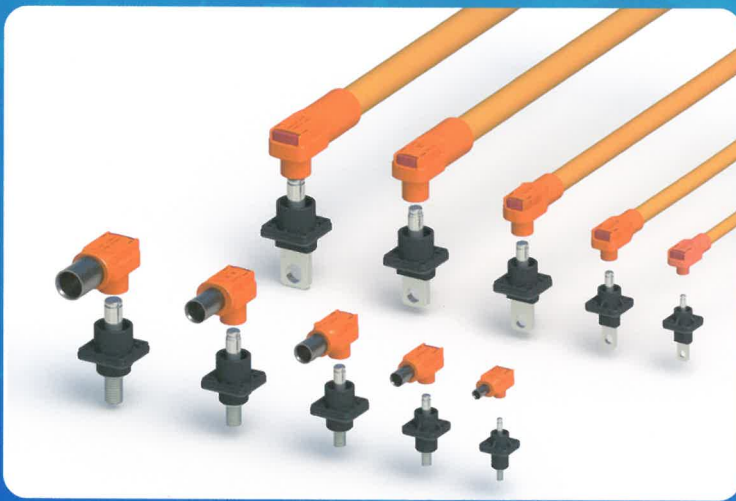




Amphenol

Battery Interconnect System
电池连接系统

Amphenol
TP

Amphenol Technical Products International Co.

公司简介 About Amphenol-TPI



Amphenol创立于1932年，为全球最大连接器制造商之一。

Amphenol主要为各行业提供连接解决方案并提供互连产品。包括：航空及军用连接器解决方案、汽车工业连接解决方案、铁路工业连接解决方案、无线通讯连接解决方案、互联网连接器解决方案、宽带通讯连接解决方案、通用工业连接解决方案等。Amphenol具有全面的产品线，成千上万种连接器产品应用于通信及信息处理领域；航空领域、军用领域、汽车领域、铁路领域及其它交通和通用工业领域等。Amphenol在全球实施本地化战略，共在全球设立了80多间工厂及100多个销售办事处，直接为各大洲的客户提供产品和实施本地化服务。

ATPI 是安费诺集团位于加拿大温尼伯的全资子公司，ATPI广州是ATPI设在中国的分支机构。

Amphenol was founded in 1932, is one of the world's largest connector manufacturer.

Amphenol is mainly for various industries to provide connection solutions and provide interconnect products. Include. aviation and military connector solutions, the automotive industry solutions, railway industrial link solution, wireless communication solutions, Internet connector solution, broadband communications link solution, general industrial solutions such as Amphenol has a comprehensive product line, tens of thousands of kinds of connector products applied in the field of communications and information processing; Aviation, military areas, automobile industry, railway and other transportation and general industrial sectors and so on. Amphenol implement localization strategy in the whole world, set up more than 80 factories in the world and more than 100 sales offices, directly to the continents of customers with products and the implementation of the localization service

ATPI – Amphenol Technical Products International Co. is a subsidiary of amphenol group based in Canada. ATPI-G – Amphenol Technical Products International (Guangzhou) Co. is a branch of ATPI based in China.

产品应用案例

电池系统连接



动力电池



超级电容

整车高压连接



整车高压01

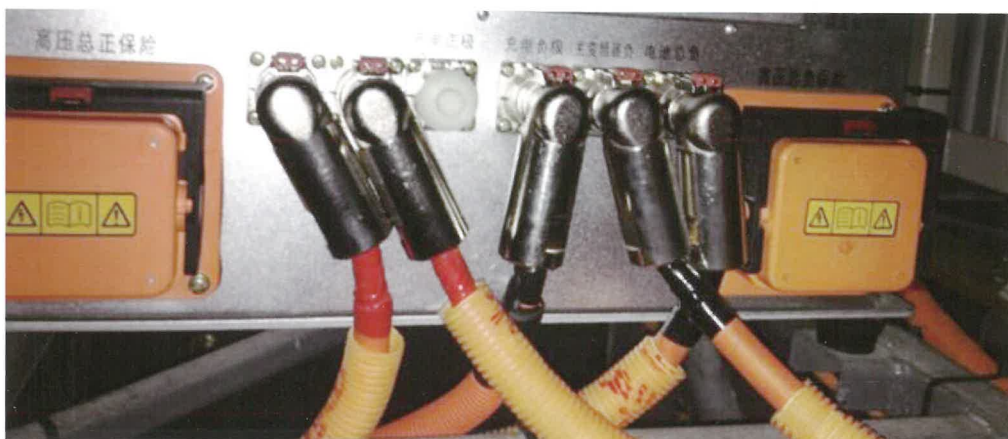


整车高压02



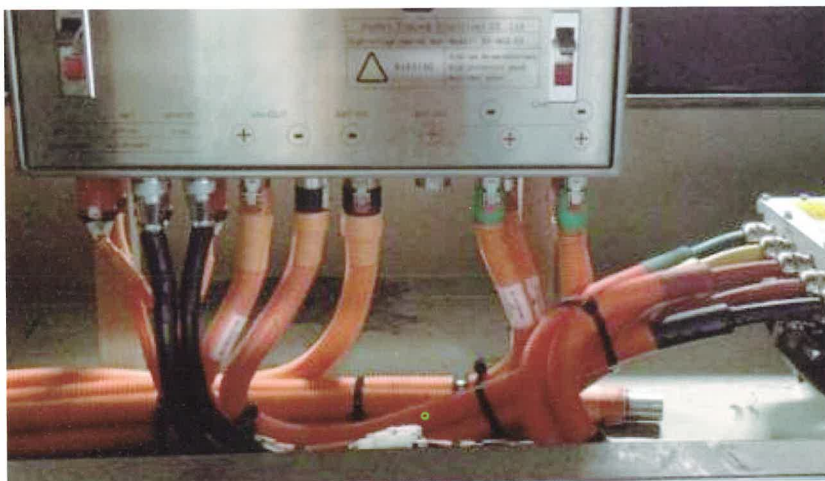
整车高压03

高压控制模块连接

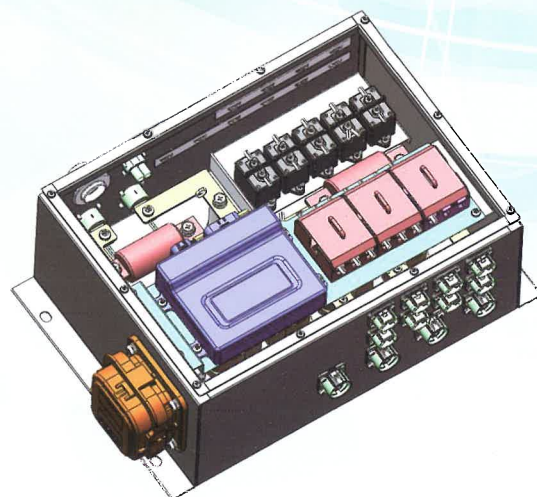


PDU 01

高压控制模块连接



PDU 02



PDU 03

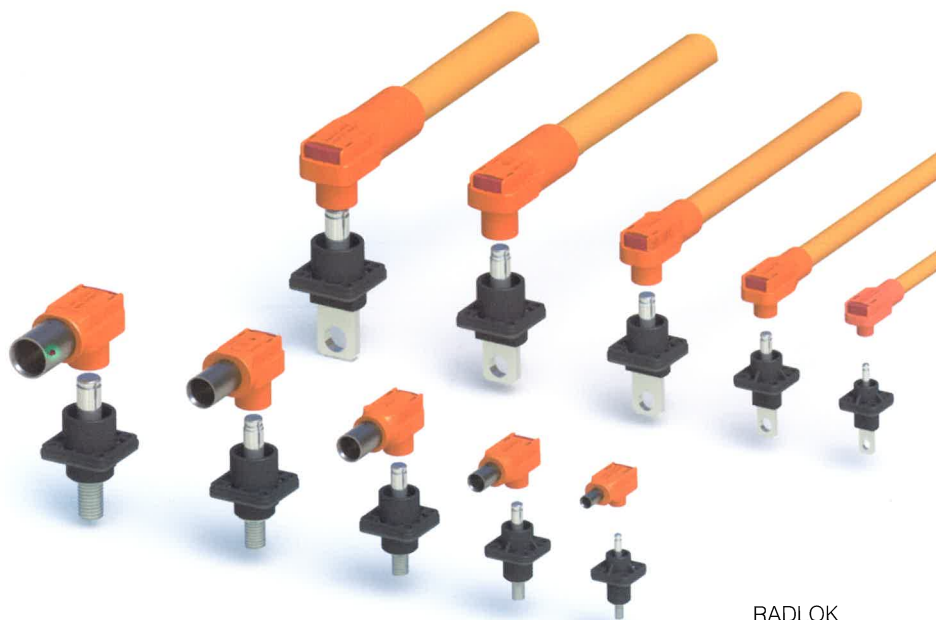
电池单元连接 Cell to Cell



Al Busbar

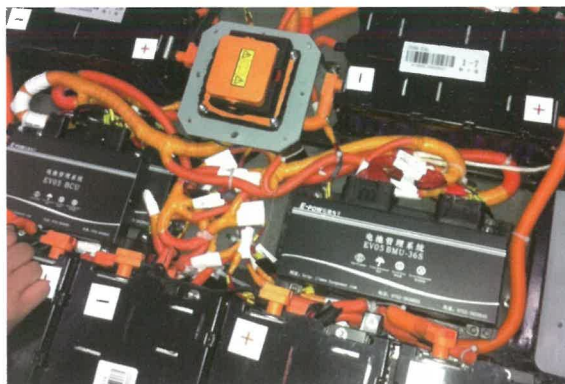


Copper Busbar



RADLOK

电池模组连接 Module to Module



电池组连接 Pack to Pack



PowerBus™

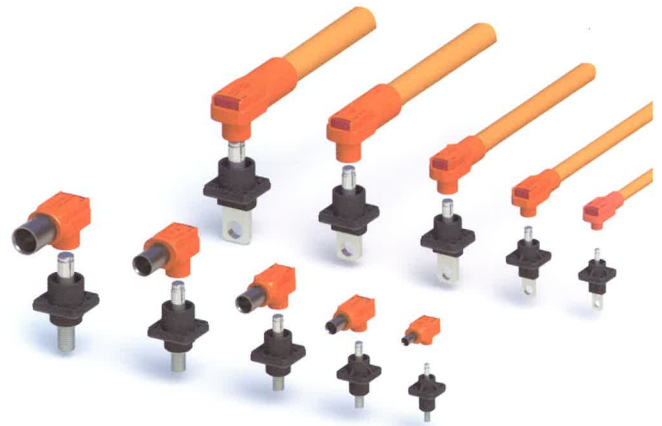
拥有丰富的设计、制造铜材或铝材汇流排经验，满足客户对产品柔性、耐弯折和可焊接的需求。

We have rich experience in the design and manufacturing of complex bus bar systems. Aluminium or copper, used for flexible, curved and welded elements also enable complex customer requirement to be satisfied.

**RADLOK™ 连接器**

RADLOK™ 系列连接器基于安费诺专利RADSOK® 端子进行开发、应用；RADLOK™产品具有体积小、经济、安装便利等特点，特别适用于电池内部。

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

**PowerPly™**

PowerPly™由柔软铜箔叠层形成带状电缆结构，应用于大电流传输领域，挤出成型的绝缘外被，适用于各种恶劣环境下的应用需求，高度柔软的性能特别适合在高度弯曲的狭小空间的应用。

应用Powerlug™成型工艺，线缆两端形成端子，可直接与RADSOK® 连接或者与RADLOK™结合使用，组成线束总成。

PowerPly™ is a High flex, Multi-layered laminated designed for high-current power distribution applications. Extruded insulated jacket to meet the harshest environments, extreme flexibility allows tight bend radius.

Can be configured with Fused PowerLug™ ends or supplied™ with Radsok® inserted or our innovative quick release RADLOK™ connection solution.



产品特点 Product Features

- 柔软性高
Extreme Flexibility
- 耐高电压
High Voltage
- 大电流
High Current Capacity Ability



应用领域 Applications

- 工业领域
Industry
- 纯电动 / 混合动力汽车
EV / HEV
- 储能系统
Energy Storage System
- 汽车动力电池
Power Battery

电气性能 Electric property

- 导体材料 / Conductor Material: Bare Copper
- 绝缘材料 / Insulation Material: XLPE
- 额定电压 / Voltage Rating: 1500VDC
- 额定温度 / Temperature Rating: -40°C ~ 125°C
- 耐压 / Withstand Voltage: 6000VDC / 5min

产品料号 P/N	导体大小 Size	导体结构 Conductor Structure (mm)	平均绝缘厚度 Insulation Av. Thickness (mm)	最小绝缘厚度 Insulation Min. Thickness (mm)	外表尺寸 Insulation Dimension (mm)
AC-CP000285	10mm ²	10/0.1×10	0.8	0.7	2.6×11.6
AC-CP000286	16mm ²	11/0.1×15	1.0	0.9	3.1×17.0
AC-CP000287	25mm ²	14/0.1×18	1.0	0.9	3.4×20.0
AC-CP000288	35mm ²	20/0.1×18	1.0	0.9	4.0×20.0
AC-CP000289	50mm ²	28/0.1×18	1.0	0.9	4.8×20.0
AC-CP000290	70mm ²	28/0.1×25	1.2	1.1	5.2×27.4
AC-CP000291	95mm ²	38/0.1×25	1.5	1.3	6.8×28.0
AC-CP000292	120mm ²	48/0.1×25	1.5	1.4	7.8×28.0
AC-CP000293	150mm ²	50/0.1×30	1.7	1.6	8.4×33.4

产品特点 Product Features

- 自带机械锁紧机构
Tool-Free Mechanical Locking
- 耐插拔
High Cycle Durability
- RoHS 合规
RoHS Compliant
- 良好的载流能力
High Current Capacity Ability

应用领域 Applications

- 智能电网储能系统
Energy Storage System
- 配电装置
Power Distribution Unit
- 电池系统
Battery System

RADLOK™ Recommended Cable Size & Current

RADSOK® Size(mm)	Recommended Cbl (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	350
14.0	135	450
	150	500

RADLOK™ 线束总成

RADLOK™ Cable Assembly



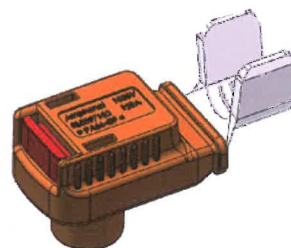
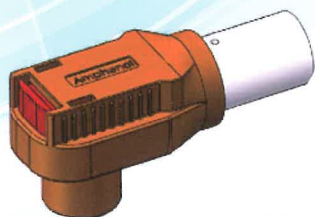
RADLOK™ Cable Assembly Ordering Information

Product Type	(A) Termination Type	(B) RADSOK Size	(S) Cable Size	(L) Length	(E) Connector Color	(M) Stud S
Ri. RADLOK™	1 RADLOK™+RADLOK™	036 3.6	Refer to "RADLOK™ Recommended Cable Size & Current" Chart	L+Length	Blank for Orange	N/A
	2 RADLOK™+PowerLug	057 5.7			BK Black	*M/E+Stud
	3 RADLOK™+PowerLug45 Degree	080 8.0			RE Red	*M/E+Stud
	4 RADLOK™+Lug Terminal	100 10.0				*M/E+Stud
	5 RADLOK™+Ring Terminal	120 12.0				*M/E+Stud
	6 RADLOK™+Blunt Cut	140 14.0				N/A
	7 RADLOK™+Stripped					Stripped Length
	8 RADLOK™+RADLOK™		PowerPly			

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 Information

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									



RADLOK™ Connector Ordering Information

Product Type		(A) Termination Type		(B) RADSOK® Size		(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					
				120	12.0					
				140	14.0					

Ordering Information

RL 0 - 080 1 - 35 BK

RADLOK™

(A) Termination Type: RADLOK™ Connector

(B) RADSOK® Size : Diameter 8mm

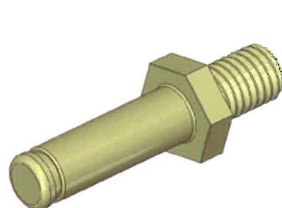
(C) Lug Type : Tubular

(S) Cable Size : 35mm²

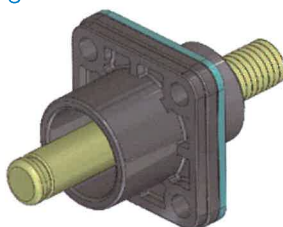
(E) Connector Color : Black

RADLOK™ 插针及过孔插针

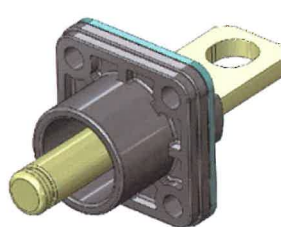
RADLOK™ Pin & Feed Through Pin



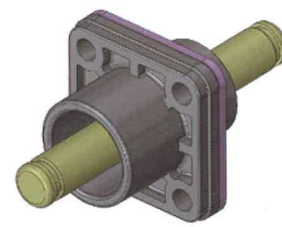
RADLOK™ 插针
RADLOK™ Pin



RADLOK™ 过孔插针 (插针-螺柱)
RADLOK™ Feed Thru Pin (Pin-Thread)



RADLOK™ 过孔插针 (插针-铜排)
RADLOK™ Feed Thru Pin (Pin-Lug)



RADLOK™ 过孔插针 (插针-插针)
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 Orange	
RL	RADLOK™	9	RADLOK™ Pin	036	3.6	10	Thread	1	Silver		Blank for Standard Pin	BK	Black
				057	5.7	20	Lug	2	Tin	F1	Feed Thru Pin	RE	Red
				080	8.0	30	Pin	3	Nickel				
				100	10.0								
				120	12.0								
				140	14.0								

Ordering Information

RL 9 - 080 - 10 - 1 F1 BK

RADLOK™

(A) Termination Type : Pin

(B) RADLOK™ Pin Size : Diameter 8mm

(C) RADLOK™ Pin End : Thread

(D) Plating : Silver

(E) Pin Type : Feed Thru Pin

(F) Plastic color : Black

Amphenol

技术支持和客户服务

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