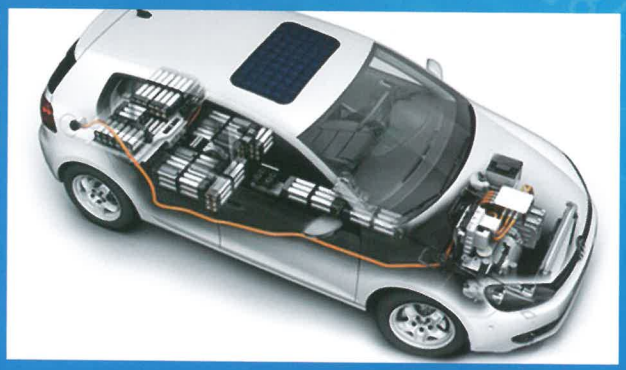
Amphenol

Vehicle Interconnect System
整车连接系统



RADLOK PowerLok PowerLink PowerBus PowerLug

RADLOK PowerLok PowerLink PowerBus PowerLug

RADLOK PowerLok PowerLink PowerBus PowerLug

Amphenol

TPI

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。

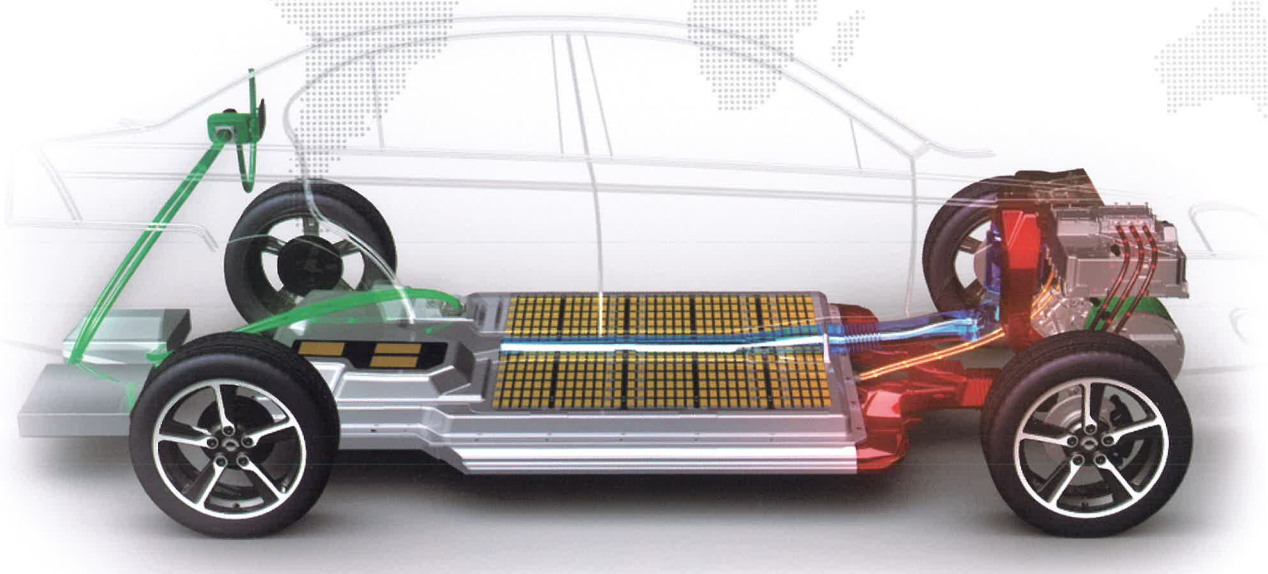
Amphenol主要为各行业提供连接解决方案并提供互连产品。包括：航空及军用连接器解决方案、汽车工业连接解决方案、铁路工业连接解决方案、无线通讯连接解决方案、互联网连接器解决方案、宽带通讯连接解决方案、通用工业连接解决方案等 Amphenol具有全面的产品线，成千上万种连接器产品应用于通信及信息处理领域；航空领域、军用领域、汽车领域、铁路领域及其它交通和通用工业领域等。Amphenol在全球实施本地化战略，共在全球设立了80多间工厂及100多个销售办事处，直接为各大洲的客户提供产品和实施本地化服务。

ATPI 是安费诺集体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。

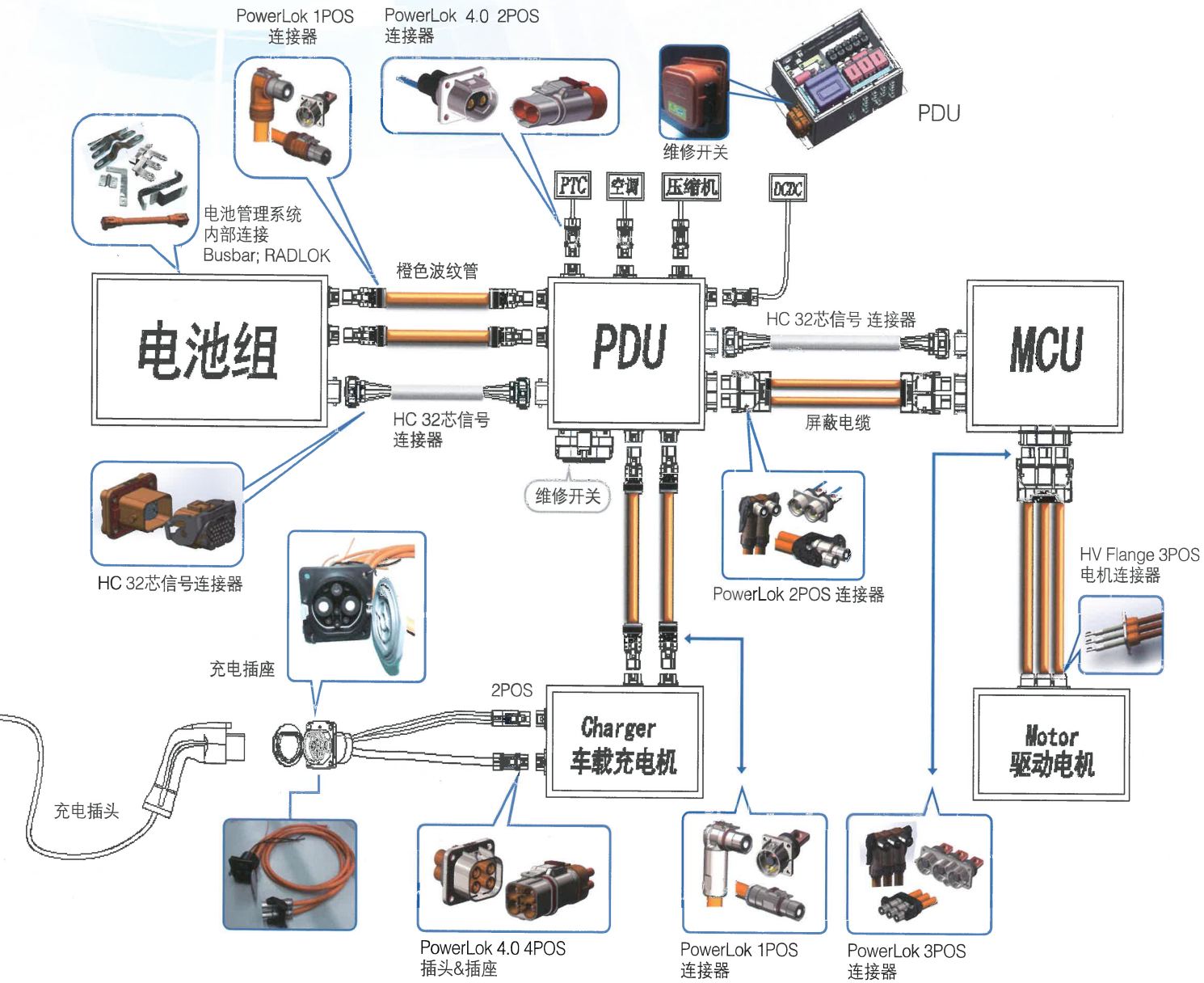
Amphenol was founded in 1932, is one of the world's largest connector manufacturer.

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, broad–band communications link solution, general industrial solutions such as Amphenol has a compre–hensive product line, tens of thousands of kinds of connector products applied in the field of com–munications 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 localiza–tion 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.



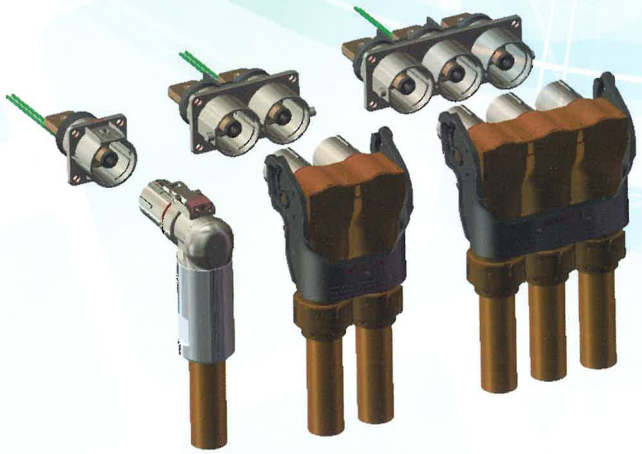
整车应用
Vehicle Application



PowerLok™ 连接器
PowerLok™ Connector

安费诺PowerLok™产品运用了最新安费诺RADSOK®技术，是对于混合动力汽车和纯电动汽车行业里，需要可靠的、可定制的、易于安装的、节约成本的连接器现状的最佳解决方案。 PowerLok™产品具备了防水屏蔽，二级锁扣，高压互锁，多种极性等设计特点。

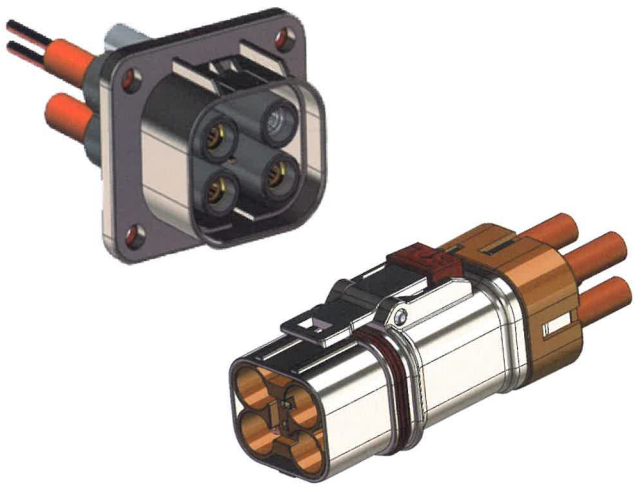
Utilizing Amphenol latest RADSOK® technology, Amphenol PowerLok™ product is the answer to HEV/EV where a custom, reliable, easy to install, and cost effective solution is required. PowerLok™ has many features：fully shielding, Automatic Secondary Lock, HVIL optional , Multi Polarization.



PowerLok™4.0 连接器
PowerLok™4.0 Connector

安费诺PowerLok™ 4.0 连接器是针对电动汽车中小电流应用推出的一款方案。在附带PowerLok™ 产品全部优势的同时，该产品的2芯或4芯紧密型设计能更好适应狭小空间的应用。

Amphenol PowerLok™4.0 Connector is designed for EV’s medium and small current application. In the supplementary PowerLok™ product all advantages at the same time, the 2 & 4 position small size design can be adapt to the application in narrow space better.



PowerLok™ 塑料连接器
PowerLok™ Plastic Connector

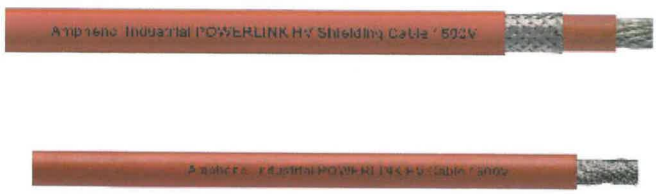
安费诺PowerLok™ 塑料连接器是PowerLok™ 产品中低成本的方案。该产品的特色在于360度可旋转设计和塑料低成本设计。

Amphenol PowerLok™ plastic connector is PowerLok™ products of low cost solutions. The characteristics of this product is 360 degree rotating design and plastic low cost design.

POWERLINK™ 电缆
POWERLINK™ Cable

安费诺POWERLINK™高压电缆可用于有高温度/防油/阻燃要求的环境。该线缆具备高电压、柔韧、电磁屏蔽等特点，应用在电动汽车、混合动力汽车、燃料电池汽车、电池储能等领域。

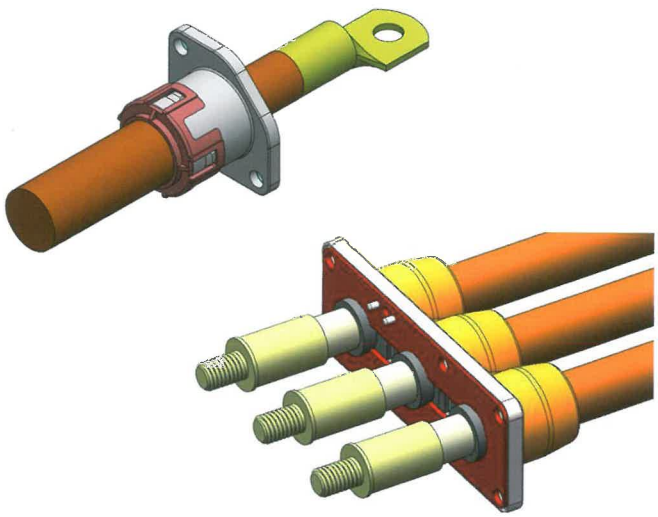
Amphenol POWERLINK™ HV Cable are used in high temperature / oil / flame-resistance requirements condition. High voltage, flexible, electromagnetically shielded automotive cable for applications on EV, HEV, FCEV, Battery and Energy Storage wiring systems.



HV Flange™
HV Flange Conncetor

安费诺HV Flange™ 连接器是针对无插拔要求的应用而设计的低成本的方案。该产品的特点在于移除了插头和插座，二级锁扣及高压互锁设计，降低了产品的成本。

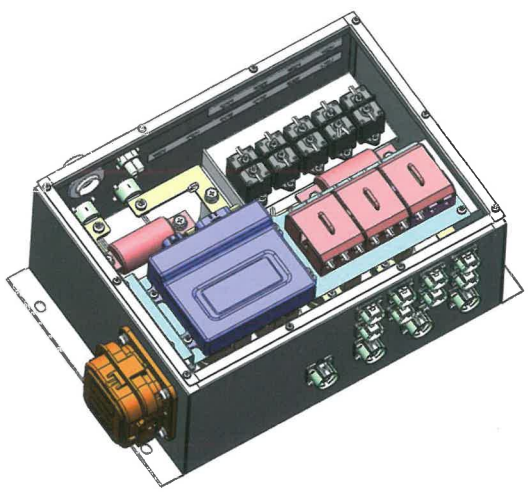
Amphenol HV Flange™ connector is designed for some Non-pluggable requirement application. The characteristics of this product is we removed the plug and receptacle, automatic secondary lock and HVIL design, then reduced the cost.



电源分配单元
Power Distribution Unit

高压电气控制单元。它包括盒体和盒盖,盒体内设有电机电源控制系统、空调电源控制系统、充电机电源控制系统、电池包控制系统和直流转化装置电源控制系统。

High voltage electrical control unit. It comprises a box body and a box cover, the box body is provided with a motor power supply control system, air conditioning control system for power supply, battery pack charger power control system, control system and DC power conversion device control system.



产品特点 Product Features

- 高压互锁 / HVIL
- IP67及屏蔽 / IP67 & Shielding
- 二次锁口 / Automatic Secondary Lock
- 1-3芯可选 / 1-3Positions Available
- 90度及180度插头 / 90 D and 180 D plug
- 5种键位 / 5Keys

应用领域 Applications

- 新能源电动汽车 New Energy Electric Vehicles
- 变频器 / Frequency Converter
- 逆变器 / Inverter
- 电池连接 / Battery Connection

技术参数 Technical Data

DC Current Rating	90-500A
DC Voltage Rating	1000V
Temperature Range	-40° C to +125° C
Flammability	UL94 V-0
Mating Cycle	Min. 50
Mutil Polarization	5 Keys

PowerLok Recommended Cable Size & Current Rating

Current Rating of Connector(A)	Accepted Cbl Size(mm)²	Current Rating of Cable(A)
120 Series	16	90
	25	120
200 Series	35	150
	50	200
300 Series	35	150
	50	200
	70	250
400 Series	95	300
	120	350
	135	400
500 Series	120	350
	135	400
	150	500

PowerLok 连接器插头 / PowerLok Connector Plug

单芯180° 组装式插头
1POS 180D Plug Connector

2芯180° 组装式插头
2POS 180D Plug Connector

3芯180° 组装式插头
3POS 180D Plug Connector

单芯180° 注塑式插头
1POS 180D Overmolded Plug

2芯180° 注塑式插头
2POS 180D Overmolded Plug

单芯90° 组装式插头
1POS 90D Plug Connector

2芯90° 组装式插头
2POS 90D Plug Connector

3芯90° 组装式插头
3POS 90D Plug Connector

单芯90° 注塑式插头
1POS 90D Overmolded Plug

2芯90° 注塑式插头
2POS 90D Overmolded Plug

PowerLok插头选型信息 PowerLok Plug Ordering Information

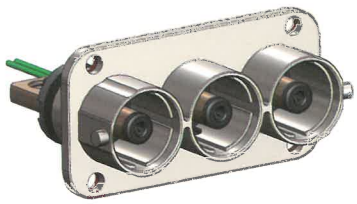
选型例子 Order Example: PL 10 X - 301 - 70

Product Type		(A) Plug Type		(B) Polarization		(C) Series		(D) Cable Size(mm²)
PL	PowerLok™	10	Overmolded Cble Assembly, Straight	X	1POS,Key "X" Orange	120	120 Series	Refer to "PowerLok™ Recommended Cable Size & Current Rating"
		20	Overmolded Cble Assembly, Right Angle	Y	1POS,Key "Y" Black	121	120 Series with HVIL	
		18	Plug Connector, Straight	U	1POS,Key "U" Yellow	200	200 Series	
		28	Plug Connector,Right Angle	V	1POS,Key "V" Green	201	201 Series with HVIL	
				W	1POS,Key "W" Red	300	300 Series	
				2X	2POS,Key "X"	301	300 Series with HVIL	
				2Y	2POS,Key "Y"	400	400 Series	
				3X	3POS,Key "X"	401	401 Series with HVIL	
				3Y	3POS,Key "Y"	500	500 Series	
						501	500 Series with HVIL	

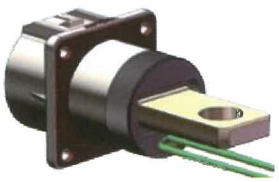
PowerLok 连接器插座
PowerLok Connector Receptacle

单芯插座
1POS Receptacle

2芯插座
2POS Receptacle



3芯插座
3POS Receptacle



终端形式：铜排
Termination Type: Lug

终端形式：螺柱
Termination Type: Thread Bolt

终端形式：铜管
Termination Type: Crimping Lug

终端形式：90D铜排
Termination Type: 90D Lug

PowerLok连接器插座选型信息
PowerLok Receptacle Ordering Information

选型例子
Order Example

PL 30 X – 301 – 10 M10

Product Type		(A) Connector Type		(B) Polarization &(Touch Proof Cover) color		(C) Series		(D) Termination Type		(E) Termination Size	
PL	PowerLok™	00	1 POS Receptacle	X	Key "X" , Orange	120	120 Series	10	Lug	M+Stud Size	Screw Hole
		08	2 POS & 3 POS Receptacle	Y	Key "Y" , Black	121	120 Series with HVIL	20	Thread Pin	D+Stud Size	Throughe Hole
				U	Key "U" , Yellow	200	200 Series	30	Crimping Lug	M+Thread Size	Thread Size
				V	Key "V" , Green	201	201 Series with HVIL	90	90D Lug		
				W	Key "W", Red	300	300 Series				
				2X	2POS,Key "X"	301	300 Series with HVIL				
				2Y	2POS,Key "Y"	400	400 Series				
				3X	3POS,Key "X"	401	401 Series with HVIL				
				3Y	3POS,Key "Y"	500	500 Series				
						501	500 Series with HVIL				

产品特点 Product Features

- 高压互锁 / HVIL
- IP67及屏蔽 / IP67 & Shielding
- 二次锁口 / Automatic Secondary Lock
- 2&4芯可选 / 2&4Positions Available
- 90度及180度插头 / 90 D and 180 D plug

技术参数 Technical Data

DC Current Rating	20 A~60 A
DC Voltage Rating	1000V
Temperature Range	-40° C to +125° C
Flammability	UL94 V-0
Mating Cycle	Min. 50
Mutil Polarization	3 Keys

应用领域 Applications

- 电池连接 / Battery Connection
- 新能源电动汽车 / New Energy Electric Vehicles
- 变频器 / Frequency Converter
- 大型开关柜 / Large Switichgear

PowerLok 4.0 二芯连接器 PowerLok 4.0 2POS Connector

2芯插座
2POS Receptacle

2芯插头
2POS Plug

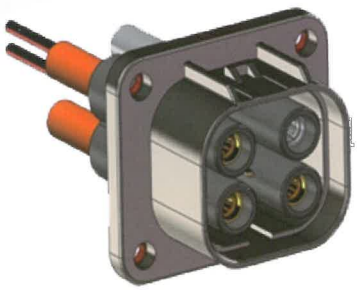
PowerLok P4连接器选型信息 PowerLok P4 Connector Ordering Information

选型例子 Order Example

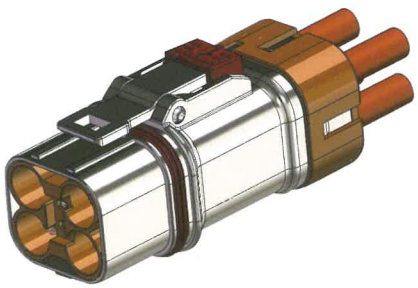
PL 182 X - 61 - 4

(A) Product Type		(B) Connector Type		(C) Polarization & color		(D) Series		(E) Accepted Cable Size		
								Cable Size		Current Rating
PL	PowerLok™	082	2POS Receptacle	X	Key "X" , Orange	60	60 Series	2.5	2.5mm²	25A
		182	2POS Plug , Straight	Y	Key "Y" , Black	61	60 Series with HVIL	4	4mm²	40A
				U	Key "U" , Yellow			6	6mm²	45A
								10	10mm²	60A

PowerLok 4.0 四芯连接器
PowerLok 4.0 POS Connector



4芯插座
4POS Receptacle



4芯插头
4POS Plug

PowerLok P4 连接器选型信息
PowerLok P4 Connector Ordering Information

选型例子
Order Example

PL 182 X – 61 – 4

(A) Product Type		(B) Connector Type		(C) Polarization & color		(D) Series		(E) Accepted Cable Size		
								Cable Size		Current Rating
PL	PowerLok™	024	4POS Receptacle	X	Key "X" , Orange	40	40 Series	2.5	2.5mm²	25A
		184	4POS Plug , Straight	Y	Key "Y" , Black	41	40 Series with HVIL	4	4mm²	40A
				U	Key "U" , Yellow			6	6mm²	45A

产品特点 Product Features

- 360° 旋转 / 360 degree rotatable
- 塑料低成本 / Plastic Low Cost
- IP67 保护 / IP67 Protection
- 二次锁扣 / Automatic Secondary Lock
- 90度及180度插头 / 90 D and 180 D plug

技术参数 Technical Data

DC Current Rating	90 A~300 A
DC Voltage Rating	1000V
Temperature Range	-40° C to +125° C
Flammability	UL94 V-0
Mating Cycle	Min. 50
Mutil Polarization	5 Keys

应用领域 Applications

- 电池连接 / Battery Connection
- 新能源电动汽车 / New Energy Electric Vehicles
- 变频器 / Frequency Converter
- 大型开关柜 / Large Switichgear

Recommended Cable Size & Current Rating

Current Rating of Connector(A)	Accepted Cbl Size (mm^2)	Current Rating of Cable(A)
120 Series	16	90
	25	120
200 Series	35	150
	50	200
300 Series	35	150
	50	200
	70	250
	95	300

PowerLok 塑料连接器插头 PowerLok Plastic Connector Plug

塑料直角插头
Plastic Plug, Right Angle

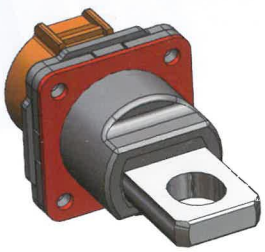
塑料直头插头
Plastic Plug, Straight

PowerLok 塑料连接器选型信息 PowerLok Plastic Connector Ordering Information

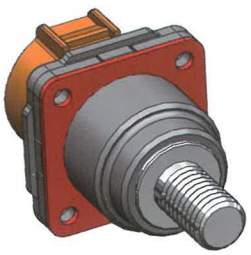
选型例子 Order Example: PL 50 X – 120 – 25

Product Type		(A) Plug Type		(B) Polarization		(C) Series		(D) Cable Size(mm^2)
PL	PowerLok™	40	Overmolded Cble Assembly, Straight	X	1 POS ,Key "X" Orange	120	120 Series	Refer to "PowerLok™ Recommended Cable Size & Current Rating" Chart
		50	Overmolded Cble Assembly, Right Angle	Y	1 POS ,Key "Y" Black	200	200 Series	
				U	1 POS ,Key "U" Yellw	300	300 Series	
				V	1 POS ,Key "V" , Green			
				W	1 POS ,Key "W", Red			

PowerLok 塑料连接器插座
PowerLok Plastic Connector Receptacle

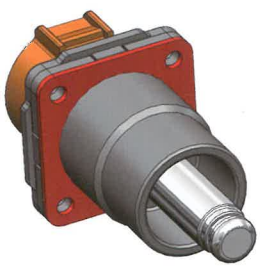


终端形式：铜排
Termination Type: Busbar

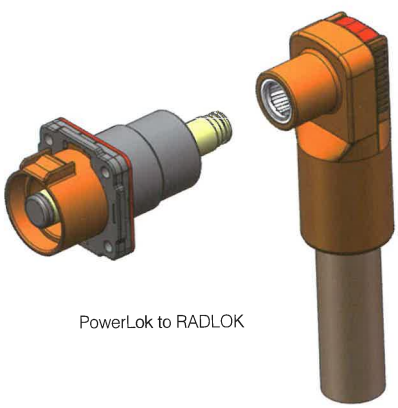


终端形式：螺柱
Termination Type: Thread Bolt

终端形式：铜管
Termination Type: Tubular Lug



终端形式：RADLOK端子
Termination Type: RADLOK Pin



PowerLok to RADLOK

PowerLok 塑料连接器选型信息
PowerLok Plastic Connector Ordering Information

选型例子
Order Example

PL 30 X – 300 – 10 M10

Product Type		(A) Connector Type		(B) Polarization &(Touch Proof Cover) color		(C) Series		(D) Termination Type		(E) Termination Size	
PL	PowerLok™	30	1 POS Receptacle	X	Key "X" , Orange	120	120 Series	10	Busbar	M+Stud Size	Screw Hole
				Y	Key "Y" , Black	200	200 Series	20	Thread Pin	D+Stud Size	Throughe Hole
				U	Key "U" , Yellow	300	300 Series	30	Lug	M+Thread Size	Thread Size
				V	Key "V" , Green			40	Pin	R+Pin Size	Pin Size
				W	Key "W", Red						

产品名 Production Name

POWERLINK™ 高压屏蔽电缆/POWERLINK™ HV Shielding Cable

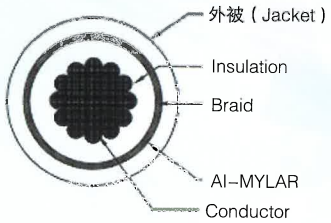
POWERLINK™ 高压屏蔽电缆
POWERLINK™ HV Shielding Cable

材料 Material

- 导体–裸铜 / Conductor – Bare Copper
- 绝缘–橘色XLPE / Insulation – XLPE Orange
- 屏蔽–铝箔麦拉 / Shielding – AL–MYLAR
- 外被–橘色XLPE / Jacket – XLPE Orange

RoHS和REACH法规符合/RoHS and REACH Compliant

标准Standard: ISO 6722 Class C 125



产品特点 Product Features

- 高压高电流可靠 / Reliable to high–voltage & current conditions
- 柔软易安装 / Flexible and easy to handle for harnessing
- 外径2.5 mm^2 至150 mm^2 / Range from 2.5 mm^2 to 150 mm^2
- 电磁屏蔽 / Excellent EMI, EMC noise reduction

应用领域 Applications

- 电动汽车，混合动力汽车，燃料电池汽车
  EV, HEV, FCEV

结构尺寸/Construction & Dimensions

料号 P/N	导体截面积 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)	芯线外径 Dia Primary Insulation (mm)	护套厚度 Sheath Thickness (mm)	线缆外径 Nom Dia Outside (mm)	弯曲半径 Bending Radius
AC-CP710020	2.5mm^2	124/0.16	0.6	0.44	3.30± 0.2	0.6	5.2± 0.2	≥ 4 X OD
AC-CP710040	4mm^2	199/0.16	0.6	0.44	4.10± 0.2	0.6	5.8± 0.2	≥ 4 X OD
AC-CP710060	6mm^2	298/0.16	0.6	0.44	4.80± 0.2	0.6	6.7± 0.3	≥ 4 X OD
AC-CP710100	10mm^2	497/0.16	0.8	0.62	6.25± 0.2	0.8	8.6± 0.3	≥ 4 X OD
AC-CP710160	16mm^2	796/0.16	1.0	0.80	8.10± 0.2	1.3	11.2± 0.3	≥ 4 X OD
AC-CP710250	25mm^2	1244/0.16	1.3	1.04	10.20± 0.2	1.3	13.5± 0.3	≥ 5 X OD
AC-CP710350	35mm^2	1743/0.16	1.3	1.04	11.50± 0.3	1.3	14.5± 0.5	≥ 5 X OD
AC-CP710500	50mm^2	2492/0.16	1.5	1.20	13.60± 0.3	1.4	17.0± 0.5	≥ 5 X OD
AC-CP710700	70mm^2	3486/0.16	1.5	1.20	15.50± 0.3	1.5	19.5± 0.5	≥ 5 X OD
AC-CP710950	95mm^2	4732/0.16	1.8	1.52	18.20± 0.5	1.5	22.6± 0.5	≥ 5 X OD
AC-CP711200	120mm^2	5985/0.16	1.9	1.61	20.20± 0.5	1.5	24.6± 0.5	≥ 6 X OD
AC-CP711500	150mm^2	7467/0.16	2.1	1.79	22.50± 0.5	1.6	27.1± 0.5	≥ 6 X OD

特征 / Characteristics

Item	Characteristics	
Rating Voltage	1500V DC	
Conductor Resistance(Max.)Ω /km@20°C	7.600Ω /km (2.5 mm^2)	0.527Ω /km (35 mm^2)
	4.710Ω /km (4 mm^2)	0.368Ω /km (50 mm^2)
	2.890Ω /km (6 mm^2)	0.259Ω /km (70 mm^2)
	1.820Ω /km (10 mm^2)	0.196Ω /km (95 mm^2)
	1.160Ω /km (16 mm^2)	0.153Ω /km (120 mm^2)
	0.743Ω /km (25 mm^2)	0.129Ω /km (150 mm^2)
Temperature Rating	-40°C to +125°C	
Flame Test	VW-1	
Withstand Voltage	6000V / 5min	
Oil Resistant Acid and Alkali Resistant		

产品名 Production Name

POWERLINK™ 高压电缆/POWERLINK™ HV Cable

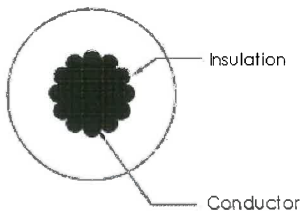
POWERLINK™ 高压电缆
POWERLINK™ HV Cable

材料 Material

- 导体– 裸铜/Conductor – Bare Copper
- 绝缘– 橘色XLPE/Insulation – XLPE Orange

RoHS和REACH法规符合/ RoHS and REACH Compliant

标准Standard: ISO 6722 Class C 125



产品特点 Product Features

- 高压高电流可靠/Reliable to high–voltage & current conditions
- 柔软易安装/Flexible and easy to handle for harnessing
- 外径2.5 mm² 至150 mm² /Range from 2.5 mm² to 150 mm²

应用领域 Applications

- 电池，储能系统
  Battery, Energy Storage

结构尺寸/Construction & Dimensions

料号 P/N	导体截面积 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)	芯线外径 Dia Primary Insulation (mm)	弯曲半径 Bending Radius
AC-CP700020	2.5mm²	124/0.16	0.6	0.44	3.30± 0.2	≥ 3 X OD
AC-CP700040	4mm²	199/0.16	0.6	0.44	4.10± 0.2	≥ 3 X OD
AC-CP700060	6mm²	298/0.16	0.6	0.44	4.80± 0.2	≥ 3 X OD
AC-CP700100	10mm²	497/0.16	0.8	0.62	6.25± 0.2	≥ 3 X OD
AC-CP700160	16mm²	796/0.16	1.0	0.80	8.10± 0.2	≥ 3 X OD
AC-CP700250	25mm²	1244/0.16	1.3	1.04	10.20± 0.2	≥ 4 X OD
AC-CP700350	35mm²	1743/0.16	1.3	1.04	11.50± 0.3	≥ 4 X OD
AC-CP700500	50mm²	2492/0.16	1.5	1.20	13.60± 0.3	≥ 4 X OD
AC-CP700700	70mm²	3486/0.16	1.5	1.20	15.50± 0.3	≥ 4 X OD
AC-CP700950	95mm²	4732/0.16	1.8	1.52	18.20± 0.5	≥ 4 X OD
AC-CP701200	120mm²	5985/0.16	1.9	1.61	20.20± 0.5	≥ 5 X OD
AC-CP701500	150mm²	7467/0.16	2.1	1.79	22.50± 0.5	≥ 5 X OD

特征 / Characteristics

Item	Characteristics	
Rating Voltage	1500V DC	
Conductor Resistance(Max.)Ω /km@20°C	7.600Ω /km (2.5 mm²)	0.527Ω /km (35 mm²)
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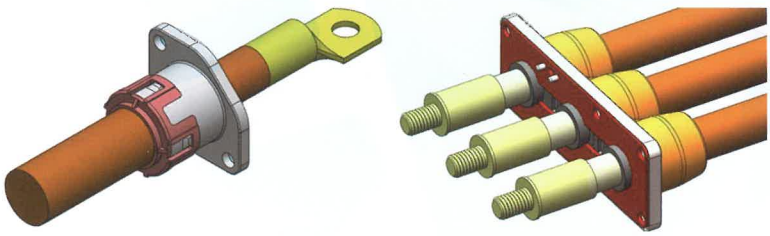
Temperature Rating	-40°C to +125°C	
Flame Test	VW-1	
Withstand Voltage	6000V / 5min	
Oil Resistant Acid and Alkali Resistant		

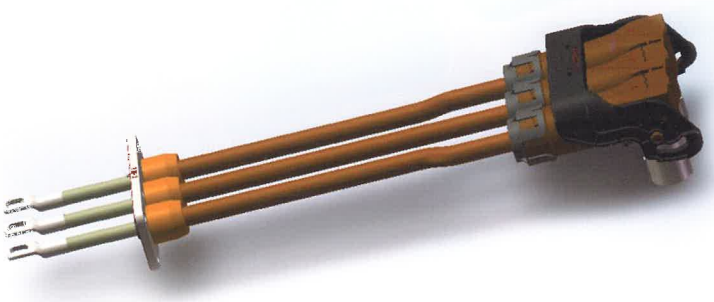
产品特点 Product Features

- IP67保护 / IP67 Protection
- 屏蔽 / Shielding
- 1–3芯可选 / 1–3 positions Available
- 一体成型 / Integrated Design



应用领域 Applications

- 电池连接 / Battery Connection
- 新能源电动汽车 / New Energy Electric Vehicles
- 电动机 / Electric Motor



技术参数 Technical Data

DC Current Rating	20 A~60 A
DC Voltage Rating	1000V
Temperature Range	-40° C to +125° C
Flammability	UL94 V-0

Recommended Cable Size & Current Rating

Series	Recommended Cbl Size (mm^2)	Current Rating of Cable(A)
06 Series	16	90
	25	120
08 Series	30	150
	50	200
10 Series	70	250
	95	300

HV Flange 连接器选型信息
HV Flange Connector Ordering Information

选型例子 Order Example: HV3 3 - 06 - 25

(A) Product Type		(B) Connector Type		(B) Polarization		(D) Cable Size(mm^2)
HV3	HV Flange ™	1	1 POS	06	6mm	Refer to "PowerLok™ Recommended Cable Size & Current Rating" Chart
		2	2 POS	08	8mm	
		3	3 POS	10	10mm	

产品应用案例

电池系统连接

动力电池

超级电容

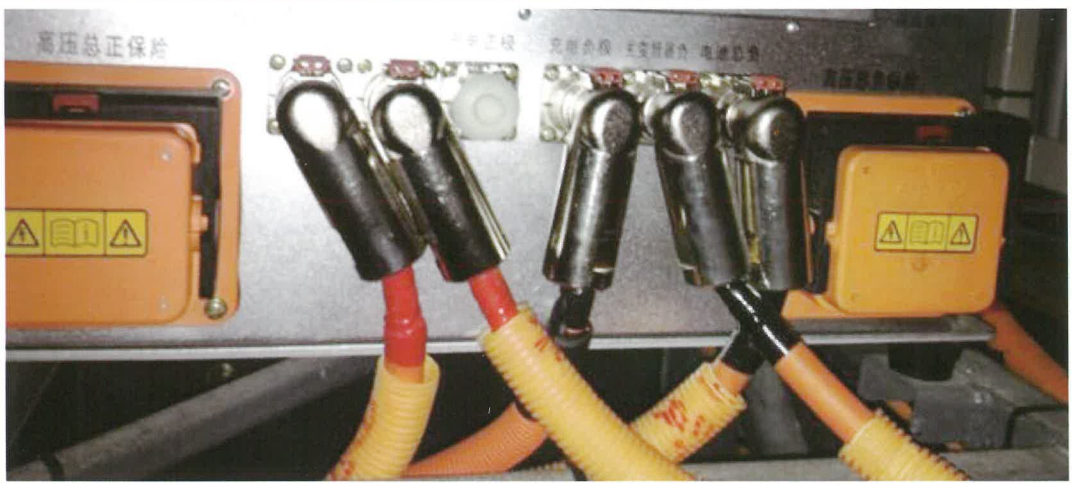
整车高压连接

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

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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