

技术规格书A2/Technical Specification A2

YGEV6-2pin系列连接器/YGEV6-2pin Series Electrical Connectors

产品概述/Product instruction



优势/Advantages

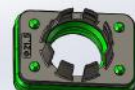
- ✓ 该产品可实现 360 度全屏蔽;
The product can achieve 360-degree full shielding;
- ✓ 该产品可实现二次互锁及解锁;
The product can realize secondary interlocking and unlocking;
- ✓ 该产品具有延时高压互锁功能;
The product has a delayed high voltage interlocking function;
- ✓ 两端防呆键位采用 4 种不同组合实现防错插功能;
The key positions at both ends adopt 4 different combinations to realize the function of preventing wrong insertion;
- ✓ 插座采用永贵自主研发大功率端子, 此端子接触点数目多, 载流能力强的优点;
The receptacle adopts Yonggui's independently developed high-power terminal, which has the advantages of large number of contact points and strong current carrying capacity;
- ✓ 插头有直式、弯式多种规格型号可选。
Plugs are available in straight and angled styles.

应用场景/Application

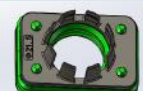
适用于电动汽车的电池包, MCU, 高压盒等高压电气连接。
Suitable for high voltage electrical connections such as battery packs, MCUs, high voltage boxes, etc. in electric vehicles.

订货信息/Ordering information

订货信息/Ordering information				
键位/ Key position	A	A	B	B
产品名称/ Product name	YGEV6-P2PWH A 插头 YGEV6-P2PWH A plug (95mm²)	YGEV6-P2PH A 插头 YGEV6-P2PH A plug (95mm²)	YGEV6-P2PWH B 插头 YGEV6-P2PWH B plug (95mm²)	YGEV6-P2PH B 插头 YGEV6-P2PH B plug (95mm²)
产品编号/ Product code	111000405971	111000405973	111000407174	111000407175
对插端名称/ Receptacle name	YGEV6-S2RA 插座 YGEV6-S2RA receptacle	YGEV6-S2RA 插座 YGEV6-S2RA receptacle	YGEV6-S2RB 插座 YGEV6-S2RB receptacle	YGEV6-S2RB 插座 YGEV6-S2RB receptacle
对插端编号/ Receptacle code	111000502953	111000502953	111000503872	111000503872

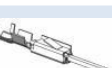
订货信息(总成)/ Ordering information (assembly)		订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased separately)				
		产品名称/ Product name	产品编号/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV6-P2PWHA 插头/ YGEV6-P2PWHA plug (95mm ²)	111000405971	YGEV6-P2PWHA 插头组件 YGEV6-P2PWHA plug assembly	112010106158	1	/	
		24×3.5NAS001-095SW 针端子 24×3.5NAS001-095SW pin terminal	114020503252	2	95mm ² (LV216) Φ20.5± 0.4mm	
		YGEV6 屏蔽件-内-95 YGEV6 shielding-inner-95	114022600480	2		
		YGEV6-P2PWHA 屏蔽件-外-95 YGEV6-P2PWHA shielding-external-95	114022600475	2		
		Φ21.5×2 垫片 Φ21.5×2 washer	114060103683	2		
		线夹组件 R10.75(YGEV6) Cable clamp assembly R10.75(YGEV6)	113069800639	2		
		Φ21.5 尾盖 Φ21.5 rear cover	114060103685	2		
YGEV6-P2PHA 插头/ YGEV6-P2PHA plug (95mm ²)	111000405973	YGEV6-P2PHA 插头组件 YGEV6-P2PHA plug assembly	112010106159	1	/	
		33×3.5NAS001-095SW 针端子 33×3.5NAS001-095SW pin terminal	114020503298	2	95mm ² (LV216) Φ20.5± 0.4mm	
		YGEV6 屏蔽件-内-95 YGEV6 shielding-inner-95	114022600480	2		
		YGEV6-P2PWHA 屏蔽件-外-95 YGEV6-P2PWHA shielding-external-95	114022600475	2		
		Φ21.5×2 垫片 Φ21.5×2 washer	114060103683	2		
		线夹组件 R10.75(YGEV6) Cable clamp assembly R10.75(YGEV6)	113069800639	2		
		Φ21.5 尾盖 Φ21.5 rear cover	114060103685	2		

订货信息(总成)/	订货信息(零部件明细, 可单独采购)/Ordering information (parts details, can be purchased
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Ordering information (assembly)		separately)				
		产品名称 Product name	产品编号/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV6-P2PWHB 插头/ YGEV6-P2PWHB plug (95mm ²)	111000407174	YGEV6-P2PWHB 插头组件 YGEV6-P2PWHB plug assembly	112010107340	1	/	
		24×3.5NAS001-095SW 针端 子 24×3.5NAS001-095SW pin terminal	114020503252	2	95mm ² (LV216) Φ20.5± 0.4mm	
		YGEV6 屏蔽件-内-95 YGEV6 shielding-inner-95	114022600480	2		
		YGEV6-P2PWHA 屏蔽件-外- 95 YGEV6-P2PWHA shielding- external-95	114022600475	2		
		Φ21.5×2 垫片 Φ21.5×2 washer	114060103683	2		
		线夹组件 R10.75(YGEV6) Cable clamp assembly R10.75(YGEV6)	113069800639	2		
		Φ21.5 尾盖 Φ21.5 rear cover	114060103685	2		
YGEV6-P2PHB 插 头/ YGEV6-P2PHB plug (95mm ²)	111000407175	YGEV6-P2PHB 插头组件 YGEV6-P2PHB plug assembly	112010107341	1	/	
		33×3.5NAS001-095SW 针端 子 33×3.5NAS001-095SW pin terminal	114020503298	2	95mm ² (LV216) Φ20.5± 0.4mm	
		YGEV6 屏蔽件-内-95 YGEV6 shielding-inner-95	114022600480	2		
		YGEV6-P2PWHA 屏蔽件-外- 95 YGEV6-P2PWHA shielding- external-95	114022600475	2		
		Φ21.5×2 垫片 Φ21.5×2 washer	114060103683	2		
		线夹组件 R10.75(YGEV6) Cable clamp assembly R10.75(YGEV6)	113069800639	2		
		Φ21.5 尾盖 Φ21.5 rear cover	114060103685	2		

订货信息(总成)/

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

Ordering information (assembly)		separately)				
		产品名称 Product name	产品编号/ Product code	数量/ Qty	接线规格/ Wiring specifications	图示(参考)/ Diagram (for reference)
YGEV6-S2RA 插座/ YGEV6-S2RA plug	111000502953	YGEV6-S2RA 插座组件 YGEV6-S2RA receptacle assembly	112020106944	1	/	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1	/	
		0.63×0.63 插针 0.63×0.63 PIN	110010401011	2	Φ(1.2-1.3)±0.1 (0.25-0.35mm ²)	
YGEV6-S2RB 插座/ GEV6-S2RB plug	111000503872	YGEV6-S2RB 插座组件 YGEV6-S2RB receptacle assembly	112020108140	1	/	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1	/	
		0.63×0.63 插针 0.63×0.63 pin	110010401011	2	Φ(1.2-1.3)±0.1 (0.25-0.35mm ²)	

基本信息/Basic information	
PIN 距/PIN distance	28.8mm
芯数/Number of pins	2 pins
出线方向/Cable outlet direction	90°、180°
壳体材质/Shell material	塑料/plastic
屏蔽功能/Shielding function	是/yes
电气性能/Electrical properties	
额定电压/Rated voltage	1000 V DC(功率/power), 24 V DC(信号/signal)
额定电流/Rated current	400A(95mm ²)
绝缘电阻/Insulation resistance	≥100MΩ
耐电压/Withstand voltage	3000 V AC(功率/power), 1000 V AC(信号/signal)
HVIL	是/yes
机械性能/Mechanical properties	
机械寿命 /Life cycles	≥50 次/times
振动/Vibration	USCAR V2
冲击/Shock	USCAR V2
耐环境性能/Environmental resistance properties	
工作温度/Ambient temperature	-40℃ ~ +125℃
相对湿度/Humidity range	95%(40℃时/at 40℃)
盐雾/Salt spray	96h
防护等级/IP rating	IP67&IP6K9K(头座对插/ plug and receptacle are mating)
污染等级/Pollution level	2
海拔要求/Altitude requirements	≤5000m
材料/涂覆/外观/Materials/Finish/Outline	

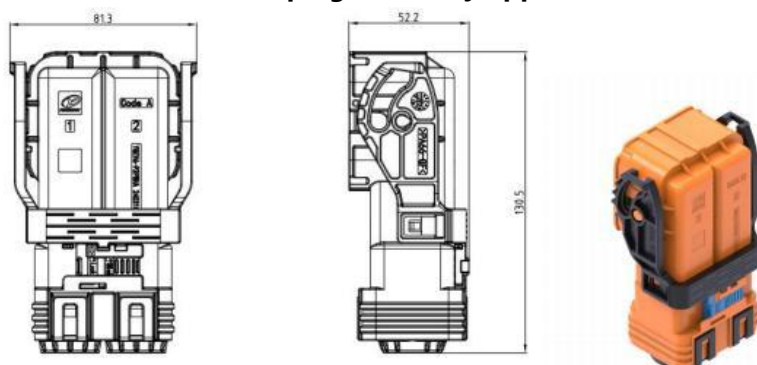
壳体/Shell	PA66
屏蔽/Shielding	铜合金/copper alloy
标准及认证/Standards and certifications	
阻燃等级/Flame retardant rating	UL94 V-0(塑料/plastic)、HB(橡胶/rubber)
环保要求/Environmental requirements	RoHS 2.0

• 技术数据/Technical data

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

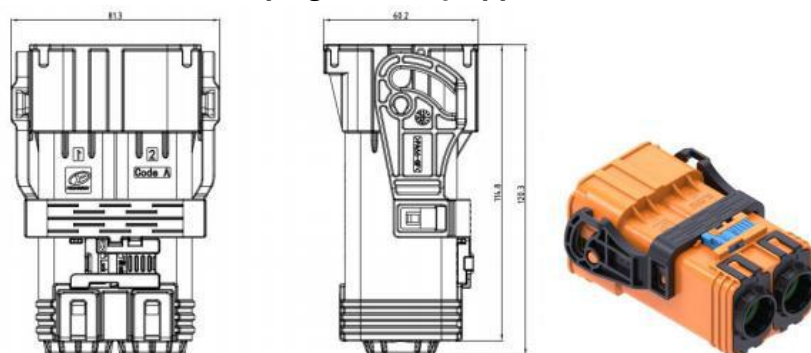
1.YGEV6-P2PWH 系列插头总成外形(未注公差: ± 0.5)

YGEV6-P2PWH series plug assembly appearance (tolerance not specified: ± 0.5)



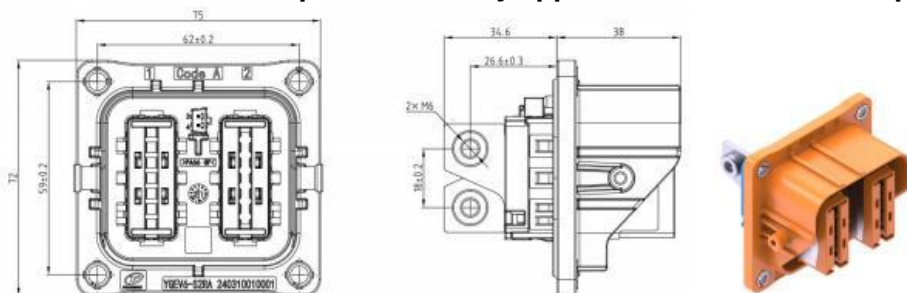
2.YGEV6-P2PH 系列插头总成外形(未注公差: ± 0.5)

YGEV6-P2PH series plug assembly appearance (tolerance not specified: ± 0.5)



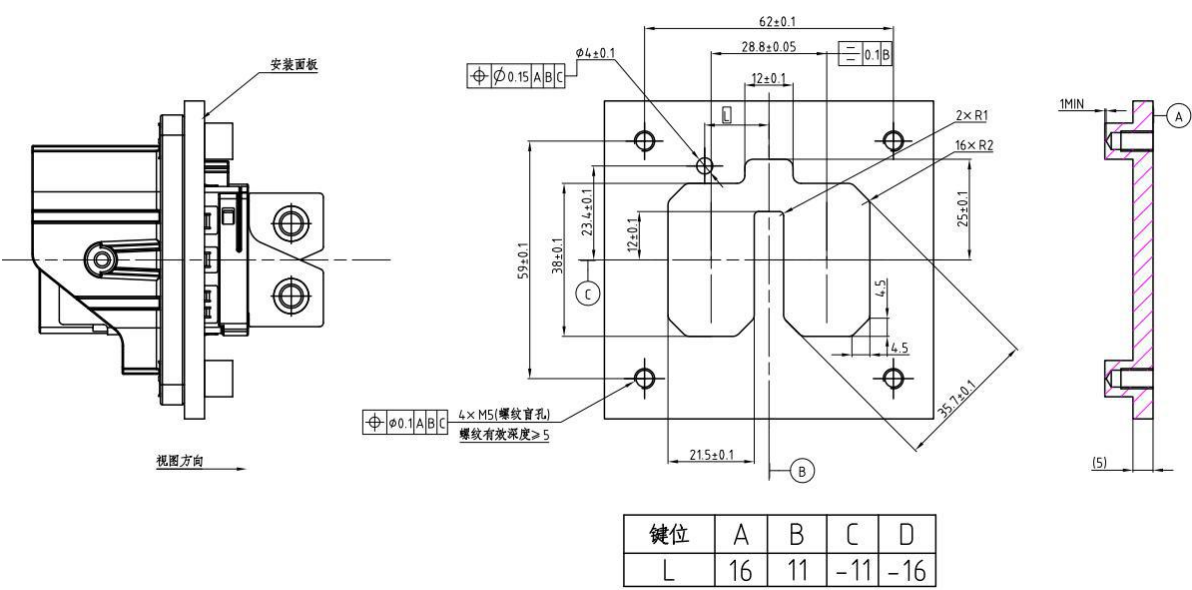
3.YGEV6-S2R 系列插座总成外形(未注公差: ± 0.5)

YGEV6-S2R series receptacle assembly appearance (tolerance not specified: ± 0.5)



4.YGEV6-S2R 系列插座安开孔尺寸(未注公差：±0.1)

YGEV6-S2R series receptacle mounting hole dimension (tolerance not specified: ±0.1)



• 安装说明/Installation

专用工具/Special tools	
拆卸工具/Disassembly 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℃ to 30℃. 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.