

技术规格书A2/Technical Specification A2

YG998C-2pin系列电连接器

YG998C-2pin Series Electrical Connector

• 产品概述/Product instruction



应用场景/Application

适用于电动汽车的电池、电机、PDU、三合一控制器等电气连接。

Suitable for electrical connections in EV, such as those for battery, motor, PDU (Power Distribution Units), and three-in-one controllers.

优势/Advantages

✓ 360 度全屏蔽

360-Degree full shielding

✓ 二次互锁及解锁;

Secondary interlock and unlocking

✓ 高压互锁 HVIL;

High-Voltage Interlock (HVIL);

✓ 两端防呆键位采用 2 种不同组合实现防错插功能;

The two-end foolproof key positions adopt two different combinations to achieve the error-proof insertion function.

✓ 插座单独防水;

Waterproofing for the receptacle;

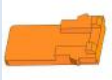
✓ 触电防护。

Touch current protection / Shock protection.

• 订货信息/Ordering information

键位/Key position	I	II
插座名称/Receptacle name	YGC998C-EV-S(2+2)RA1/I 插座 Receptacle	YGC998C-EV-S(2+2)RB1/II 插座 Receptacle
插头编码/Plug code	111000502301	111000502302
对插端名称/Name for plug	YGC998C-EV-P(2+2)PA 插头 Plug	YGC998C-EV-P(2+2)PB 插头 Plug
对插端编号/Code for plug	112010103591	111000404288

订货信息 (总成) / Ordering information (Assembly)		订货信息 (零部件明细, 可单独采购) / Order information (component details, available for separate purchase)				
		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)
YG998C-EV-S(2+2)RA1/I 插座(总)	/	YG998C-EV-S(2+2)RA1/I 插座 YG998C-EV-S(2+2)RA1/I receptacle	111000502301	1	/	

YGC998C-EV-S(2+2)RA1/I receptacle(assembly)		YG722 信号锁紧滑块 YG722 signal locking slider	114069801393	1		
		YG722 信号端子 YG722 signal terminal	110010400124	2		
YGC998C-EV-S(2+2)RB1/II 插座(总) YGC998C-EV-S(2+2)RB1/II receptacle(assembly)	/	YGC998C-EV-S(2+2)RB1/II 插座 YGC998C-EV-S(2+2)RB1/II receptacle	111000502302	1	/	
		YG722 信号锁紧滑块 YG722 signal locking slider	114069801393	1		
		YG722 信号端子 YG722 signal terminal	110010400124	2		

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		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)
YGC998C-EV-P(2+2)PA 插头 (50mm ²)	/	YGC998C-EV-P(2+2)PA 插头 YGC998C-EV-P(2+2)PA plug	112010103591	1	/	
		YG998C 插针组件 Bφ12-银 YG998C pin assembly Bφ12-silver	113020101118	2	50mm ² Φ17.5 (+0.5, -0.5) mm	
		YG998B 封线体挡片 YG998B cable seal block	114039803053	2		
		YG998B 插头封线体-50mm ² YG998B plug cable seal-50mm ²	114050501314	2		
		YG998B 尾夹-50mm ² (屏蔽) YG998B tail clip -50mm ² (shielded)	114069804136	2		
		YG998C 插头屏蔽套组件 B(50mm ²) YG998C plug shielding sleeve assembly B (50mm ²)	113029800486	2		
		YG998C 屏蔽内套管(50mm ²) YG998C shielding inner sleeve (50mm ²)	114029801724	2		
YGC998C-EV-P(2+2)PA 插头 (50mm ² -LV216) YGC998C-EV-P(2+2)PA plug (50mm ² -LV216)	/	YGC998C-EV-P(2+2)PA 插头 YGC998C-EV-P(2+2)PA plug	112010103591	1	/	
		YG998C 插针组件 Bφ12-银 YG998C pin assembly Bφ12-silver	113020101118	2	50mm ² (LV216) Φ15.8 (0, -0.6) mm	
		YG998B 封线体挡片 YG998B cable seal block	114039803053	2		
		YG998B 插头封线体-C YG998B plug cable seal-C	114050501297	2		

	YG998C 尾夹-50mm ² (216 屏蔽) YG998 tail clip -50mm ² (216 shielded)	114060102475	2		
	YG998C 插头屏蔽套组件 A YG998C plug shielding sleeve assembly A	113021600019	2		
	YG998B 屏蔽垫套 (LV216-50mm ²) YG998B shielding gasket (LV216-50mm ²)	114029801461	2		

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		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)
YGC998C-EV-P(2+2)PB 插头 (50mm ²) YGC998C-EV-P(2+2)PB plug (50mm ²)	/	YGC998C-EV-P(2+2)PB 插头 YGC998C-EV-P(2+2)PB plug	111000404288	1	/	
		YG998C 插针组件 Bφ12-银 YG998C pin assembly Bφ12-silver	113020101118	2	50mm ² Φ17.5 (+0.5, -0.5) mm	
		YG998B 封线体挡片 YG998B cable seal block	114039803053	2		
		YG998B 插头封线体-50mm ² YG998B plug cable seal-50mm ²	114050501314	2		
		YG998B 尾夹-50mm ² (屏蔽) YG998B tail clip -50mm ² (shielded)	114069804136	2		
		YG998C 插头屏蔽套组件 B(50mm ²) YG998C plug shielding sleeve assembly B (50mm ²)	113029800486	2		
		YG998C 屏蔽内套管(50mm ²) YG998C shielding inner sleeve (50mm ²)	114029801724	2		
YGC998C-EV-P(2+2)PB 插头 (50mm ² -LV216) YGC998C-EV-P(2+2)PB plug (50mm ² -LV216)	/	YGC998C-EV-P(2+2)PB 插头 YGC998C-EV-P(2+2)PB plug	111000404288	1	/	
		YG998C 插针组件 Bφ12-银 YG998C pin assembly Bφ12-silver	113020101118	2	50mm ² (LV216) Φ15.8 (0, -0.6) mm	
		YG998B 封线体挡片 YG998B cable seal block	114039803053	2		
		YG998B 插头封线体-C YG998B plug cable seal-C	114050501297	2		
		YG998C 尾夹-50mm ² (216 屏蔽) YG998C tail clip -50mm ² (216 Shielded)	114060102475	2		

	YG998C 插头屏蔽套组件 A YG998C plug shielding sleeve assembly A	113021600019	2		
	YG998B 屏蔽垫套 (LV216-50mm²) YG998B shielding gasket (LV216-50mm²)	114029801461	2		

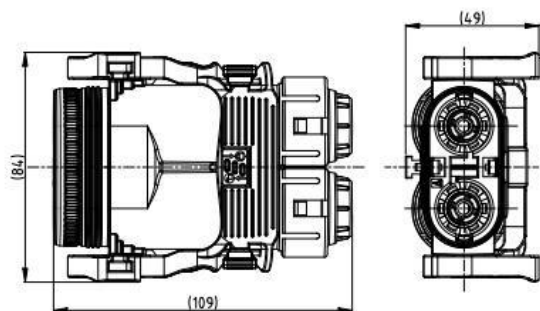
• 技术数据/Technical data

基本信息/Basic information	
PIN 距/Pin pitch	30mm
芯数/Numbers of pins	2pin
线缆规格/Cable specification	50mm² (LV216) /外径/outer diameter Φ14.4 (0, -0.6) mm 50mm² /外径/outer diameter Φ17.5 (+0.5, -0.5) mm
出线方向/Cable outlet direction	180°
电气性能/Electrical specification	
额定电压/Rated voltage	1000 V (功率/power) , 24 V (信号/signal)
额定电流/Rated current	200A (50mm²)
耐电压/Withstand voltage	3500 V (功率/power) , 1000 V (信号/signal) (50Hz AC 常态/normal)
绝缘电阻/Insulation resistance	≥500MΩ (功率/信号/Power/signal) (1000V DV)
HVIL (Y/N)	Y
屏蔽 (Y/N) /Shielding	Y
机械性能/Mechanical specification	
机械寿命/Life cycles	≥50 次/Times
振动等级/Vibration and level	V2 (QC/T 1067.1)
耐环境性能/Environmental resistance specification	
工作温度/Operating temperature	-40°C ~ +125°C
防护等级/IP rating	IP67&IP6K9K, IPXXB (未配合状态) , 插座单独 IP67 IP67 & IP6K9K, IPXXB (unmatched), receptacle individually IP67
相对湿度/Humidity range	95% (40°C时/at 40°C)
盐雾/Salt spray	480h
海拔高度/Altitude	≤4000m
材料/涂覆/外观/Materials/Coating/Outline	
参见零部件图纸/See component drawings	
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
执行标准/Implementation standard	QC/T 1067.1、USCAR-37、USCAR-2、GB/T 30038
其它技术数据参见 DV/PV 测试报告/For other technical data, please refer to the DV/PV test report.	

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

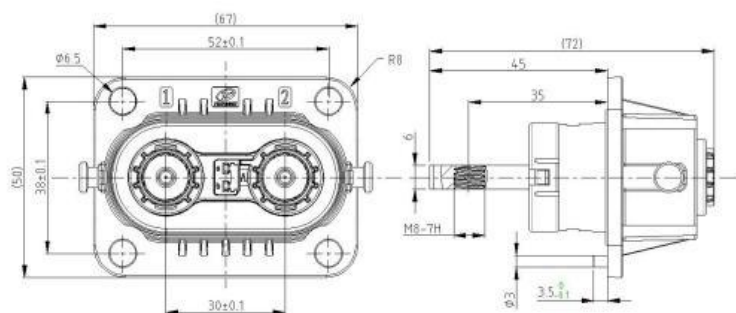
插头总成外形(未注公差: ±0.5)

Plug assembly outline (unspecified tolerance: ±0.5)



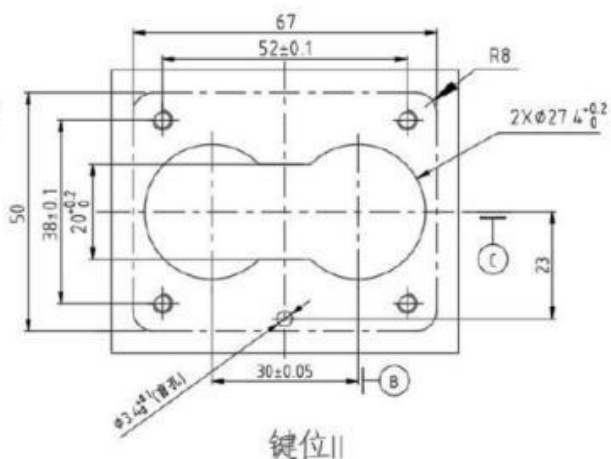
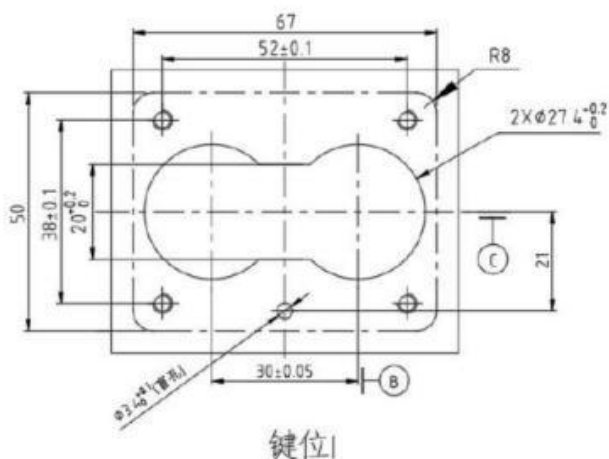
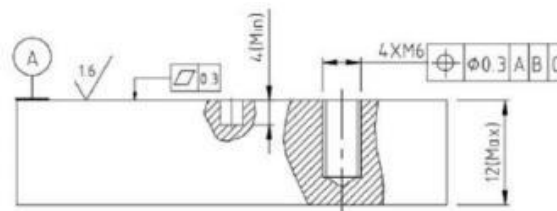
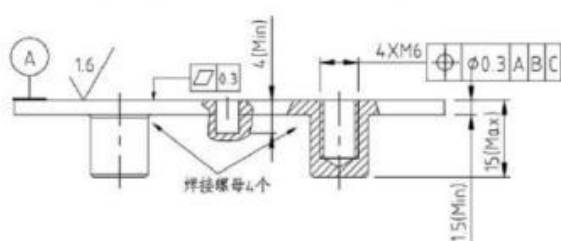
插座总成外形(未注公差: ± 0.5)

Outline of the receptacle assembly (unspecified tolerance: ± 0.5)



插座安装开孔尺寸(未注公差: ± 0.1)

Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



• 安装说明/Installation

专用工具/Specialized tools	
拆卸工具/Disassembly tools	/
送针工具/Pin feeding tool	/
压接工具/Crimping tools	/
其他工具/Other tools	/

• 包装/运输/储存（可选项）/Packaging/Shipping/Storage (optional)

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$\leq 60\%$、温度在$5\sim 30^{\circ}\text{C}$。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 $\leq 60\%$ and a temperature ranging from 5°C to 30°C. The reference storage period is 6 months.
运输要求/ Shipping 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, shipping, 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.