

Amass[®] 艾迈斯

专注低压直流大电流连接器**23**年

Focus on low-voltage DC high-current connectors for 23 years

XT系列原创者

第三代锂电大电流内接件

The original creator of the XT series

The third generation of lithium battery high-current internal connectors

第四代 产品手册

Fourth-generation
product brochure



常州市艾迈斯电子有限公司

Changzhou AMS Electronics Co., Ltd

艾迈斯电子（**XT系列原创者**）始创于2002年，是一家集设计、研发、制造、销售于一体的**国家级专精特新“小巨人”企业**和**国家级高新技术企业**。专注低压直流大电流连接器23年，深耕汽车级以下小动力智能设备领域。

公司位于江苏省武进区礼嘉工业园，生产面积12000+平方，土地拥有独立自主产权，300余人的研发、制造及销售团队。百余款连接器产品满足园林工具储能设备、电动车、智能家电、智能机器人及航模无人机等应用场景的连接器需求；同时提供高效的产品研发和生产服务，为行业客户提供 7A 全周期解决方案。

企业使命：为智能设备持续降低动力连接综合成本，助力项目全生命周期运营轻松省心。

Founded in 2002, Amass (the original creator of the XT series) is a national specialized and new "little giant" enterprise and a national high-tech enterprise integrating design, R&D, manufacturing and sales. It has focused on low-voltage DC high-current connectors for 23 years, and deeply cultivated the field of small power intelligent equipment below the automotive grade.

The company is located in Lijia Industrial Park, Wujin District, Jiangsu Province, with a production area of 12,000 square meters, independent property rights, and a R&D, manufacturing and sales team of more than 300 people. More than 100 connector products meet the connector needs of application scenarios such as garden tools, energy storage equipment, electric vehicles, smart home appliances, intelligent robots and model drones; At the same time, it provides efficient product development and production services, and provides 7A full-cycle solutions for industry customers.

Enterprise mission: to continuously reduce the comprehensive cost of power connection for intelligent equipment, and help the whole life cycle operation of the project to be easy and worry-free.

2002 年	12000 +平	10000 +	1000000000 +
成立时间	厂房面积	项目案例	累计装机量
FOUNDED	PLANT AREA	PROJECT EXAMPLES	CUMULATIVE INSTALLED CAPACITY



一期实拍图

A real shot of the first phase

二期（预计2025年投入使用）

Phase II (expected to be put into use in 2025)

企业荣誉 Corporate honors

国家级专精特新“小巨人”企业、国家级高新技术企业

It is a national-level specialized and new "little giant" enterprise and a state-level high-tech enterprise.



资质证书 Qualifications

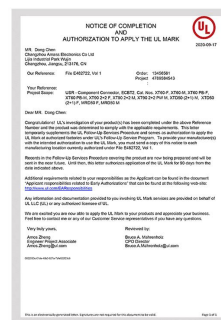
多专利 拥有200+项国家专利证书

Multiple patents. Having over 200 national patent certificates.



多认证 产品通过UL/CE/ROHS等国际认证

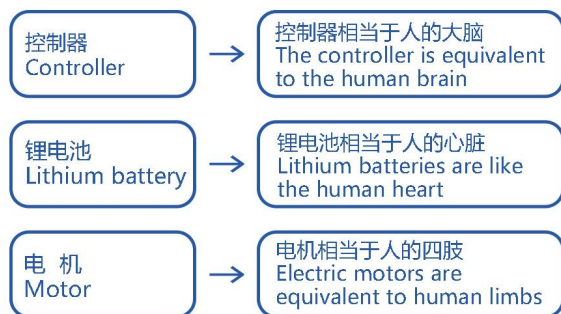
Multi-certification. The products have passed UL/CE/ROHS and other international certifications.



低压直流大电流动力连接 Low-voltage DC high-current power connection

低压直流大电流连接器应用

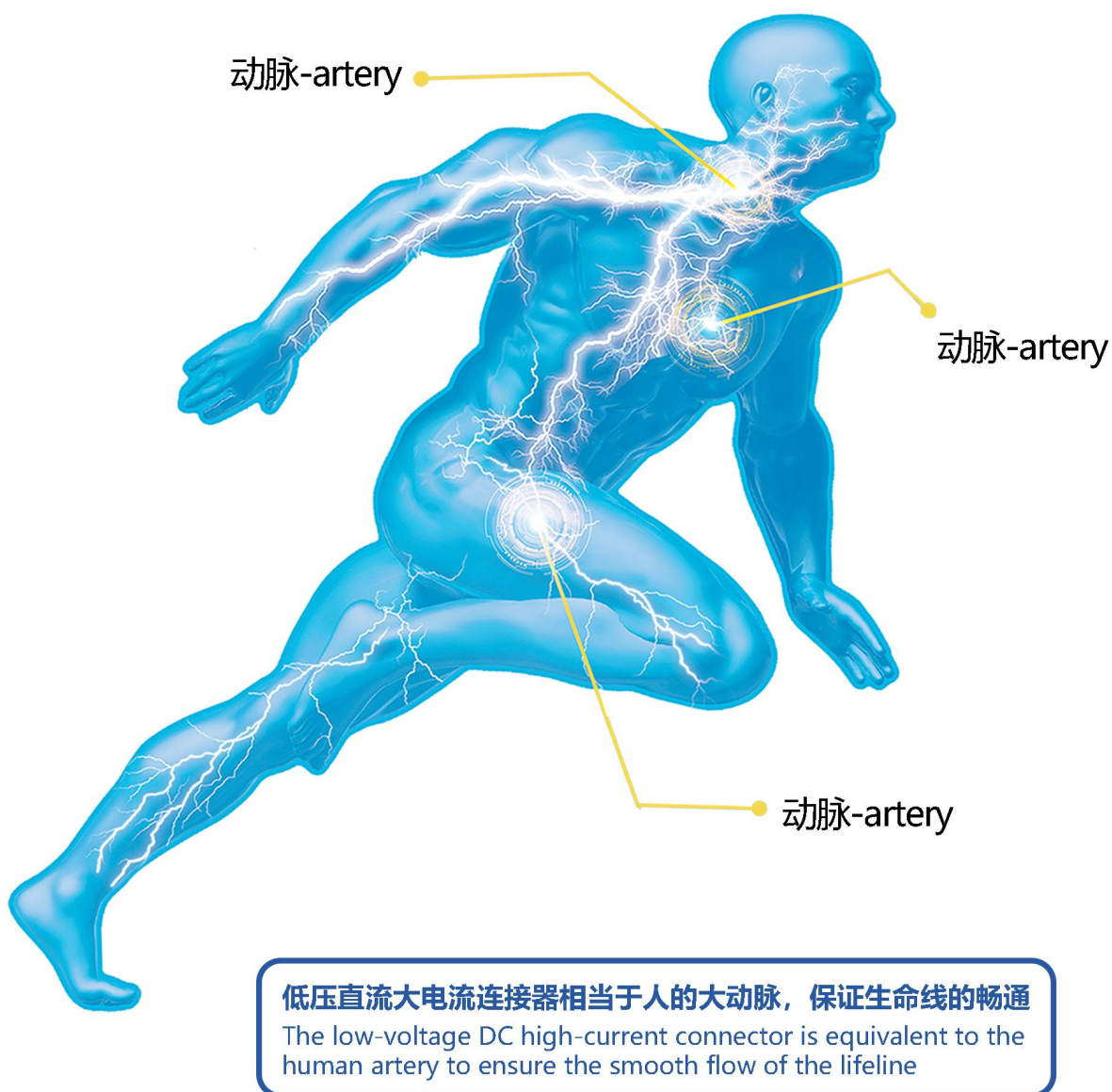
Low-voltage DC high-current connector applications



一站式研发能力

One stop R&D capability

研发能力，23年如一日，专注于低压直流大电流动力连接的技术与经验，只要您提出概念、想法、使用参数等，或者我司现有产品的不足，就可快速的为您提供清晰完整的解决方案。With 23 years of research and development capabilities, we focus on the technology and experience of low-voltage DC high current power connections. As long as you propose concepts, ideas, usage parameters, or the shortcomings of our existing products, we can quickly provide you with clear and complete solutions.



应用行业 Application indust

园林工具 Garden tools

- 吹风机
air blower



- 扫雪机
snowplow



- 推草机
lawn mower



- 高枝锯
High branch saw



电动车 Electric vehicle

- 两轮电动车
Electric vehicle



- 换电柜
Battery swap cabinet



- 平衡车
Balanced vehicle



- 平衡轮
balance wheel



- 电动滑板车
electric scooter



储能设备 Energy storage equipment

- 户外便携式电源
Outdoor portable power supply



- 家庭储能
Home energy storage



- 太阳能路灯
Solar street lamp



- 5G 基站
5G base station



无人机 UAV

- 消费无人机
Consumer drones



- 消防无人机
Firefighting drone



- 植保无人机
Plant protection drone



智能机器人 intelligent robot

- 机器狗
robotic dog



- AGV/AMR



- 商用清扫机器人
Commercial Cleaning robot



- 泳池清洁机器人
Swimming pool cleaning robot



- 人形机器人
Humanoid robot



智能家电 Smart home appliance

- 扫地机器人
Robotic vacuum cleaner



- 吸尘器
Vacuum cleaner



- 洗地机
Washing machine



- 筋膜枪
Fascia gun



其他 other

- LED 灯
LED lamp



- 便携制氧机
Portable oxygen concentrator



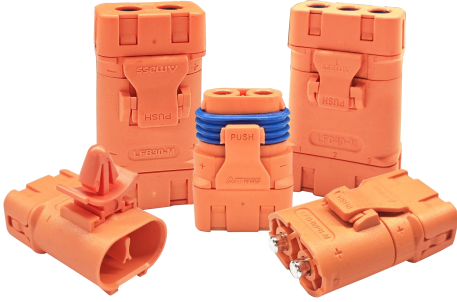
- 3D 打印机
3D printer



- 化成分容
Chemical fractionation



低压直流大电流动力连接 Low-voltage DC high-current power connection

产品系列 Product series	产品目录 Product catalog	页数 Pages	图片 Picture
LC 标准 系列 LC standard series	LC30 系列 LC30 series	P10-12	
	LC40 系列 LC40 series	P13-15	
	LC50 系列 LC50 series	P16-19	
	LC60 系列 LC60 series	P20-23	
LF 标准 系列 LF Standard series	LF30 系列 LF30 series	P26-27	
	LF40 系列 LF40 series	P28-29	
	LF50 系列 LF50 series	P30	
XL 标准 系列 XL Standard series	XL16 系列 XL16 series	P33-34	
LC 升级系列内接件产品 敬请期待! LC Upgrade Series Built-in Products Stay tuned!			

【产品说明 Description】

LC 系列针对于代步工具、园林工具、电动工具、智能家电以及智能机器人等行业内接开发，具备较强的抗震能力、稳定可靠的载流能力、低温升性能及简便的线材组装特性；不同直径连接器分别有单 Pin、双 Pin 以及三 Pin，线式、板立、板卧结构，更加适应于不同产品需求，更具普适性。

The LC series is developed internally for industries such as transportation tools, garden tools, power tools, smart home appliances, and smart robots. It has strong seismic resistance, stable and reliable current carrying capacity, low temperature rise performance, and simple wire assembly characteristics; Different diameter connectors are available in single pin, double pin, and three pin configurations, with wire, board upright, and board horizontal structures, which are more suitable for different product needs and more universal.

【型号命名 Type Designation】

L	C	B	30	PB	(1)	F
		PIN规格 PIN specifications	接触尺寸规格 Contact size specifications	结构 Structure	带信号及PIN数 With signal and PIN number	连接器公母端 Connector male and female
C:标准款 C:Standard version		A:1PIN B:2PIN C:3PIN D:4PIN	20:插针直径2mm 20: Pin diameter 2mm 30:插针直径3mm 30: Pin diameter 3mm 40:插针直径4mm 40: Pin diameter 4mm 50:插针直径5mm 50: Pin diameter 5mm	不带:线式 Without: Linear P B:板立式 P B: Vertical board P W:板卧式 P W: Horizontal Plate D:短款 D: Short	(1):1根信号 (1): 1 signal (2):2根信号 (2): 2 signal	F:母端 F: Female end M:公端 M: Male

【技术参数 Technical Parameter】

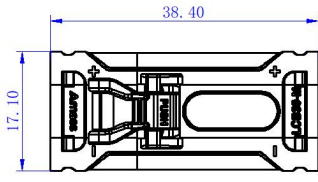
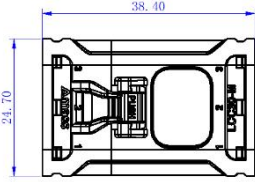
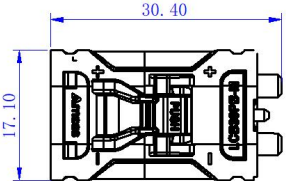
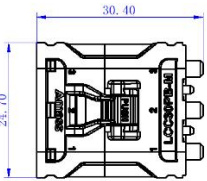
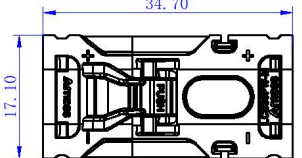
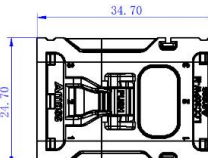
额定电压 Rated voltage	≤150V	工作温度 Work temperature	-40~120℃	接触电阻 Contact resistance	≤0.6mΩ
绝缘电阻 Insulation resistance	≥2000MΩ	盐雾 Salt spray	48h	线式连接方式 Wire connection method	六方铆接 Hexagonal riveting
外壳材料 Housing material	PBT	端子材料 Terminal material	紫铜, 镀银 Copper , Silvering	板式连接方式 Plate connection method	焊接 Welding
阻燃等级 Materials flame level	UL94 V-0 (0.8mm)	灼热丝可燃性指数 Flammability index of heating wire	GWFI 850℃ (0.8mm)	环保性能 Environmental requirements	RoHS2.0 、 Reach、PAHS、 TSCA、CP65

【焊接工艺参数 Welding Parameter】

板式连接器焊接工艺 Welding process of plate connector	波峰焊接 Wave soldering	连接器焊脚长度 Connector solder leg length	LC30 系列: 3mm LC40 系列: 3mm LC50 系列: 4mm LC60 系列: 4.5mm	波峰焊炉温参数 (焊接区) Wave soldering furnace temperature parameters (welding area)	1. 下温区 (PCB 板下: 焊脚) : 240℃~270℃ Lower temperature zone (under PCB board: solder pins):240℃~270℃ 2. 上温区 (PCB 板上: 塑壳区) : ≤180℃ Upper temperature zone (PCB board: plastic shell zone):≤180℃ 3. 焊接时长: 3~6s (以客户实际调试为准) Welding duration: 3-6S (Subject to actual debugging by the customer)
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LC30 系列 LC30 series

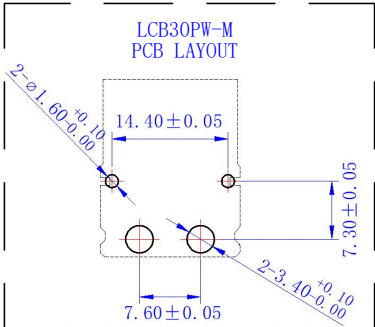
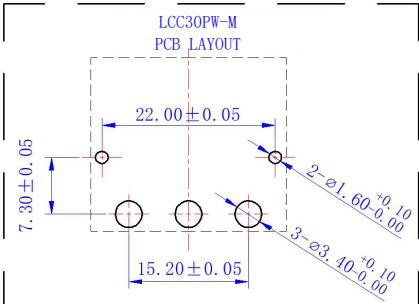
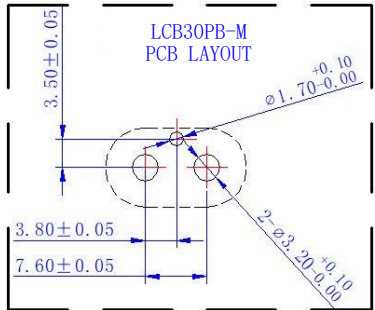
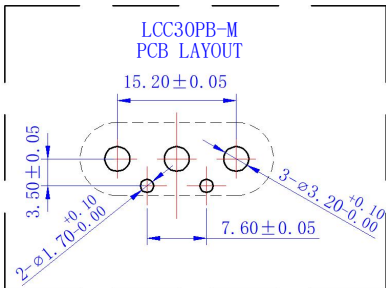
系列 Series	适配线规 Adapter gauge					最大线缆外 径 mm Maximum cable outer diameter (mm)	额定 电流 Current rating	温升 temperature rise
	美标 American Standard			国标 National Standard				
	A.W.G	铜 mm ² Copper	铜丝 mm Copper wire	mm ²	铜丝 mm Copper wire			
LC30	12#	3.33	0.08	4.0	0.31	5.0	42A	55K
	14#	2.08		2.5	0.26		32A	
	12#	3.33		4.0	0.31		30A	30K
	14#	2.08		2.5	0.26		20A	

	安装方式 installation method	LCB30	LCC30
产品对插 外轮廓图 Product docking outline diagram	线-线 Line-Line	 母头 公头 Female Male	 母头 公头 Female Male
	线-板立 Line-Plate standing	 母头 公头 Female Male	 母头 公头 Female Male
	线-板卧 Line-Plate lying	 母头 公头 Female Male	 母头 公头 Female Male

低压直流大电流动力连接 Low-voltage DC high-current power connection

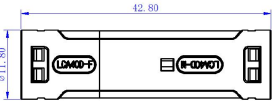
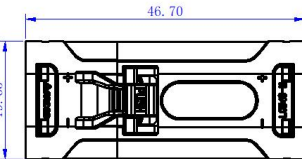
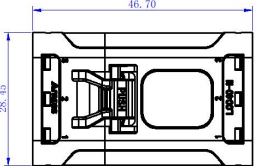
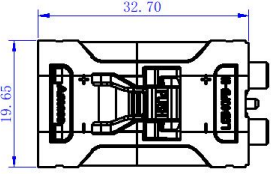
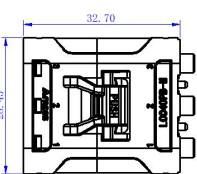
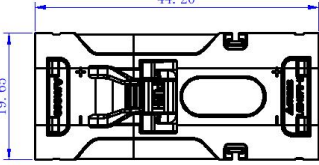
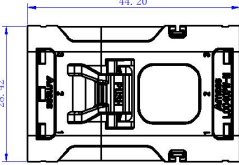
产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LCB30-F	LCB30-F 成品 LCB30-F finished product		97003-F	LCB30-F 塑壳组件 LCB30-F molded case assembly	
			91022-F	LC30-F 铜件 LC30-F copper parts	
LCB30-M	LCB30-M 成品 LCB30-M finished product		97003-M	LCB30-M 塑壳组件 LCB30-M molded case assembly	
			99030-M	LC30-M 铜件 LC30-M copper parts	
LCB30PB-M	LCB30PB-M 成品 LCB30PB-M finished product		/	LCB30PB-M	/
LCB30PW-M	LCB30PW-M 成品 LCB30PW-M finished product		/	LCB30PW-M	/
LCC30-F	LCC30-F 成品 LCC30-F finished product		97004-F	LCC30-F 塑壳组件 LCC30-F molded case assembly	
			91022-F	LC30-F 铜件 LC30-F copper parts	
LCC30-M	LCC30-M 成品 LCC30-M finished product		97004-M	LCC30-M 塑壳组件 LCC30-F molded case assembly	
			99030-M	LC30-M 铜件 LC30-M copper parts	

LCC30PB-M	LCC30PB-M 成品 LCC30PB-M finished product		/	LCC30PB-M	/
LCC30PW-M	LCC30PW-M 成品 LCC30PW-M finished product		/	LCC30PW-M	/

	LCB30	LCC30
PCB 开孔尺寸		
PCB Cut-out size		

LC40 系列 LC40 series

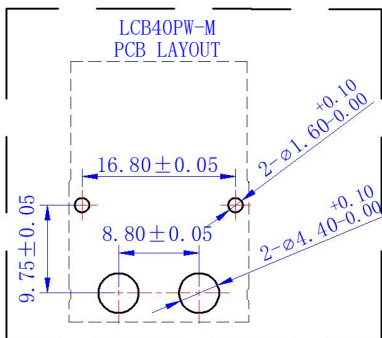
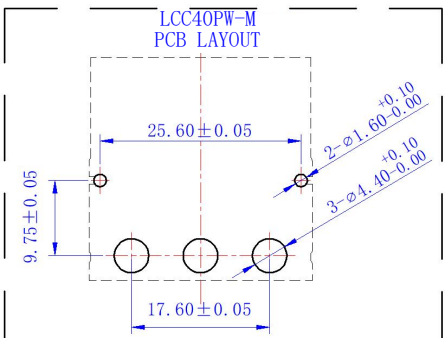
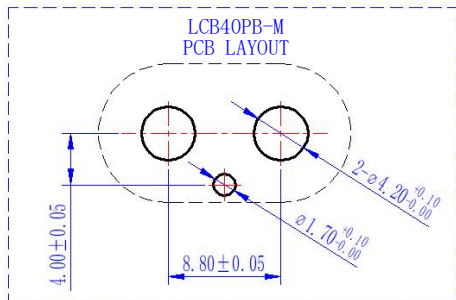
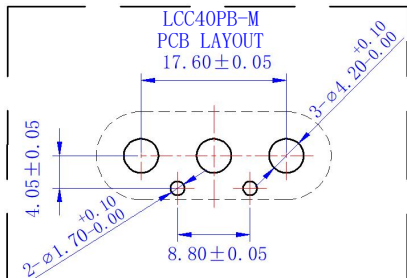
系列 Series	适配线规 Adapter gauge					最大线缆外径 mm Maximum cable outer diameter (mm)	额定 电流 Current rating	温升 temperature rise
	美标 American Standard			国标 National Standard				
	A.W.G	铜 mm ² Copper	铜丝 mm Copper wire	mm ²	铜丝 mm Copper wire			
LC40	10#	5.2	0.08	6.0	0.31	6.4	52A	55K
	12#	3.3		4.0			42A	
	10#	5.2		6.0			35A	30K
	12#	3.3		4.0			30A	

	安装方式 installation method	LCA40D	LCB40	LCC40
产品对插 外轮廓图 Product docking outline diagram	线-线 Line-Line	 母头 Female 公头 Male	 母头 Female 公头 Male	 母头 Female 公头 Male
	线-板立 Line-Plate standing		 母头 Female 公头 Male	 母头 Female 公头 Male
	线-板卧 Line-Plate lying		 母头 Female 公头 Male	 母头 Female 公头 Male

低压直流大电流动力连接 Low-voltage DC high-current power connection

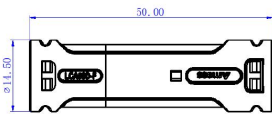
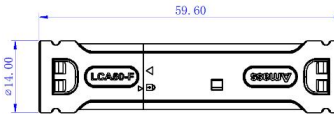
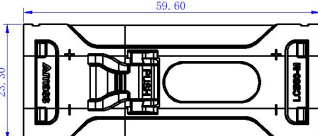
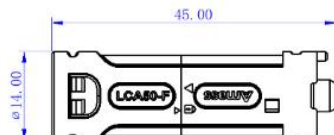
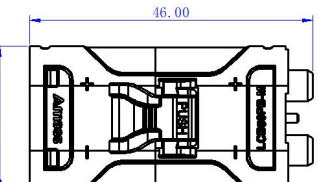
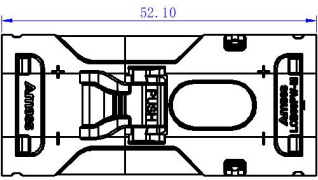
产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LCA40D-F	LCA40D-F 成品 LCA40D-F finished product		97025-F	LCA40D-F 红色塑壳 LCA40D-F Red plastic shell	
			97026-F	LCA40D-F 黑色塑壳 LCA40D-F Black plastic shell	
			91020-F	LC40-F 铜件 LC40-F copper parts	
LCA40D-M	LCA40D-M 成品 LCA40D-M finished product		97025-M	LCA40D-M 红色塑壳 LCA40D-M Red plastic shell	
			97026-M	LCA40D-M 黑色塑壳 LCA40D-M Black plastic shell	
			99028-M	LC40-M 铜件 LC40-M copper parts	
LCB40-F	LCB40-F 成品 LCB40-F finished product		97001-F	LCB40-F 塑壳组件 LCB40-F molded case assembly	
			91020-F	LC40-F 铜件 LC40-F copper parts	
LCB40-M	LCB40-M 成品 LCB40-M finished product		97001-M	LCB40-M 塑壳组件 LCB40-M molded case assembly	
			99028-M	LC40-M 铜件 LC40-M copper parts	
LCB40PB-M	LCB40PB-M 成品 LCB40PB-M finished product		/	LCB40PB-M	/
LCB40PW-M	LCB40PW-M 成品 LCB40PW-M finished product		/	LCB40PW-M	/

LCC40-F	LCC40-F 成品 LCC40-F finished product		97011-F	LCC40-F 塑壳组件 LCC40-F molded case assembly	
			91020-F	LC40-F 铜件 LC40-F copper parts	
LCC40-M	LCC40-M 成品 LCC40-M finished product		97011-M	LCC40-M 塑壳组件 LCC40-M molded case assembly	
			99028-M	LC40-M 铜件 LC40-M copper parts	
LCC40PB-M	LCC40PB-M 成品 LCC40PB-M finished product		/	LCC40PB-M	/
LCC40PW-M	LCC40PW-M 成品 LCC40PW-M finished product		/	LCC40PW-M	/

	LCB40	LCC40
PCB 开孔尺寸 PCB Cut-out size		
		

LC50 系列 LC50 series

系列 Series	适配线规 Adapter gauge					最大线缆外径 mm Maximum cable outer diameter (mm)	额定 电流 Current rating	温升 temperature rise
	美标 American Standard			国标 National Standard				
	A.W.G	铜 mm ² Copper	铜丝 mm Copper wire	mm ²	铜丝 mm Copper wire			
LC50	8#	8.3	0.08	10	0.41	8	70A	55K
	10#	5.2		6	0.31		55A	
	8#	8.3		10	0.41		55A	30K
	10#	5.2		6	0.31		35A	

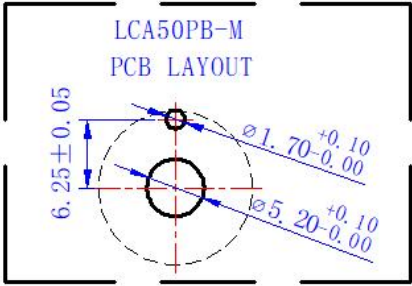
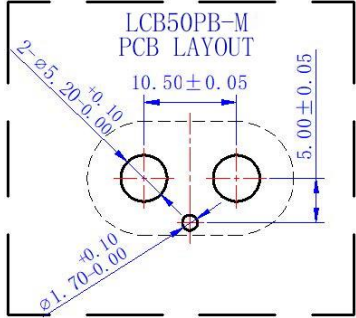
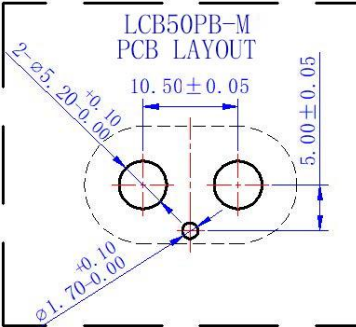
	安装方式 installation method	LCA50D	LCA50	LCB50
产品对插 外轮廓图 Product docking outline diagram	线-线 Line-Line	 母头 Female 公头 Male	 母头 Female 公头 Male	 母头 Female 公头 Male
	线-板立 Line-Plate standing		 母头 Female 公头 Male	 母头 Female 公头 Male
	线-板卧 Line-Plate lying			 母头 Female 公头 Male

低压直流大电流动力连接 Low-voltage DC high-current power connection

产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LCA50D-F	LCA50D-F 成品 LCA50D-F finished product		97024-F	LCA50D-F 红色塑壳 LCA50D-F Red plastic shell	
			97023-F	LCA50D-F 黑色塑壳 LCA50D-F Black plastic shell	
			91023-F	LCA50D-F铜件 LC50D-F copper parts	
LCA50D-M	LCA50D-M 成品 LCA50D-M finished product		97024-M	LCA50D-M 红色塑壳 LCA50D-M Red plastic shell	
			97023-M	LCA50D-M 黑色塑壳 LCA50D-M Black plastic shell	
			99031-M	LCA50D-M铜件 LCA50D-M copper parts	
LCA50-F	LCA50-F 成品 LCA50-F finished product		97012-F	LCA50-F 红色塑壳 LCA50D-F Red plastic shell	
			97013-F	LCA50-F 黑色塑壳 LCA50D-F Black plastic shell	
			97014-F	LCA50-F 橙色塑壳 LCA50-F Orange plastic shell	
			91023-F	LC50-F 铜件 LC50-F copper parts	

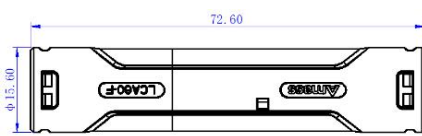
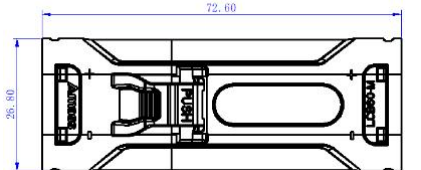
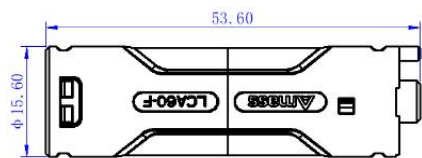
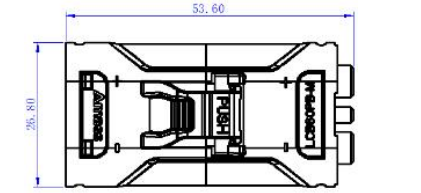
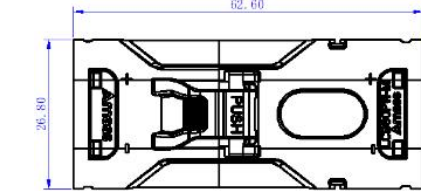
LCA50-M	LCA50-M 成品 LCA50-M finished product		97012-M	LCA50-M 红色塑壳 LCA45D-M Red plastic shell	
			97013-M	LCA50-F 黑色塑壳 LCA50D-F Black plastic shell	
			97014-M	LCA50-F 橙色塑壳 LCA50-F Orange plastic shell	
			99031-M	LC50-M 铜件 LC50-M copper parts	
LCA50PB-M	LCA50PB-M 成品 LCA50PB-M finished product		/	LCA50PB-M 红色 LCA50PB-M Red	/
				LCA50PB-M 黑色 LCA50PB-M Black	
				LCA50PB-M 橙色 LCA50PB-M Orange	
LCB50-F	LCB50-F 成品 LCB50-F finished product		97015-F	LCB50-F 塑壳组件 LCB50-F molded case assembly	
			91023-F	LC50-F 铜件 LC50-F copper parts	
LCB50-M	LCB50-M 成品 LCB50-M finished product		97015-M	LCB50-M 塑壳组件 LCB50-M molded case assembly	
			99031-M	LC50-M 铜件 LC50-M copper parts	
LCB50PB-M	LCB50PB-M 成品 LCB50PB-M finished product		/	LCB50PB-M	/

LCB50PW-M	LCB50PW-M 成品 LCB50PW-M finished product		/	LCB50PW-M	/
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	LCA50	LCB50
PCB 开孔尺寸		
PCB Cut-out size		

LC60 系列 LC60 series

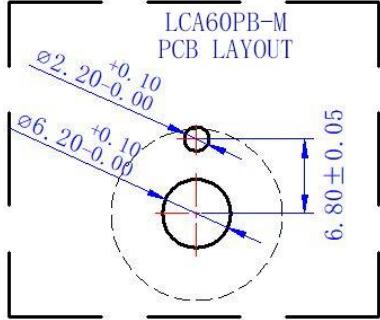
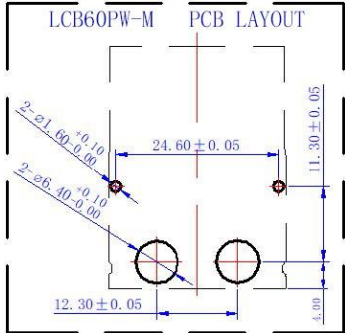
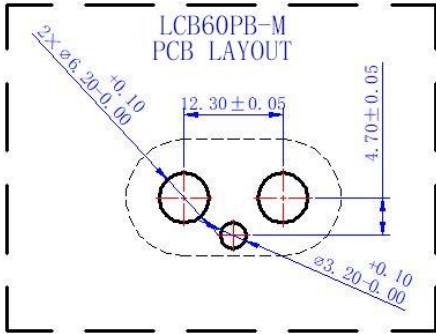
系列 Series	适配线规 Adapter gauge					最大线缆外径 mm Maximum cable outer diameter (mm)	额定 电流 Current rating	温升 temperature rise
	美标 American Standard			国标 National Standard				
	A.W.G	铜 mm² Copper	铜丝 mm Copper wire	mm²	铜丝 mm Copper wire			
LC60	6#	13.3	0.08	16	0.31	9.6	90A	55K
	8#	8.3		10	0.41		70A	
	6#	13.3		16	0.31		65A	30K
	8#	8.3		10	0.41		55A	

	安装方式 installation method	LCA60	LCB60
产品对插 外轮廓图 Product docking outline diagram	线-线 Line-Line	 母头 公头 Female Male	 母头 公头 Female Male
	线-板立 Line-Plate standing	 母头 公头 Female Male	 母头 公头 Female Male
	线-板卧 Line-Plate lying		 母头 公头 Female Male

低压直流大电流动力连接 Low-voltage DC high-current power connection

产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LCA60-F	LCA60-F 成品 LCA60-F finished product		97016-F	LCA60-F 红色塑壳 LCA60-F Red plastic shell	
			97017-F	LCA60-F 黑色塑壳 LCA60-F Black plastic shell	
			97018-F	LCA60-F 橙色塑壳 LCA60-F Orange plastic shell	
			91021-F	LC60-F 铜组件 LC60-F copper parts	
LCA60-M	LCA60-M 成品 LCA60-M finished product		97016-M	LCA60-M 红色塑壳 LCA60-M Red plastic shell	
			97017-M	LCA60-M 黑色塑壳 LCA60-M Black plastic shell	
			97018-M	LCA60-M 橙色塑壳 LCA60-M Orange plastic shell	
			99029-M	LC60-M 铜件 LC50-M copper parts	
LCA60PB-M	LCA60PB-M 成品 LCA60PB-M finished product		/	LCA60PB-M 红色 LCA60PB-M Red	/
				LCA60PB-M 黑色 LCA60PB-M Black	
				LCA60PB-M 橙色 LCA60PB-M Orange	

LCB60-F	LCB60-F 成品 LCB60D-F finished product		97002-F	LCB60-F 塑壳组件 LCB60-F molded case assembly	
			91021-F	LC60-F 铜件 LC60-F copper parts	
LCB60-M	LCB60-M 成品 LCB60D-M finished product		97002-M	LCB60-M 塑壳组件 LCB60-M molded case assembly	
			99029-M	LC60-M 铜件 LC60-M copper parts	
LCB60PB-M	LCB60PB-M 成品 LCB60PB-M finished product		/	LCB60PB-M	/
LCB60PW-M	LCB60PW-M 成品 LCB60PW-M finished product		/	LCB60PW-M	/

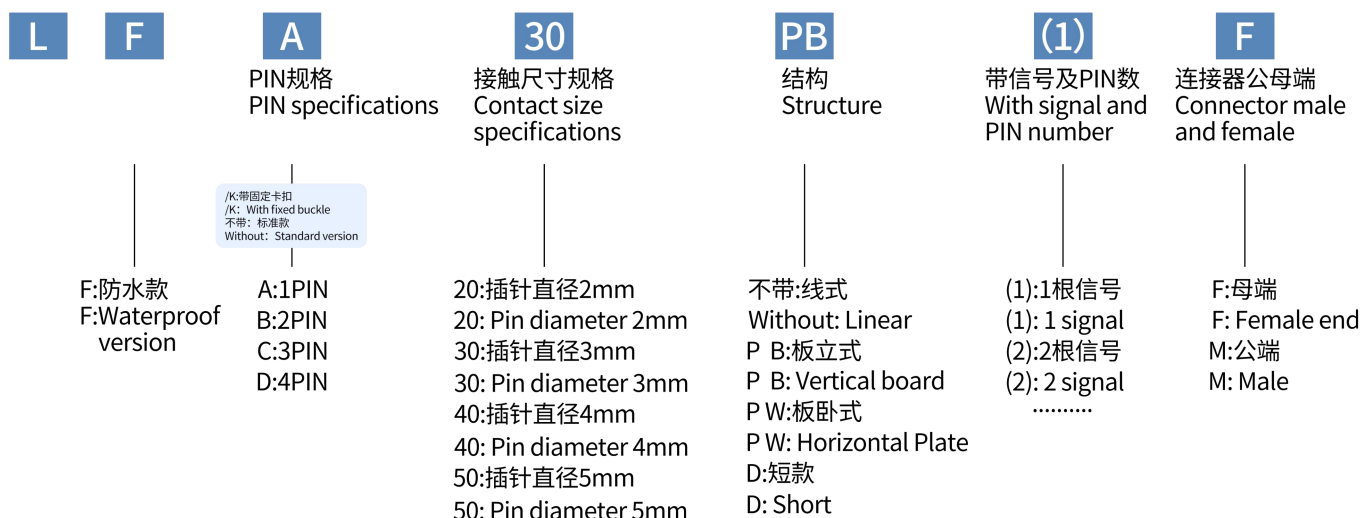
	LCA60	LCB60
PCB 开孔尺寸	 LCA60PB-M PCB LAYOUT	 LCB60PW-M PCB LAYOUT
PCB Cut-out size		 LCB60PB-M PCB LAYOUT

【产品说明 Description】

LF 系列产品是防水款的 LC 系列产品，其具备 LC 系列产品的一切优点。该产品具备较为优良的防水效果，防水能力可以达到 IP67，能适应于绝大多数整机产品的防水需求。

The LF series products are waterproof LC series products, which have all the advantages of LC series products. This product has excellent waterproof effect, with a waterproof capacity of up to IP67, which can meet the waterproof requirements of the vast majority of complete machine products.

【型号命名 Type Designation】



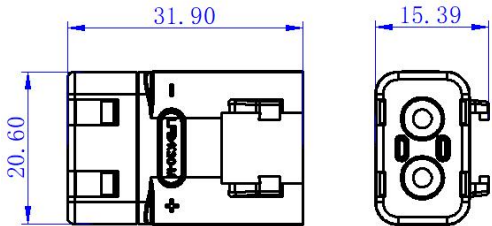
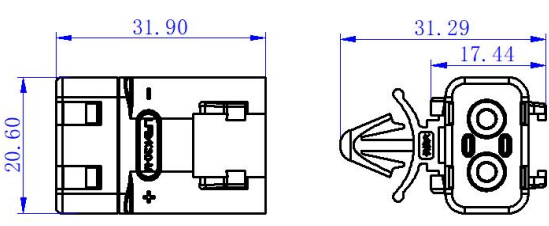
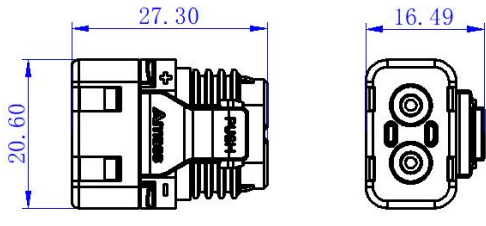
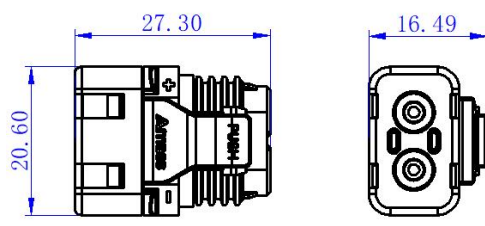
【技术参数 Technical parameters】

额定电压 Rated voltage	≤150V	工作温度 Work temperature	-20~120℃	接触电阻 Contact resistance	≤0.6mΩ
绝缘电阻 Insulation resistance	≥2000MΩ	盐雾 Salt spray	48h	线式连接方式 Wire connection method	六方铆接 Hexagonal riveting
外壳材料 Housing material	PBT	端子材料 Terminal material	紫铜, 镀银 Copper, Silvering	板式连接方式 Plate connection method	焊接 Welding
阻燃等级 Materials flame level	UL94 V-0 (0.8mm)	灼热丝可燃性指数 Flammability index of heating wire	GWFI 850℃ (0.8mm)	环保性能 Environmental requirements	RoHS2.0、 Reach、PAHS、 TSCA、CP65

【焊接工艺参数 Welding Parameter】

板式连接器 焊接工艺 Welding process of plate connector	波峰焊接 Wave soldering	连接器焊 脚长度 Connector solder leg length	LF40 系列：3mm	波峰焊炉温参 数（焊接区） Wave soldering furnace temperature parameters (welding area)	4. 下温区 (PCB 板下: 焊脚): 240°C~270°C Lower temperature zone (under PCB board: solder pins): 240 ° C~270 ° C 5. 上温区 (PCB 板上: 塑壳 区) : ≤180°C Upper temperature zone (PCB board: plastic shell zone): ≤ 180°C 6. 焊接时长: 3~6s (以客户实际调试为准) Welding duration: 3~6s (Subject to actual debugging by the customer)
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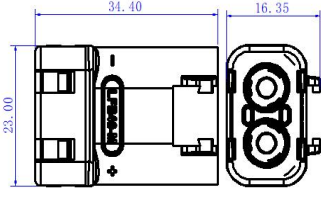
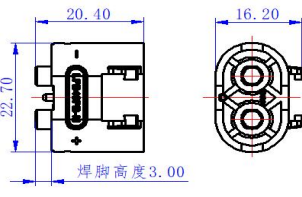
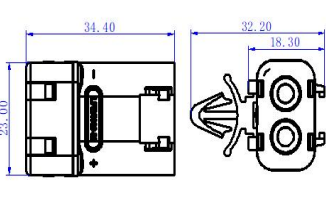
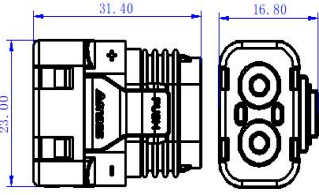
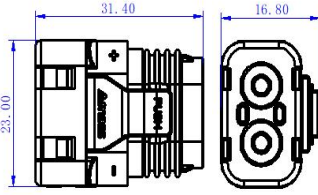
系列 Series	适配线径 Adaptive wire diameter	额定电流 Rated current	温 升 Temperature rise	适用的线材绝缘层直径范围 mm Applicable diameter range of wire insulation layer
	A.W.G			
LF30	12#	35A	55K	硅胶线 3.5mm~5.0mm Silicone wire 3.5mm~5.0mm
	14#	30A		
	12#	25	30K	
	14#	20A		

	LFB30 (压线款 Line pressing style)	LFB/K30 (压线 Crimping)
产品 外轮廓图 Product outer contour drawing	 公 头 Male	 公 头 Male
	 母 头 Female	 母 头 Female

产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LFB30-F	LFB30-F 成品 LFB30-F finished product		97019-F	LF30-F 塑壳组件 LF30-F molded case assembly	
			91022-F	LC30-F 铜件 LC30-F copper parts	
LFB30-M	LFB30-M 成品 LFB30-M finished product		97019-M	LFB30-M 塑壳组件 LFB30-M molded case assembly	
			99030-M	LC30-M 铜件 LC30-M copper parts	
LFB/K30-M	LFB/K30-M 成品 LFB/K30-M finished product		97020-M	LFB/K30-M 塑壳组件 LFB/K30-M molded case assembly	
			99030-M	LC30-M 铜件 LC30-M copper parts	

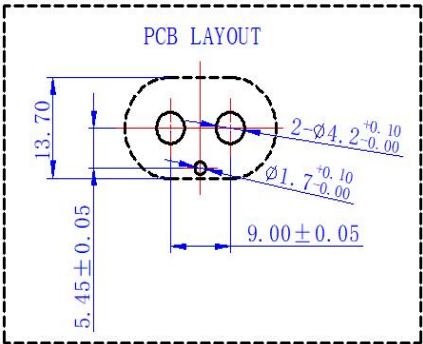
LF40 系列 LF40 series

系列 Series	适配线径 Adaptive wire diameter	额定电流 Rated current	温 升 Temperature rise	适用的线材绝缘层直径范围 mm Applicable diameter range of wire insulation layer
	A.W.G			
LF40	10#	45A	55K	硅胶线 4.5mm~6.0mm Silicone wire 4.5mm~6.0mm
	12#	35A		
	10#	35A	30K	
	12#	25A		

	LFB40 (压线 Crimping)	LFB40PB (焊板 welding plate)	LFB/K40 (压线 Crimping)
产品 外轮廓图 Product outer contour drawing	 公 头 Male	 公 头 Male	 公 头 Male
	 母 头 Female		 母 头 Female

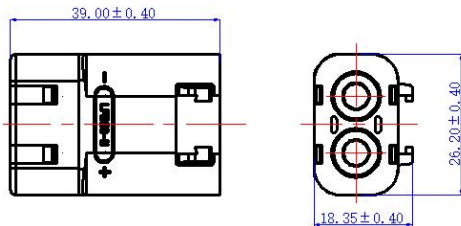
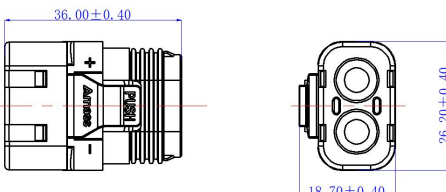
低压直流大电流动力连接 Low-voltage DC high-current power connection

产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LFB40-F	LFB40-F 成品 LFB40-F finished product		97021-F	LFB40-F 塑壳组件 LFB40-F molded case assembly	
			91020-F	LC40-F 铜件 LC40-F copper parts	
LFB40-M	LFB40-M 成品 LFB40-M finished product		97021-M	LFB40-M 塑壳组件 LFB40-M molded case assembly	
			99028-M	LC40-M 铜件 LC40-M copper parts	
LFB40PB-M	LFB40PB-M 成品 LFB40PB-M finished product		/	LFB40PB-M	/
			/	LC40PB-M	/
LFB/K40-M	LFB/K40-M 成品 LFB/K40-M finished product		97022-M	LFB/K40-M 塑壳组件 LFB/K40-M molded case assembly	
			99028-M	LC40-M 铜件 LC40-M copper parts	

LFB40PB	
PCB 开孔尺寸 PCB Cut-out size	

LF50 系列 LF50 series

系列 Series	适配线径 Adaptive wire diameter	额定电流 Rated current	温 升 Temperature rise	适用的线材绝缘层直径范围 mm Applicable diameter range of wire insulation layer
	A.W.G			
LF50	8#	45A	30K	硅胶线 5.5mm~7.0mm Silicone wire 5.5mm~7.0mm
	10#	30A		
	8#	65A	55K	
	10#	50A		

	LFB50 (压线 Crimping)	
产品 外轮廓图 Product outer contour drawing	 公 头 Male	
	 母 头 Female	

产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
LFB50-F	LFB50-F 成品 LFB50-F finished product		97027-F	LFB50-F 塑壳组件 LFB50-F molded case assembly	
			91023-F	LC50-F 铜件 LC50-F copper parts	
LFB50-M	LFB50-M 成品 LFB50-M finished product		97027-M	LFB50-M 塑壳组件 LFB50-M molded case assembly	
			99031-M	LC50-M 铜件 LC50-F copper parts	

低压直流大电流动力连接 Low-voltage DC high-current power connection

【产品说明 Description】

XL 系列是 XT 系列的升级系列，其主要运用于对整机产品空间要求极高的锂电产品电池和控制器、电机和控制器之间的连接。

The XL series is an upgraded series of the XT series, which is mainly used for the connection between the lithium battery battery and the controller, the motor and the controller, which have extremely high requirements for the space of the whole product.

【型号命名 Type Designation】

X	L	B	16	PB	(1)	F
		PIN规格 PIN specifications	接触尺寸规格 Contact size specifications	结构 Structure	带信号及PIN数 With signal and PIN number	连接器公母端 Connector male and female
L:标准款 L:Standard version	A:1PIN B:2PIN C:3PIN D:4PIN	16:插针直径1.6mm 16: Pin diameter 1.6mm 30:插针直径3mm 30: Pin diameter 3mm 40:插针直径4mm 40: Pin diameter 4mm	不带:线式 Without: Linear P B:板立式 P B: Vertical board P W:板卧式 P W: Horizontal Plate R A:90°出线 R A: 90 ° outgoing line	(1):1根信号 (1): 1 signal (2):2根信号 (2): 2 signal	F:母端 F: Female end M:公端 M: Male	

【技术参数 Technical parameters】

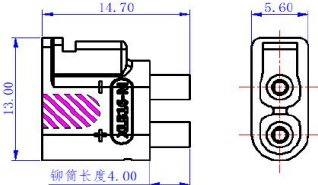
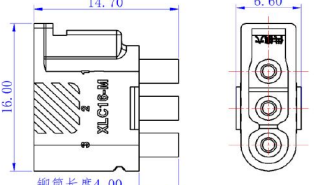
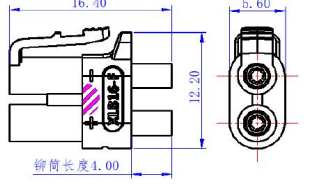
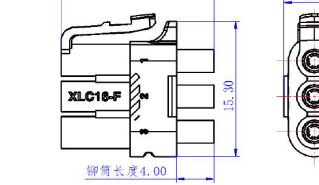
额定电压 Rated voltage	≤80V	工作温度 Work temperature	-40~120℃	接触电阻 Contact resistance	≤0.8mΩ
绝缘电阻 Insulation resistance	≥5000MΩ	盐雾 Salt spray	48h	线式连接方式 Wire connection method	B 型铆接 Type riveting B
外壳材料 Housing material	PBT	端子材料 Terminal material	紫铜, 镀银, 镀镍 Copper, silver-plated, nickel-plated	板式连接方式 Plate connection method	焊接 Welding
阻燃等级 Materials flame level	UL94 V-0	灼热丝可燃性指数 Flammability index of heating wire	GWFI 850℃	环保性能 Environmental requirements	RoHS2.0 、 Reach、PAHS、 TSCA、CP65

【焊接工艺参数 Welding Parameter】

板式连接器 焊接工艺 Welding process of plate connector	波峰焊接 Wave soldering	连接器焊 脚长度 Connector solder leg length	XL16 系列: 3mm	波峰焊炉温参 数 (焊接区) Wave soldering furnace temperature parameters (welding area)	7. 下温区 (PCB 板下: 焊脚): 240°C~270°C Lower temperature zone (under PCB: solder foot):240°C~270°C 8. 上温区 (PCB 板上: 塑壳 区) : ≤180°C Welding time: 3~6s (Subject to the actual commissioning of the customer) 9. 焊接时长: 3~6s (以客户实际调试为准) Welding time: 3~6s (Subject to the actual commissioning of the customer)
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XL16 系列

系列 Series	适配线径 Adaptive wire diameter	额定电流 Rated current	温 升 Temperature rise
	A.W.G		
XL16	16#	16A	55K
	18#	12A	
	16#	22A	85K
	18#	15A	

	XLB16 (压线 Crimping)	XLC16 (压线 Crimping)
产品 外轮廓图 Product outer contour drawing	 公 头 Male	 公 头 Male
	 母 头 Female	 母 头 Female

产品型号 Product model	产品名称 Product name	产品图 Product pictures	组件型号 Component Type	组件名称 Name of Component	组件图 Component diagram
XLB16-F	XLB16-F 成品 XLB16-F finished product		XLB16-F	XLB16-F 塑壳组件 XLB16-F molded case assembly	/
XLB16-M	XLB16-M 成品 XLB16-M finished product		XLB16-M	XLB16-M 塑壳组件 XLB16-M molded case assembly	/

低压直流大电流动力连接 Low-voltage DC high-current power connection

XLB16PB-M	XLB16PB-M 成品 XLB16PB-M finished product		XLB16PB-M	XLB16PB-M 塑壳组件 XLB16PB-M molded case assembly	/
XLC16-F	XLC16-F 成品 XLC16-F finished product		XLC16-F	XLC16-F 塑壳组件 XLC16-F molded case assembly	/
XLC16-M	XLC16-M 成品 XLC16-M finished product		XLC16-M	XLC16-M 塑壳组件 XLC16-M molded case assembly	/

【使用说明：详细参考艾迈斯第四代产品使用手册 Instructions for use: Please refer to the user manual of the fourth generation product of AMS for details】

 请勿在向连接器施加外力的状态下使用 Do not use under external force applied to the connector	● 请勿在连接器和电线受力的状态下通电。如受到过大的外力，会破损导致故障和事故发生，所以请勿在此情况下使用。 Do not power on the connector and wires when they are under stress. If subjected to excessive external force, it may damage and cause malfunctions and accidents, so please do not use it in this situation. ● 连接器是作为电路的连接部件而设计，请勿将连接器作为外壳等结构物体的一部分使用。 Connectors are designed as connecting components for circuits, and should not be used as part of structural objects such as casings.	 请小心使用 Please use with caution	● 连接器是精密部件，请在使用时谨慎小心。 Connectors are precision components, please be cautious when using them. ● 请您从打开包装时起就要谨慎小心，即使是有载带和包装管这样包装的产品，它在受到强烈撞击后，还是会造成端子变形、弯曲、脱出等现象发生。 Please be cautious and careful from the moment you open the packaging. Even products packaged with carrier tapes and packaging tubes can still cause deformation, bending, and detachment of terminals after strong impact.
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【运输和贮存 Transportation and storage】

- a) 产品应贮存在清洁、干燥的环境下，库房周边不存在酸、碱或其他腐蚀性气体。
The product should be stored in a clean and dry environment, and there should be no acidic, alkaline, or other corrosive gases around the warehouse.
- b) 产品存储温度为-10℃~40℃，相对湿度≤80%。
The storage temperature of the product is -10 ℃ to 40 ℃, and the relative humidity is ≤ 80%.
- c) 产品镀银件应避免光、封口密封贮存，严禁长时间空气暴露或与硫化物接触，杜绝裸手触摸。
Silver plated products should be stored away from light, sealed, and sealed. Prolonged exposure to air or contact with sulfides is strictly prohibited, and touching with bare hands is strictly prohibited.
- d) 产品可适用于常规交通工具运输，运输中应避免碰撞、剧烈振动、雨雪淋袭、水浸等。
The product is suitable for transportation by conventional means of transportation, and collision, severe vibration, rain and snow, water immersion, etc. should be avoided during transportation.



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