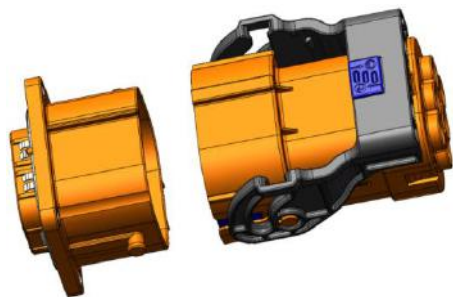


技术规格书A1/Technical Specification A1

YGEV2-6pin系列连接器/YGEV2-6Pin Series Electrical Connectors

• 产品概述/Product instruction



应用场景/Application

适用于电动汽车充电机、DCDC、高压盒等的电气连接。

Suitable for electrical connections of electric vehicle components such as chargers, DC/DC converters, and high-voltage boxes.

优势/Advantages

- ✓ 该产品可实现 360 度全屏蔽;
The product can achieve 360-degree full shielding;
- ✓ 该产品可实现二次互锁及解锁;
The product can realize secondary interlocking and unlocking;
- ✓ 该产品具有延时高压互锁功能;
The product has a delayed high voltage interlocking function;
- ✓ 两端防呆键位采用 4 种不同组合实现防错插功能;
The key positions at both ends adopt 4 different combinations to realize the function of preventing wrong insertion;
- ✓ 插头与插座的连接形式为直插锁紧;
The plug and receptacle utilize a direct plug-in locking mechanism for connection.
- ✓ 插头插座采用端子压接。
The plug and receptacle adopt terminal crimping.

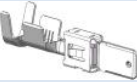
• 订货信息/Ordering information

订货信息(总成)/Ordering information(assembly)

产品名称/ Product name	YGEV2-P6PA 插头(2.5mm ²) YGEV2-P6PA plug(2.5mm ²)	YGEV2-P6PA 插头(4mm ²) YGEV2-P6PA plug(4mm ²)	YGEV2-P6PA 插头(6mm ²) YGEV2-P6PA plug(6mm ²)
产品编号/ Product code	111000406132	111000406133	111000406134
对插端名称/ Receptacle name	YGEV2-S6RA 插座(2.5mm ²) YGEV2-S6RA receptacle(2.5mm ²)	YGEV2-S6RA 插座(4-6mm ²) YGEV2-S6RA receptacle(4-6mm ²)	YGEV2-S6RA 插座(4-6mm ²) YGEV2-S6RA receptacle(4-6mm ²)
对插端编号/ Receptacle code	111000503012	111000503014	111000503014

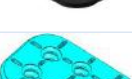
订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased separately)

订货信息(总成)/Ordering information (assembly)	订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased separately)				
	产品名称/ Product name	产品编码/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)

YGEV2-P6PA 插头/ YGEV2-P6PA plug (2.5 mm ²)	111000406132	YGEV2-P6PA 插头组件 YGEV2-P6PA plug assembly plug assembly	112010106727	1	/	
		5.8×0.8 插针 5.8×0.8 pins (2.5 mm ²)	113020101551	6	2.5mm ² (LV216) Φ4.7(0, -0.5) mm	
		YG1467 屏蔽件-外-4 YG1467 shielding - outer - 4	114022500495	6		
		YGEV2 屏蔽件-内-2.5 YGEV2 shielding - inner - 2.5	114022500523	6		
		YGEV2-6pin 挡板-4 YGEV2-6 pin baffle- 4	114069806726	1		
		YGEV2-6pin-6 封线体-4 YGEV2-6 pin-6 cable seal- 4	114050502344	1		
		Φ4.9 尾盖-6 芯 Φ4.9 rear cover-6 pin	114069806727	1		

订货信息(总成)/Ordering information (assembly)		订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased separately)				
		产品名称/ Product name	产品编码/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV2-P6PA 插头 YGEV2-P6PA plug (4 mm ²)	111000406133	YGEV2-P6PA 插头组件 YGEV2-P6PA plug assembly	112010106727	1	/	
		5.8×0.8 插针 5.8×0.8 pins (4~6 mm ²)	113020101520	6	4mm ² (LV216) Φ5.8(0, -0.5) mm	
		YG1467 屏蔽件-外-4 YG1467 shielding - outer - 4	114022500495	6		
		YG1467 屏蔽件-内-4 YG1467 shielding - inner - 4	114022500492	6		
		YGEV2-6pin 挡板-5 YGEV2-6 pin baffle- 5	114069806967	1		
		YGEV2-6pin-6 封线体-5 YGEV2-6 pin-6 cable seal- 5	114050502343	1		
		Φ6 尾盖-6 芯 Φ6 rear cover - 6 pin	114069806728	1		

订货信息(总成)/Ordering information (assembly)	订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased separately)
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		产品名称/ Product name	产品编码/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV2-P6PA 插头 YGEV2-P6PA plug (6 mm ²)	111000406134	YGEV2-P6PA 插头组件 YGEV2-P6PA plug assembly	112010106727	1	/	
		5.8×0.8 插针 5.8×0.8 pins (4~6 mm ²)	113020101520	6	6mm ² (LV216) Φ6.5(0, -0.5) mm	
		YG1467 屏蔽件-外-6 YG1467 shielding - outer - 6	114022500496	6		
		YG1467 屏蔽件-内-6 YG1467 shielding - inner - 6	114022500494	6		
		YGEV2-6pin 挡板-6 YGEV2-6 pin baffle- 6	114069806968	1		
		YGEV2-6pin-6 封线体-6 YGEV2-6 pin-6 cable seal- 6	114050502372	1		
		Φ6.7 尾盖-6 芯 Φ6.7 rear cover - 6 pin	114069806729	1		

订货信息(总成)/Ordering information (assembly)		订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased separately)				
		产品名称/ Product name	产品编码/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV2-S6RA 插座 YGEV2-S6RA receptacle (2.5 mm ²)	111000503012	YGEV2-S6RA 插座组件 YGEV2-S6RA receptacle assembly	112020107445	1	/	
		5.8×0.8 插孔 5.8×0.8 socket (2.5 mm ²)	110010400999	6	2.5mm ² (GB) Φ3.5±0.15mm	
		0.63×0.63 插孔 0.63 × 0.63 socket	501021401680	2	0.35mm ² (FLRY-B) Φ1.3±0.1mm	
YGEV2-S6RA 插座 YGEV2-S6RA receptacle (4-6 mm ²)	111000503014	YGEV2-S6RA 插座组件 YGEV2-S6RA receptacle assembly	112020107445	1	/	
		5.8×0.8 插孔 5.8×0.8 socket(4~6 mm ²)	501021401628	6	4mm ² (GB) Φ4.5±0.15mm 6mm ² (GB) Φ4.9±0.15mm	

		0.63×0.63 插孔 0.63 × 0.63 socket	501021401680	2	0.35mm ² (FLRY-B) Φ1.3±0.1mm	
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• 技术数据/Technical data

基本信息/Basic information	
PIN 距/PIN distance	详见数模/See the 3D for details
芯数/Numbers of pins	6pin
线缆规格/Wire specification	插头端 Plug: 2.5mm ² (LV216)/Φ4.7(0, -0.5)mm 4mm ² (LV216)/Φ5.8(0, -0.5)mm 6mm ² (LV216)/Φ6.5(0, -0.5)mm 插座端 Receptacle: 2.5mm ² (GB)/Φ3.5±0.15mm 4mm ² (GB)/Φ4.5±0.15mm 6mm ² (GB)/Φ4.9±0.15mm 0.35mm ² (FLRY-B)/Φ1.3±0.1mm
出线方向/Cable outlet direction	180°
电气性能/Electrical properties	
额定电压/Rated voltage	1000 V (功率/power), 24 V(信号/signal)
绝缘电阻/Insulation resistance	≤1.5mΩ(功率/power)、≤10mΩ(信号/signal)
额定电流/Rated current	20A(2.5mm ²)、32A(4mm ²)、40A(6mm ²)
耐电压/Withstand voltage	3000 V(功率/power), 1000 V(信号/signal)(50Hz AC 常态/normal condition)
绝缘电阻/Insulation resistance	≥100MΩ(功率/信号)(1000V DC) ≥100MΩ (power/signal) (1000V DC)
HVIL(Y/N)	Y
屏蔽(Y/N)/Shielding	Y
机械性能/Mechanical properties	
机械寿命 /Life cycles	50 次/times
振动/Vibration	LV215, S2
耐环境性能/Environmental resistance properties	
工作温度/Ambient temperature	-40℃ ~ +125℃
防护等级/IP rating	IP67&IP6K9K(头座对插)、IPXXB IP67&IP6K9K (plug-receptacle mated)、IPXXB
污染等级/Pollution level	2
相对湿度/Humidity range	95%(40℃时/at 40℃)
盐雾/Salt spray	96h
海拔要求/Altitude requirements	≤4000m
材料/涂覆/外观/Materials/Finish/Outline	
参见零部件图纸/Refer to the component drawing	
标准及认证/Standards and certifications	
阻燃等级/Flame retardant rating	UL94 V-0(塑料/plastic)、UL94 HB(橡胶/rubber)
环保要求/Environmental requirements	RoHS 2.0

执行标准/Implementation standard

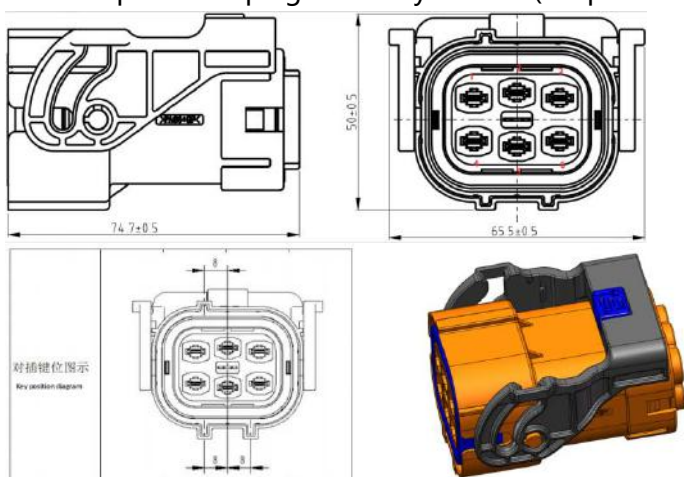
USCAR 37、LV215、GB/T 30038-2013

其它技术数据参见 DV/PV 测试报告/Other technical data: Refer to DV/PV test report

• 产品尺寸图及安装开孔尺寸/Product size & mounting hole dimension

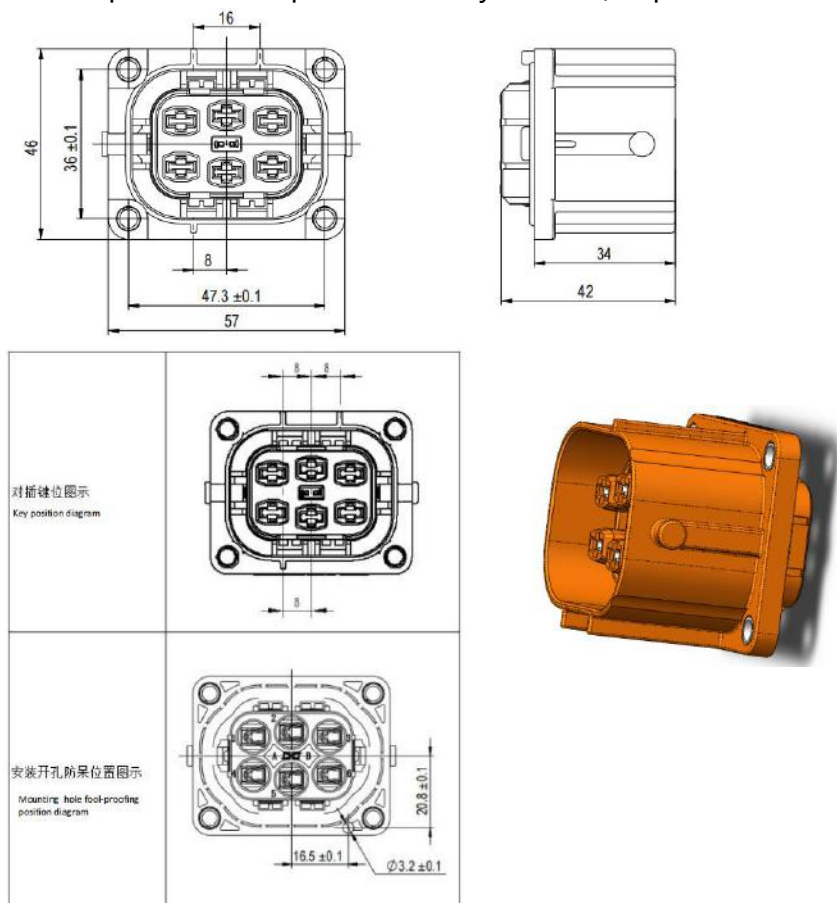
1.YGEV2-6pin 系列插头总成外形(未注公差: ± 0.5)

YGEV2-6pin series plug assembly outline (unspecified tolerance: ± 0.5)

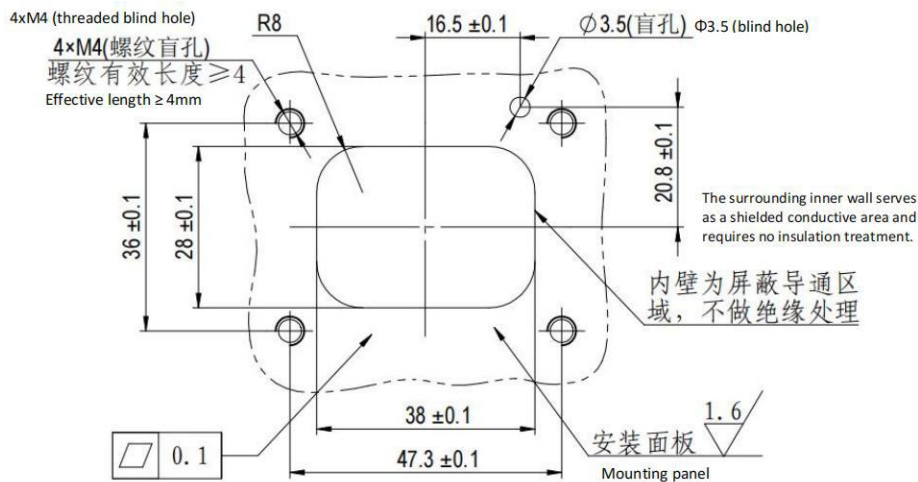


2.YGEV2-6pin 系列插座总成外形(未注公差: ± 0.5)

YGEV2-6pin series receptacle assembly outline (unspecified tolerance: ± 0.5)



3.YGEV2-6pin 系列插座安装开孔尺寸(未注公差：±0.1)
GEV2-6pin series receptacle mounting hole dimensions (unspecified tolerance: ±0.1)



推荐安装面板尺寸（厚度≥4mm）；螺钉拧紧扭矩：3±0.5N.m
Recommended mounting hole dimension (Thickness ≥ 4mm)
Screw tightening torque: 3 ± 0.5

• 安装说明/Installation

专用工具/Special tools	
拆卸工具/Disassembly tool	功率插针拆卸辅助工具(532031201008)Power pin disassembly tool (532031201008)
	功率插孔拆卸辅助工具(532031201010)Power socket disassembly tool (532031201010)
	信号插针拆卸辅助工具(532031201009)Signal pin disassembly tool (532031201009)
送针工具/Pin feeding tool	/
压接工具/Crimping tool	/
其他工具/Other tool	/

• 储存/Storage

包装储存&转运说明/Storage& transportation	
存放要求/ Storage requirement	接触件(镀金、镀银)类零部件必须单独保存，保持整洁、干净、通风。存储环境应控制在湿度≤60%、温度在5~30℃。参考保存期6个月。 Components with contact elements (gold-plated, silver-plated) must be stored separately, kept clean, tidy and in a well-ventilated environment. The storage environment shall be controlled with a humidity of ≤60% and a temperature ranging from 5°C to 30°C. The reference storage period is 6 months.
运输要求/ Transportation requirement	端子在包装、运输、转运和生产、装配过程中应避免碰撞、接触腐蚀性气体和液体、以及手直接接触等，以保证端子接触表面良好。 During packaging, transportation, transfer, production, and assembly processes, terminals shall be protected from collisions, contact with corrosive gases and liquids, and direct hand contact, so as to ensure the good condition of the terminal contact surfaces.