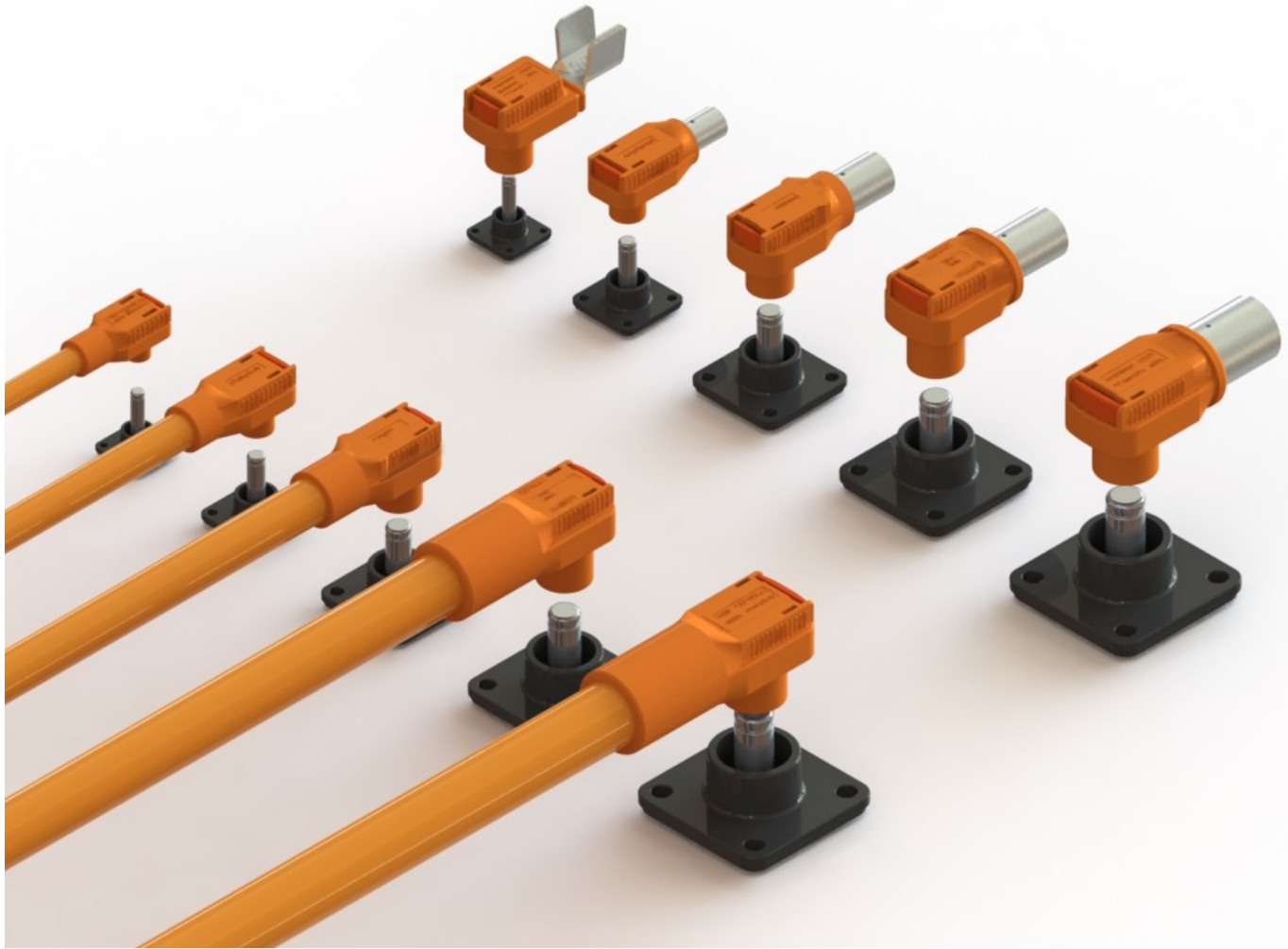




RADLOK™

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 - 400A
- Tool-Free Mechanical Locking
- High cycle durability (500 mating cycles)
- RoHS complaint
- Available in Black, Red, Orange (custom coloring available)

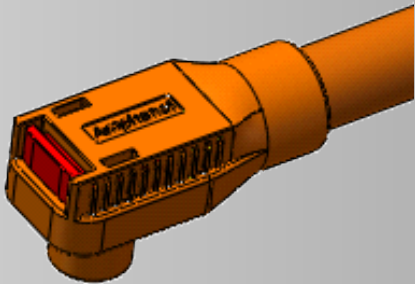
Technical Data

DC Current Rating	35A - 400A
Temperature Range	-40°C to +125°C
Flammability	UL94 V-0
Mating Cycle	500

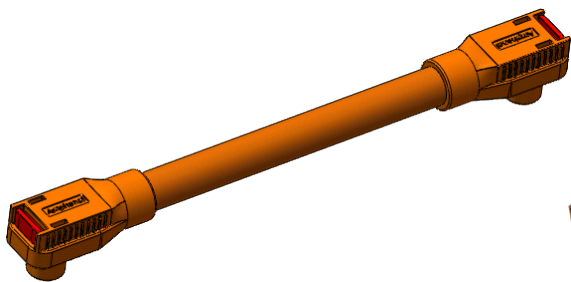
RADLOK™

RADLOK™ Recommended Cable Size & Current

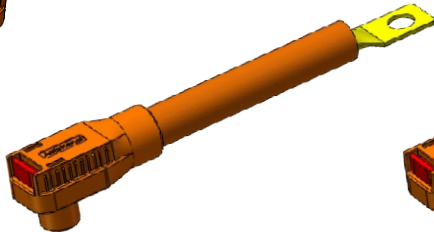
RADSOK® Size (mm)	Recommended Cbl Size (mm²)	Current (A)
3.6	10	70
5.7	16	90
	25	120
8.0	35	150
	50	200
10.0	50	200
	70	250
	95	300
10.3	95	350
12.0	120	400



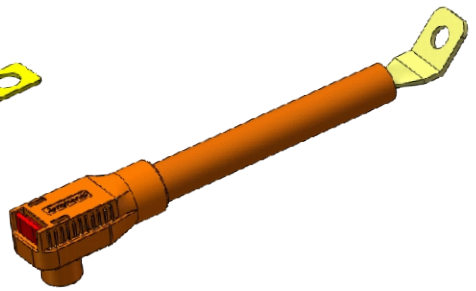
RADLOK™ Cable Assembly



RADLOK™ + RADLOK™



RADLOK™ + Power Lug



RADLOK™ + Power Lug 45 Degree

RADLOK™ Cable Assembly Ordering Information

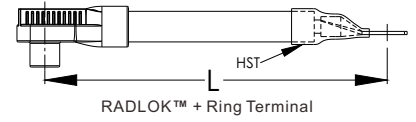
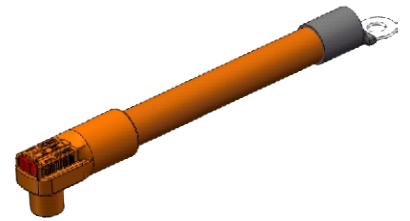
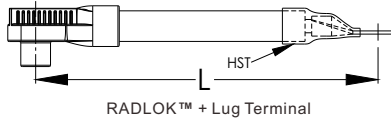
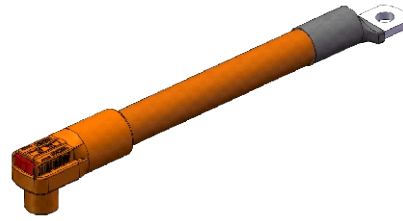
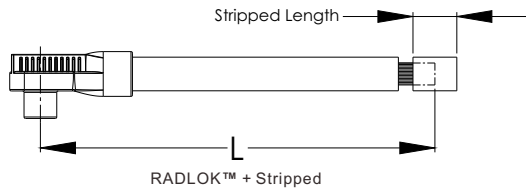
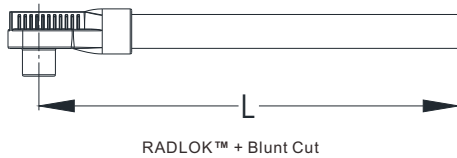
Product Type	(A) Termination Type	(B) RADSOK® Size (mm)	(S) Cable Size	(L) Length (mm)	(E) Connector Color	(M) Stud Size
RL	1 RADLOK™ + RADLOK™	036	3.6	Refer to "RADLOK™ Recommended Cable Size & Current" Chart		N/A
	2 RADLOK™ + Power Lug	057	5.7		BK	*M / E + Stud Size
	3 RADLOK™ + Power Lug 45 Degree	080	8.0		RE	*M / E + Stud Size
	4 RADLOK™ + Lug Terminal	100	10.0			*M / E + Stud Size
	5 RADLOK™ + Ring Terminal	103	10.3			*M / E + Stud Size
	6 RADLOK™ + Blunt Cut	120	12.0			N/A
	7 RADLOK™ + Stripped					Stripped Length(mm)

*Note : For "Stud Size", M for Metric Unit & E for Imperial Unit. For example, M8 means the Stud Size is 8mm ; E3/4 means the Stud Size is 3/4inch.

Ordering example

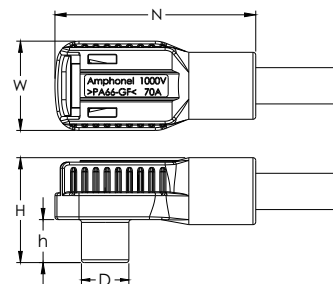
RADLOK™	RL	4	080	-	50	-	L200	-	M8
(A)Termination Type : RADLOK™ +Lug Terminal									
(B)RADSOK® Size : Diameter 8mm									
(S)Cable Size : 50mm²									
(L)Length : 200mm									
(E)Connector Color : Orange									
(M)Stud Size : 8mm									

Amphenol



RADLOK™ Cable Assembly

RADSOK® Size (mm)	Recommended Cbl Size (mm²)	RADSOK® Size (mm)				
		W	N	H	h	D
3.6	10	15.5	36.0	18.3	7.3	Φ 8.1
5.7	16 & 25	18.5	47.0	21.9	9.4	Φ 11.2
8.0	35 & 50	21.6	55.3	27.0	11.8	Φ 14.6
10.0	35 & 50	26.0	53.0	33.8	15.7	Φ 17.5
	70	26.0	63.2	34.3	15.7	Φ 17.5
	95	26.0	65.5	37.0	15.7	Φ 17.5
10.3	95	26.0	65.5	37.0	15.7	Φ 17.5
12.0	120	28.5	76.0	37.3	15.0	Φ 20.0

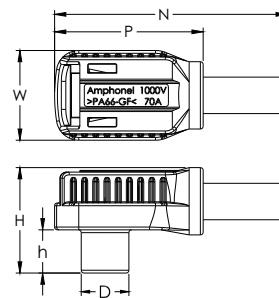
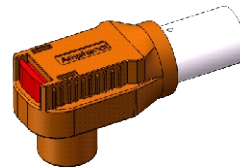


RADLOK™ Cable Assembly

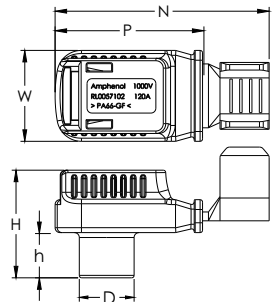
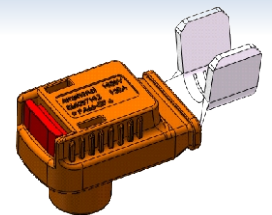
RADLOK™ Connector

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	Φ 8.1	27.0
5.7	18.5	47.7	22.9	9.4	Φ 11.2	33.0
8.0	21.6	56.0	27.0	11.8	Φ 14.6	38.8
10.0	26.0	61.0	37.0	15.7	Φ 17.5	37.0
10.3	26.0	61.0	37.0	15.7	Φ 17.5	37.0
12.0	28.5	70.5	35.9	15.0	Φ 20.0	44.5



Tubular Lug Version



Stamped Lug Version

RADLOK™ Connector Parameter (Stamped Version)

RADSOK® Size(mm)	RADSOK® Size (mm)					
	W	N	H	h	D	P
5.7	18.5	46.0	21.9	9.2	Φ 11.2	30.0
8.0	21.7	54.4	27.7	12.5	Φ 14.6	34.3
10.0	25.7	65.0	33.3	16.1	Φ 17.5	35.7

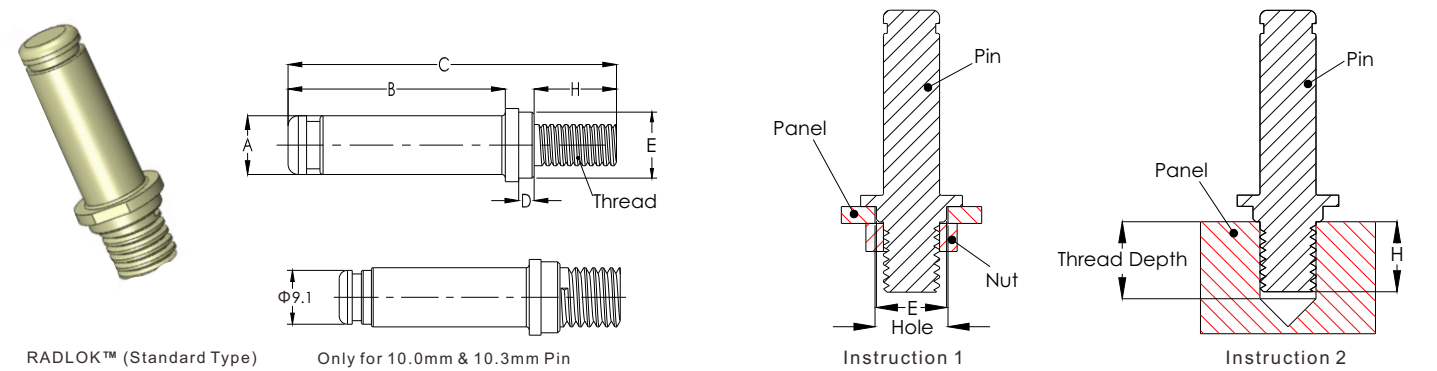
RADLOK™ Connector Ordering Information

Product Type		(A) Termination Type		(B) RADSOK® Size (mm)		(C) Lug Type		(S) Cbl 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					
				103	10.3					
				120	12.0					

Ordering example

RADLOK™	RL	0	080	1	-	35	BK
(A)Termination Type : RADLOK™ +Connector							
(B)RADSOK® Size : Diameter 8mm							
(C)Lug Type : Tubular							
(S)Cable Size : 35mm²							
(E)Connector Color : Black							

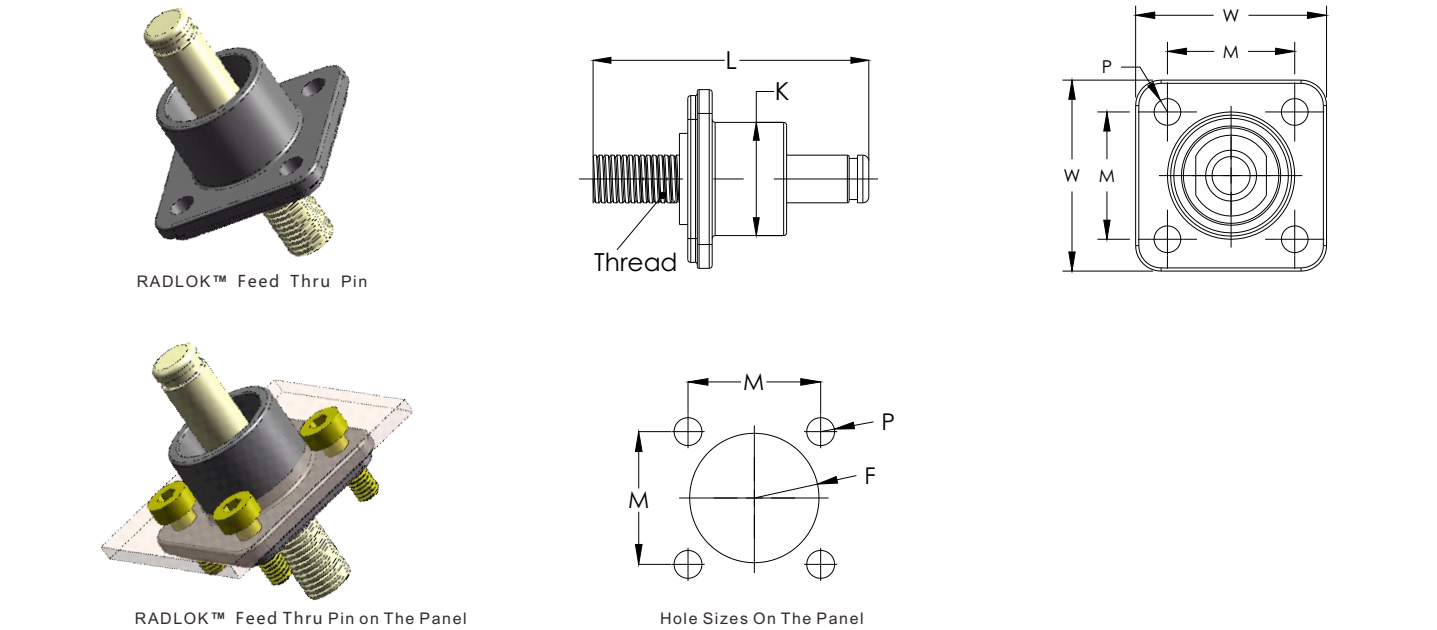
RADLOK™ Pin



RADLOK™ Pin Data

RADLOK™ Pin Size(mm)	Current (A)	RADLOK™ Pin Size (mm)							Ordering Number (XXX for Plating)	Plating (XXX)	
		A	B	C	D	E	H	Thread			
3.6	70	3.6	17.4	25.2	1.5	$\Phi 4.8$	5.0	M 3 x 0.5-6g	RL9036-XXX	101	Silver
5.7	120	5.7	21.1	33.9	1.5	$\Phi 7.0$	10.0	M 6 x 1.0-6g	RL9057-XXX	102	Tin
8.0	200	8.0	26.4	40.2	2.2	$\Phi 10.0$	10.0	M 8 x 1.25-6g	RL9080-XXX	103	Nickel
10.0	300	10.0	32.2	47.4	3.2	$\Phi 12.0$	10.0	M 10 x 1.5-6g	RL9100-XXX		
10.3	350	10.3	32.2	47.4	3.2	$\Phi 12.0$	10.0	M 10 x 1.5-6g	RL9103-XXX		
12.0	400	12.0	32.9	47.9	2.8	$\Phi 14.5$	10.0	M 12 x 1.75-6g	RL9120-XXX		

RADLOK™ Feed Thru Pin



RADLOK™ Feed Thru Pin Data

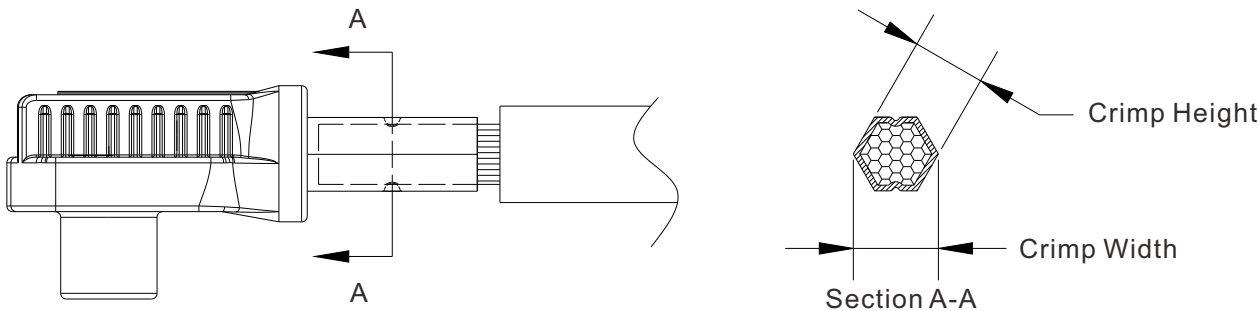
RADLOK™ Pin Size(mm)	Current (A)	RADLOK™ Feed Thru Pin Size (mm)							Ordering Number (XXX for Plating)	Plating (XXX)	
		W	M	L	K	F	P	Thread			
3.6	70	22.0	12.0	36.1	$\Phi 12.0$	$\Phi 12.5$	M3	M 3 x 0.5-6g	RL9036-XXX-F1	101	Silver
5.7	120	26.0	16.0	40.4	$\Phi 15.0$	$\Phi 15.5$	M4	M 6 x 1.0-6g	RL9057-XXX-F1	102	Tin
8.0	200	30.0	20.0	46.3	$\Phi 19.0$	$\Phi 19.5$	M4	M 8 x 1.25-6g	RL9080-XXX-F1	103	Nickel
10.0	300	35.0	24.0	52.5	$\Phi 22.0$	$\Phi 22.5$	M4	M 10 x 1.5-6g	RL9100-XXX-F1		
10.3	350	35.0	24.0	52.5	$\Phi 22.0$	$\Phi 22.5$	M4	M 10 x 1.5-6g	RL9103-XXX-F1		
12.0	400	38.0	30.0	58.7	$\Phi 24.5$	$\Phi 25.0$	M4	M 12 x 1.75-6g	RL9120-XXX-F1		

Ordering example

RADLOK™	RL	9	080	-	101	-	F1
Terminal Type	:	Pin					
RADLOK™ Pin Size	:	Diameter 8mm					
Plating	:	Silver					
Pin Type	:	Feed Thru Pin					

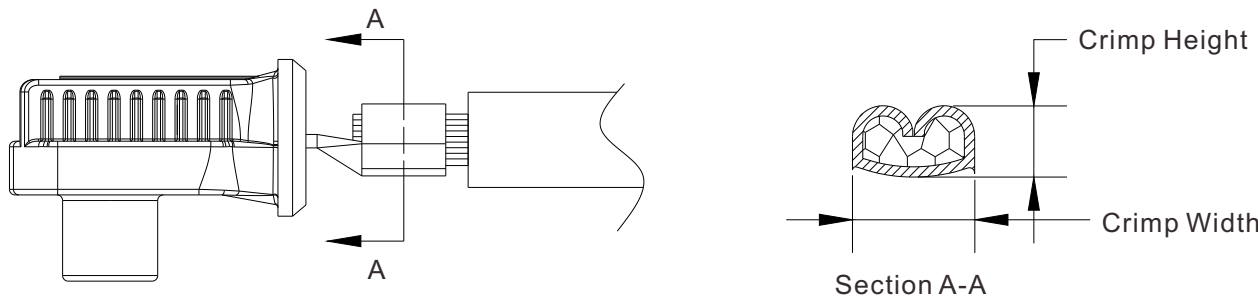
RADLOK™ Crimping Specification

RADLOK™ Connector Crimping Specification (Tubular Version)



Ordering Number	Wire Size (mm ²)	Crimp Height (mm)	Crimp Width (mm)	Pullout Force (N)
RL00361-35	10	5.1±0.5	5.5±0.3	900
RL00571-35	25	8.0±0.5	8.8±0.5	1900
RL00801-35	35	8.8±0.5	11.5±0.5	2200
RL00801-50	50	11.3±0.5	12.8±0.5	2700
RL01001-70	70	13.2±0.5	14.0±0.5	3300
RL01001-95	95	15.0±0.5	17.0±0.5	3700
RL01201-120	120	17.0±0.5	18.8±0.5	4000

RADLOK™ Connector Crimping Specification (Stamped Version)



Ordering Number	Wire Size (mm ²)	Crimp Height (mm)	Crimp Width (mm)	Pullout Force (N)
RL00362-35	10	5.0±0.5	7.4±0.5	900
RL00572-35	25	7.2±0.5	10.9±0.5	1900
RL00802-35	35	8.9±0.5	12.5±0.5	2200
RL00802-50	50	10.3±0.5	13.2±0.5	2700
RL01002-70	70	12.4±0.5	18.6±0.5	3300
RL01002-95	95	13.7±0.5	19.0±0.5	3700
RL01202-120	120	18.2±0.5	22.5±0.5	4000

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

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