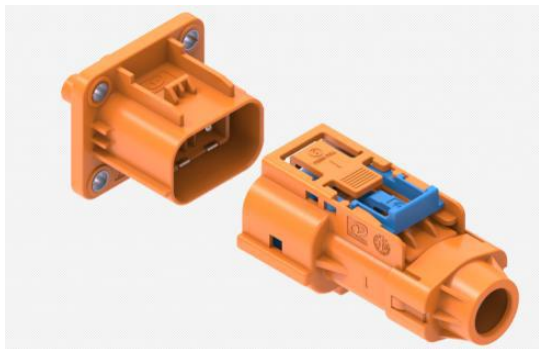


技术规格书A1/Technical Specification A1

YG1139 系列电连接器/YG1139 Series Electrical Connector

• 产品概述/Product instruction



应用场景/Application

适用于电 动车充电机、油泵控制器、气泵控制器、高压盒等的电气连接。

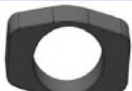
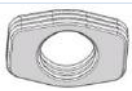
Suitable for electrical connections in electric vehicle chargers, oil pump controllers, air pump controllers, high-voltage boxes, etc.

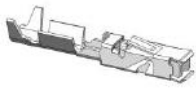
优势/Advantages

- ✓ 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 foolproof key positions at both ends adopt 4 different combinations to achieve the anti-mating function;
- ✓ 插头与插座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。
Plugs and receptacles adopt terminal crimping.

• 订货信息/Ordering information

订货信息/Ordering information	
键位 Key position	I
产品名称/ Product name	YGC1139-EV-S2P 插头/ YGC1139-EV-S2P plug
产品编号/ Product code	112010102900
对插端名称/ Receptacle name	YGC1139-EV-P2R 插座/ YGC1139-EV-P2R receptacle
对插端编号/ Receptacle code	112020103138
注：端子需单独采购，具体采购信息见下针孔件订货信息表/ Note: Terminals need to be purchased separately. Refer to the Contacts Ordering Information table below for details.	

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)
YGC1139-EV-S2P 插头/ YGC1139-EV-S2P plug	112010102900	YGC1139-EV-S2P 插头组件/ YGC1139-EV-S2P plug assembly	/	1	/	
		YG1139 屏蔽垫套/ YG1139 shielding gasket	114030900457	1	(2×6mm ² , 两芯屏蔽成缆 (LV216) Φ12.8 (0/-0.6) / 2×6mm ² , 2-core shielded cabled wires (LV216) Φ12.8 (0/-0.6))	
		YG1139 屏蔽压套/ YG1139 shielding ferrule	114022500354	1		
		YG1139 挡块/ YG1139 baffle	114060102066	1		
		YG1139 封线体/ YG1139 cable seal	114050501226	1		
		YG1139 尾夹/ YG1139 tail clamp	114060102067	1		
YGC1139-EV-P2R 插座/ YGC1139-EV-P2R receptacle	112020103138	YGC1139-EV-P2R 插座/ YGC1139-EV-P2R receptacle	112020103138	1	/	

订货信息 (针孔件, 需单独采购) /Order information (Contacts, need to be purchased separately)			
对应头座/ Plug & Receptacle	插头端/ Plug	插座端/ Receptacle	
产品名称/ Product name	YG1081 插孔组件Φ3-6mm ² -银/ YG1081socket Φ3-6mm ² -silver	YG1139 插针组件Φ3-6mm ² -银/ YG1139pin assemblyΦ3-6mm ² -silver	YG939 信号插孔/ YG939signal socket
产品编号/ Product code	113020601309	113020101034	501021600128
接线规格/ Wiring specification	2×6mm ² (两芯屏蔽成缆, LV216) / 2×6mm ² (2-pin shielded cabled wires, LV216) Φ12.8 (0/-0.6) mm	6mm ² Φ4.9±0.2mm	0.5mm ² Φ1.5±0.2mm
图示 (参考) / Diagram (for reference)			

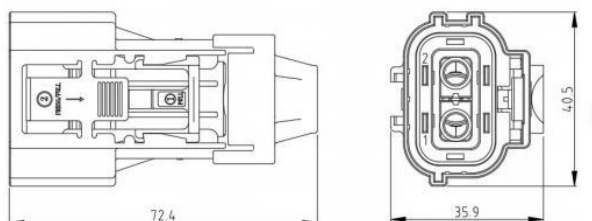
• 技术数据/Technical data

基本信息/Basic information	
PIN 距/PIN pitch	12.1mm
芯数/Numbers of pins	2pin
出线方向/Cable outlet direction	180°
壳体材质/Shell material	塑料/Plastic
屏蔽功能/Shielding function	是/Yes
电气性能/Electrical specification	
额定电压/Rated voltage	800 V DC (功率/power) , 24 V DC (信号/signal)
额定电流/Rated current	40A (6mm 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 specification	
机械寿命/Life cycle	≥50 次/Times
振动/Vibration	GB/T28046.3-2011 中 4.1.2/GB/T28046.3-2011 Clause 4.2.2
冲击/Shock	GB/T28046.3-2011 中 4.2.2/GB/T28046.3-2011 Clause 4.2.2
耐环境性能/Environmental resistance specification	
工作温度/Ambient temperature	-40℃ ~ +125℃
相对湿度/Humidity range	95% (40℃时) /95% (at 40℃)
盐雾/Salt spray	48h
防护等级/IP rating	IP67、IP6K9K (头座对插) / IP67, IP6K9K (When plug and receptacle mated)
污染等级/Pollution level	2
海拔高度/Altitude	≤5000m
材料/涂覆/外观/Materials/Finish/Outline	
壳体/Shell	PA66-GF
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/rubbere)
环保要求/Environment requirements	RoHS 2.0

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

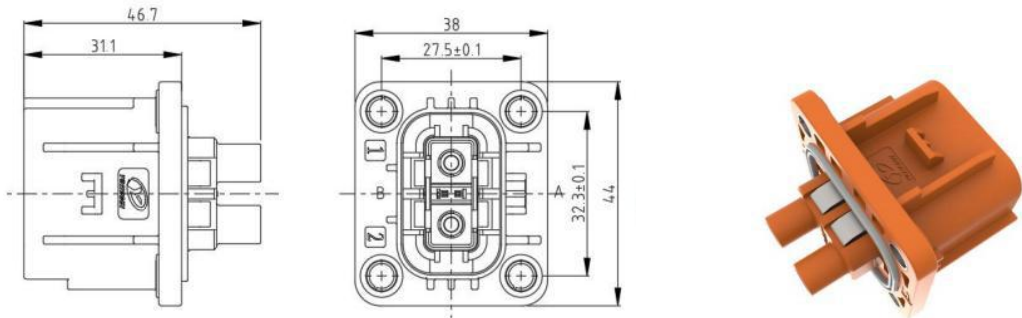
1.YGC1139-EV-S2P 系列插头外形(未注公差: ±0.5)

YGC1139-EV-S2P series plug outline (unspecified tolerance: ±0.5)



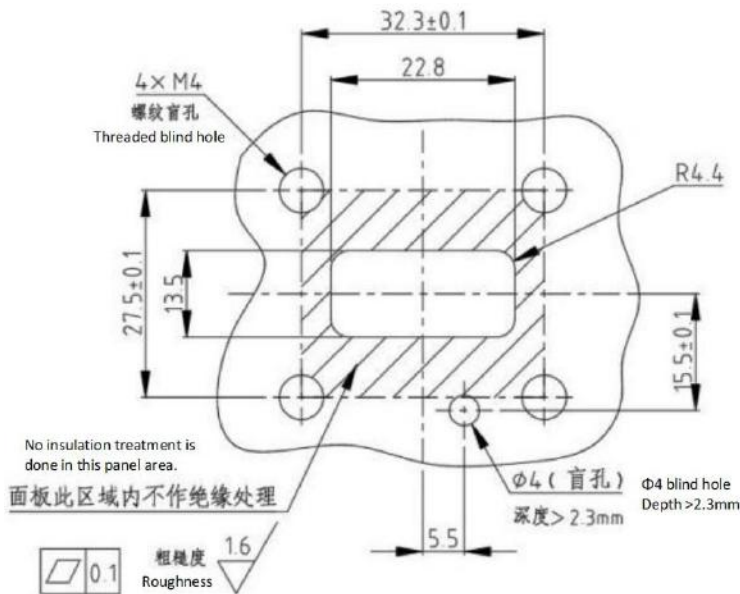
2.YGC1139-EV-P2R 系列插座总成外形(未注公差: ±0.5)

YGC1139-EV-P2R series receptacle assembly outline (unspecified tolerance: ±0.5)



3.YGC1139-EV-P2R 系列插座安装开孔尺寸(未注公差: ±0.1)

YGC1139-EV-P2R series receptacle mounting hole dimensions (unspecified tolerance: ±0.1)



• 安装说明/Installation

专用工具/Special tools	
拆卸工具/ Disassembly tool	功率插孔拆卸辅助工具 (RTSCA-05 拆卸工具) /Power socket disassembly tool (RTSCA-05 disassembly tool) 功率插针拆卸辅助工具 (RTSCA-05 拆卸工具) /Power pin disassembly tool (RTSCA-05 disassembly tool) 信号插孔拆卸辅助工具 (GZ939-02-03-00 拆卸工具) /Signal pin disassembly tool (GZ939-02-03-00 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.
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