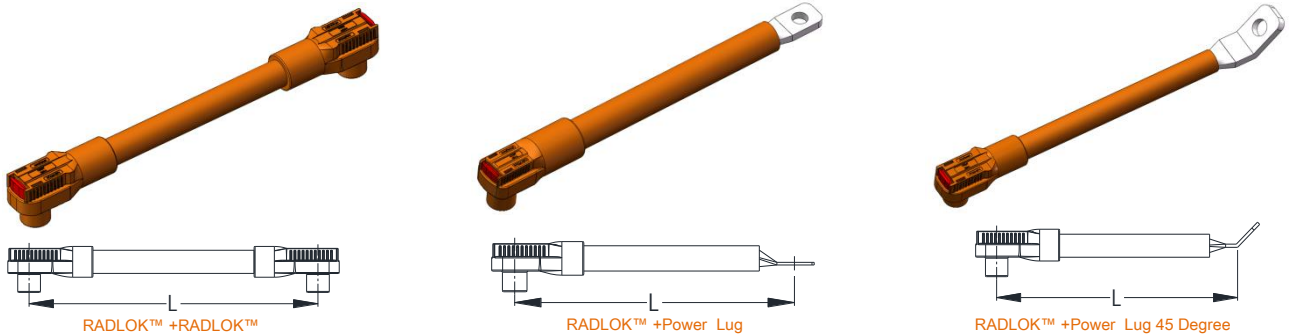
Current Rating	70A - 500A
Voltage Rating	1000V
Temperature Range	-40°C to +125°C (Including Temperature Rise)
Flammability	UL94 V-0
Mating Cycle	500 Min

## RADLOK™ Recommended Cable Size & Current

RADSOK® Size (mm)	Recommended Cable Size (mm²)	Current (A)
3.6	10	70
5.7	16	90
	25	120
8.0	35	150
	50	200
10.0	50	200
	70	250
	95	300
12.0	120	400
14.0	135	450
14.0	150	500



## RADLOK™ Cable Assembly

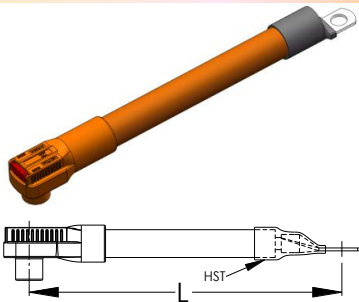


## RADLOK™ Cable Assembly Ordering Information

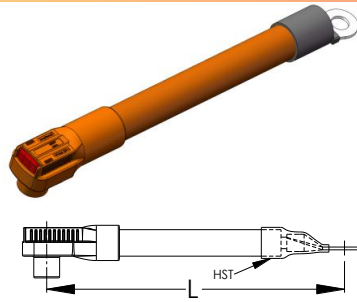
Product Type	(A) Termination Type	(B) RADSOK®	(S) Cable Size	(L) Length (mm)	(E) Connector Color	(M) Stud Size
RL RADLOK™	1 RADLOK™ + RADLOK™	036	3.6	L + Length	Blank for orange	N/A
	2 RADLOK™ + Power Lug	057	5.7		BK Black	*M / E + Stud Size
	3 RADLOK™ + Power Lug 45 Degree	080	8.0		RE Red	*M / E + Stud Size
	4 RADLOK™ + Lug Terminal	100	10.0			*M / E + Stud Size
	5 RADLOK™ + Ring Terminal	120	12.0			*M / E + Stud Size
	6 RADLOK™ + Blunt Cut	140	14.0			N/A
	7 RADLOK™ + Stripped					

## Ordering example

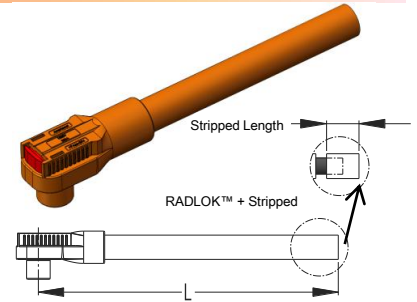
	<b>RL</b>	<b>4</b>	<b>080</b>	<b>- 50</b>	<b>- L200-</b>	<b>- M8</b>
RADLOK™						
(A) Termination Type : RADLOK™ + Lug Terminal						
(B) RADSOK® Size : Diameter 8mm						
(S) Cable Size : 50mm²						
(L) Length : 200mm						
(E) Connector Color : Orange						
(M) Stud Size : 8mm						



RADLOK™ + Lug Terminal



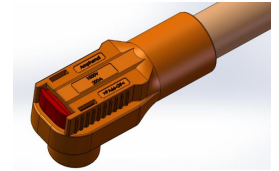
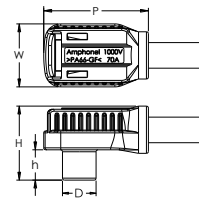
RADLOK™ + Ring Terminal



RADLOK™ + Blunt Cut

## RADLOK™ Cable Assembly

RADSOK® Size (mm)	Recommended Cbl Size (mm <sup>2</sup> )	RADSOK® Size (mm)			
		W	H	h	D
3.6	10	15.5	18.3	7.3	Φ8.10
5.7	16 & 25	18.5	21.9	9.4	Φ11.2
8.0	35 & 50	21.6	27.0	11.8	Φ14.6
10.0	35 & 50	26.0	33.8	15.9	Φ17.5
	70	26.0	34.3	15.9	Φ17.5
12.0	95	26.0	37.0	15.9	Φ17.5
	120	28.5	37.3	15.0	Φ20.0
14.0	135 & 150	31.0	46.3	22.3	Φ23.0

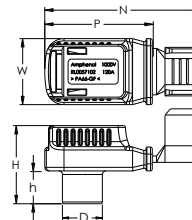
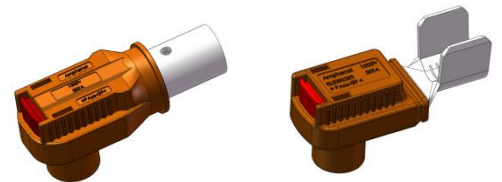


RADLOK™ Cable Assembly

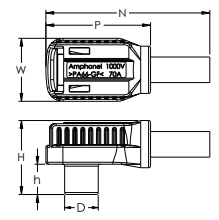
## RADLOK™ Connector

### RADLOK™ Connector Parameter (Tubular Version)

RADSOK® Size(mm)	RADSOK® Size (mm)					
	W	N	H	h	D	P
3.6	15.5	38.0	18.3	7.3	Φ8.10	27.0
5.7	18.5	47.7	22.9	9.4	Φ11.2	33.0
8.0	21.6	56.0	27.7	11.8	Φ14.6	38.8
10.0	31.0	61.0	35.3	15.9	Φ17.5	37.0
12.0	33.0	70.5	35.9	15.0	Φ20.0	44.5
14.0	31.0	72.0	48.0	22.3	Φ23.0	45.0



Tubular Lug Version



Stamped Lug Version

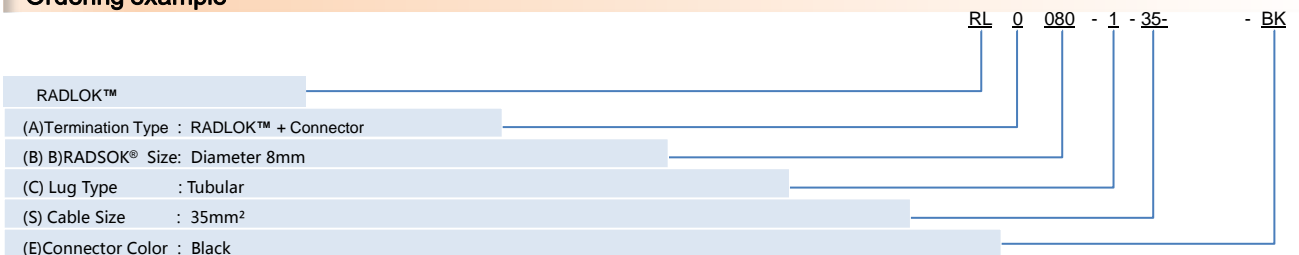
### RADLOK™ Connector Parameter (Stamped Version)

RADSOK® Size(mm)	RADSOK® Size (mm)					
	W	N	H	h	D	P
3.6	15.5	38.8	18.0	7.3	Φ8.10	27.0
5.7	18.5	43.6	21.9	9.2	Φ11.2	30.0
8.0	21.7	54.4	27.7	12.5	Φ14.5	34.3
		58.0				
10.0	25.7	59.0	33.3	16.1	Φ17.0	35.7
		62.0				
12.0	28.5	71.4	33.8	15.0	Φ20.0	44.5
14.0	31.0	75.5	42.5	22.3	Φ23.0	45.0

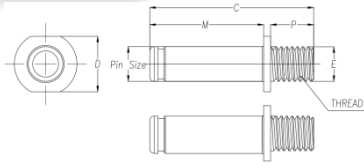
## RADLOK™ Connector Ordering Information

Product Type		(A) Termination Type	(B) RADSOK® Size (mm)		(C) Lug Type		(S) Cable Size	(E) Connector Color		
RL	RADLOK™	0	RADLOK™ + Connector	036	3.6	1	Tubular	Refer to "RADLOK™ Recommended Cable Size & Current" Chart		Blank for orange
				057	5.7	2	Stamped		BK	Black
				080	8.0				RE	Red
				100	10.0					
				120	12.0					
			140	14.0						

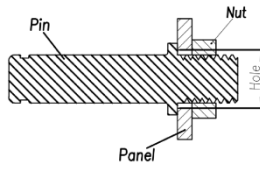
## Ordering example



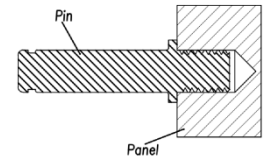
## RADLOK™ Pin



Only for 10.0mm



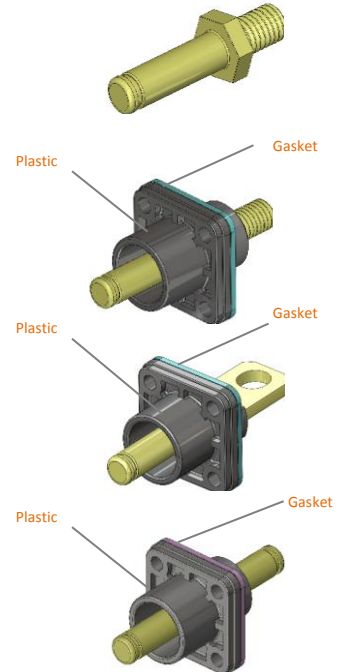
Instruction 1



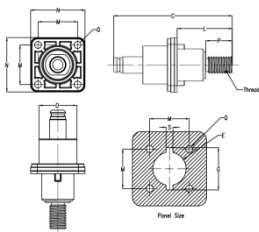
Instruction 2

## RADLOK™ Pin Data

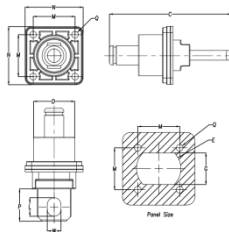
Pin Type	Pin End	RADLOK™ Pin Size (mm)	Current (A)	RADLOK™ Dimensions(mm)													Thread	Torque Force (N-m)	
				C	D	E	G	L	M	N	P	Q	S	W					
Pin	N/A	3.6	70	28.0	7.0					17.5	N/A	8.0						M4X0.7-6g	2.5±0.2
		5.7	120	34.1	10.0					21.1		10.0						M6x1.0-6g	4.0±0.4
		8.0	200	42.4	13.0	N/A	N/A	N/A		26.4		12.0						M8 x 1.25-6g	7.5±0.5
		10.0	300	53.2	16.0					32.2		16.0						M10 x 1.5-6g	20.0±1.0
		12.0	400	58.6	18.0					32.6		20.0							M12 x 1.75-6g
		14.0	500	72.0	24.0				41.0		23							M14 x 2.00-6g	24.0±1.0
Thread		3.6	70	43.9	Φ11.9	Φ11.9	15.2	22.2	14.0	8.0	21.0	8.0	M3	2.8				M4 x 0.7-6g	2.5±0.2
		5.7	120	49.6	Φ15.2	Φ14.7	18.2	24.2	17.0	25.0	10.0							M6 x 1.0-6g	4.0±0.4
		8.0	200	56.4	Φ19.6	Φ18.2	23.7	25.0	21.0	30.0	12.0							M8 x 1.25-6g	7.5±0.5
		10.0	300	67.0	Φ23.0	Φ20.6	25.7	29.0	24.0	33.0	16.0	M4	4.2					M10 x 1.5-6g	20.0±1.0
		12.0	400	72.0	Φ25.5	Φ23.3	27.7	33.0	26.0	36.0	20.0							M12 x 1.75-6g	24.0±1.0
		14.0	500	83.0	Φ28.0	Φ27.3	31.8	36.0	27.0	37.0	23.0							M14 x 2.0-6g	24.0±1.0
Feed Thru Pin	Lug	3.6	70	46.7	Φ11.9	Φ12.5	10.3	5.0	14.0	21.0	13.5	M3	2.8	4.2					
		5.7	120	53.6	Φ15.2	Φ14.5	12.4	7.0	17.0	25.0	16.0			6.3					
		8.0	200	62.5	Φ19.6	Φ22.1	15.6	10.0	21.0	30.0	22.5			8.5					
		10.0	300	70.0	Φ23.0	Φ25.6	17.6	12.5	24.0	33.0	24.0	M4	4.2	10.5				N/A	N/A
		12.0	400	77.5	Φ25.5	Φ27.6	19.6	14.0	26.0	36.0	27.5			13.0					
		14.0	500	90.0	Φ28.0	Φ26.2	21.7	15.5	27.0	37.0	29.0			14.5					
Pin		3.6	70	41.3	Φ11.9	Φ11.9	15.2		14.0	21.0		M3	2.8						
		5.7	120	50.0	Φ15.2	Φ14.7	18.2		17.0	25.0									
		8.0	200	60.8	Φ19.6	Φ18.2	23.7		21.0	30.0									
		10.0	300	74.5	Φ23.0	Φ20.6	25.7		24.0	33.0		N/A	4.2					N/A	N/A
		12.0	400	78.0	Φ25.5	Φ23.3	27.7		26.0	36.0									
		14.0	500	96.0	Φ28.0	Φ27.3	31.8		27.0	37.0									



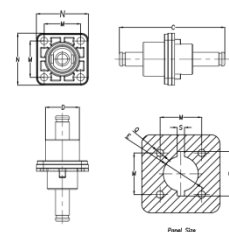
## RADLOK™ Feed Thru Pin



RADLOK™ + Feed Thru Pin(Pin-Thread)



RADLOK™ + Feed Thru Pin(Pin-Lug)



RADLOK™ + Feed Thru Pin(Pin-Pin)

## RADLOK™ Pin Ordering Information

Product Type	(A) Termination Type	(B) RADSOK® Size (mm)	(C) Pin End	(D) Plating Type	(E) Modification									
					Blank for Standard Pin	Blank for Color	OR	Blank for Color						
RL	RADLOK™	9	RADLOK™ Pin	036	3.6	10	Thread	1	Silver					
				057	5.7	20	Lug	2	Tin	F1		Blank for Standard Pin		Blank for Color
				080	8.0	30	Pin-Pin	3	Nickel			Feed Thru Pin	OR	Orange
				100	10.0								BK	Black
				120	12.0								RE	Red
		140	14.0											

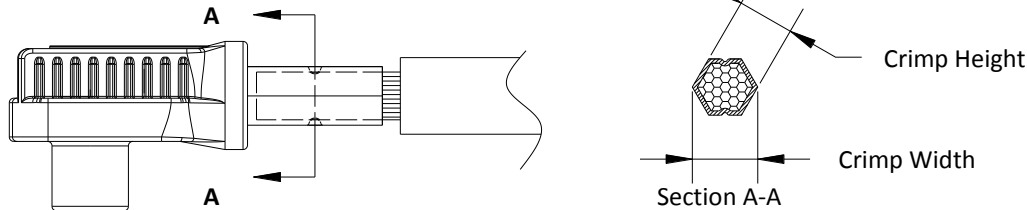
## Ordering example

**RADLOK™**  
 (A) Termination Type : Pin  
 (B) RADSOK® Pin Size : Diameter 8mm  
 (C) RADLOK™ Pin End : Tubular  
 (D) Plating : Silver  
 (E) Pin Type : Feed Thru Pin

**RL 9 080 - 10 - 1 - F1**

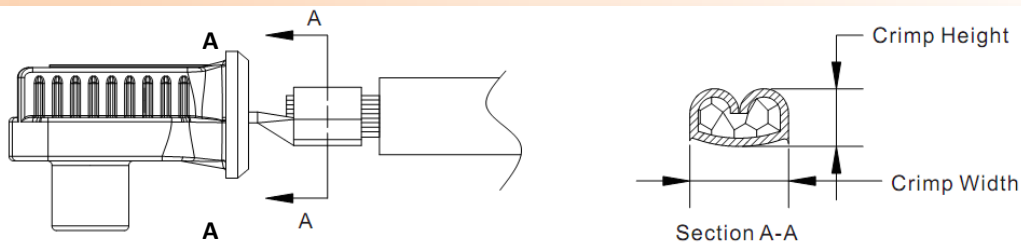
## RADLOK™ Crimping Specification

### RADLOK™ Connector Crimping Specification (Tubular Version)



Ordering Number	Wire Size (mm <sup>2</sup> )	Crimp Height (mm)	Crimp Width (mm)/REF	Pullout Force (N)
RL00361-10	10	5.4±0.5	6.0	600
RL00571-16	16	7.0±0.5	8.45	1500
RL00571-25	25	8.25±0.5	9.0	1900
RL00801-35	35	9.55±0.5	10.5	2200
RL00801-50	50	11.35±0.5	12.8	2700
RL01001-50	50	11.35±0.5	12.8	2700
RL01001-70	70	13.25±0.5	14.8	3300
RL01001-95	95	16.25±0.5	18.2	3700
RL01201-120	120	16.5±0.5	19.0	4000
RL01401-135	135	19.1±0.5	21.5	4903
RL01401-150	150	19.6±0.5	22.0	5447

### RADLOK™ Connector Crimping Specification (Stamped Version)



Ordering Number	Wire Size (mm <sup>2</sup> )	Crimp Height (mm)	Crimp Width (mm)	Pullout Force (N)
RL00362-10	10	5.05±0.5	7.4±0.5	600
RL00572-16	16	7.10±0.5	11.0±0.5	1500
RL00572-25	25	8.00±0.5	10.9±0.5	1900
RL00802-35	35	8.50±0.5	12.4±0.5	2200
RL00802-50	50	9.50±0.5	12.5±0.5	2700
RL01002-35	35	8.50±0.5	12.3±0.5	2200
RL01002-50	50	9.50±0.5	12.4±0.5	2200
RL01002-70	70	13.30±0.5	18.4±0.5	3300
RL01002-95	95	13.80±0.5	18.8±0.5	3700
RL01202-120	120	15.70±0.5	21.3±0.5	4000
RL01402-135	135	16.80±0.5	22.4±0.5	4903
RL01402-150	150	17.60±0.5	22.6±0.5	5447

### The information contained in this data sheet is for reference only.

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. AMPHENOL is a registered trademark of Amphenol Corporation.

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

**Amphenol** Technical Products  
International Co.  
2110 Notre Dame Avenue Winnipeg, MB  
Canada R3H 0K1  
Telephone: 1-204-697-2222  
Fax: 1-204-694-6164  
www.ptil.com

**Amphenol** Sincere Flex Circuits Co., Ltd.  
No. A, WanAn Industrial Park LanHe Town, Nansha  
District, Guangzhou - China 511480  
Telephone: 020-3483-9801  
Fax: 020-3483-9800  
www.amphenol-gasf.com

**Amphenol** Industrial Operations  
40-60 Delaware Street Sydney, New York  
13838-1395 - USA  
Telephone: 020-3483-9801  
Fax: 020-3483-9800  
www.amphenol-industrial.com