

技术规格书A0/Technical Specification A0

YGC1033系列电连接器/YGC1033 Series Electrical Connectors

• 产品概述/Product instruction



物料简介/Introduction

✓ 该系列连接器为双芯屏蔽连接器，体积小、功率大、结构简单、操作便捷

This series of connectors are dual-pin shielded connectors, which are small in size, high in power, simple in structure, and easy to operate.

✓ 该产品属于高压大电流连接器，主要应用新能源汽车电控及电池能源系统

This product is a high-voltage and high-current connector, mainly used in the electronic control and battery power systems of new energy vehicles.

✓ 防护等级：插头、插座满足IPXXB，正常对插锁紧后，IP67&IP6K9K

IP rating: Plugs and receptacles meet IPXXB standards; after normal mating and locking, they meet IP67 and IP6K9K standards.

✓ 插头连接器外壳为铝合金钝化工艺，360°屏蔽，满足高耐盐雾要求

The plug connector housing is made of aluminum alloy with passivation process, providing 360 ° shielding and meets the requirements for high salt spray resistance.

✓ 插头连接器部分零件需根据接线规格单独进行订购

Some plugs and connector components need to be ordered separately according to the wiring specifications.

• 订货信息/Ordering information

序号 No.	直式插头组件型号 180° plug assembly model	120°插头组件型号 120° plug assembly model	90°插头组件型号 90° plug assembly model	插座总成型号 Receptacle assembly model	防呆键位 Mistake-proof key position
1	YGC1033A-EV-S2P/ I * 112010103635	YGC1033A-EV-S2PW/ I * 112010104906	YGC1033D-EV-S2P/I* 111000404645	YGC1033A-EV-P2R/ I 112022001075	I
2	YGC1033A-EV-S2PN/ I 112010103616	/	/	YGC1033A-EV-P2RN/ I 112022001074	
	YGC1033A-EV-S2PN/ I - YW960 112010104599				
	YGC1033B-EV-S2PN/ I 112010105165				

注：“*”为主推型

Note: The "*" indicates the recommended model.

配件（根据适配电缆进行选择，单独采购）

Components (selected according to the compatible cable, purchased separately)

YG1033A直式插头配件（180°出线）/YG1033A 180°plug components (180° cable outlet)				
配件代码/ Component code	适配线缆（线缆外径）/ Compatible cable (Cable outer diameter)	零件名称/ Components name	零件编码/ Components code	配套 数量/ Qty
A	35mm ² 屏蔽电缆 35mm ² shielded cable (Φ14.6~Φ15.4)	YG1033A插孔组件Φ10-35mm ² -银 YG1033A socket assembly Φ10-35mm 2 - silver	113020601607	2
		YG1033A插头屏蔽外套 YG1033A plug shielding outer sleeve	114022600312	2
		YG1033A插头屏蔽内套-35 YG1033A plug shielding inner sleeve-35	114022600322	2
		YG1033-2封线体 YG1033-2 cable seal	114050501573	2
		YG1033A插头尾盖-35 YG1033A plug rear cover-35	114069804180	2
B	35mm ² LV216屏蔽电缆 35mm ² LV216 shielded cable (Φ14.4 -0.6 mm)	YG1033A插头屏蔽外套-50 (LV216) YG1033A plug shielding outer sleeve-35 (LV216)	114022600333	2
		YG1033A插头屏蔽内套-35 (LV216) YG1033A plug shielding inner sleeve-35 (LV216)	114022600345	2
		YG1033A插孔组件Φ10-35mm ² -银 YG1033A socket assembly Φ10-35mm ² -silver	113020601607	2
		YG1033A-1 封线体(216) YG1033A-1 cable seal (216)	114050501926	2
		Φ14.5尾盖（橙） Φ14.5 rear cover (orange)	114069805793	2
C	50mm ² 屏蔽电缆 50mm ² shielded cable (Φ17.5±0.5mm)	YG1033A插孔组件Φ10-50mm ² -银 YG1033A socket assembly Φ10-50mm 2 - silver	113020601608	2
		YG1033A插头屏蔽外套 YG1033A plug outer sleeve	114022600312	2
		YG1033A插头屏蔽内套-50 YG1033A plug shielding inner sleeve-50	114022600323	2
		YG1033插头封线体-50mm ² YG1033 plug cable seal - 50mm 2	114050501410	2
		YG1033A插头尾盖-50 YG1033A Plug rear cover-50	114069804181	2
D	50mm ² LV216屏蔽电缆 50mm 2 LV216 Shielded cable (Φ15.8 -0.6 mm) 501030101368	YG1033A插孔组件Φ10-50mm ² -银 YG1033A socket assembly Φ10-50mm 2 - silver	113020601608	2
		YG1033A插头屏蔽外套-50 (LV216) YG1033A plug shielding outer sleeve-50 (LV216)	114022600333	2
		YG1033A插头屏蔽内套-50 (LV216) YG1033A plug shielding inner sleeve-50 (LV216)	114022600332	2

		YG1033A插头封线体-50mm ² (LV216) YG1033A plug cable seal - 50mm 2 (LV216)	114050501411	2
		YG1033A插头尾盖-50 (LV216) YG1033A plug rear cover-50 (LV216)	114069804287	2

YG1033A弯式插头配件 (120°出线) /YG1033A Right-angle plug accessory (120° cable outlet)

配件代码/ Component code	适配线缆 (线缆外径) / Compatible cable (Cable outer diameter)	适配线缆 (线缆外径) / Compatible cable (Cable outer diameter)	零件编码/ Components code	配套数量/ Qty
E	50mm ² LV216屏蔽电缆 (Φ15.8 -0.6 mm) (501030101368) 50mm ² LV216 shielded cable	YG1033A转接端子50mm ² YG1033A adapter terminal 50mm 2	114020100846	2
		YG1033A插头屏蔽外套-50 (LV216) YG1033A plug shielding outer sleeve-50 (LV216)	114022600333	2
		YG1033A插头屏蔽内套-50 (LV216) YG1033A plug shielding inner sleeve-50 (LV216)	114022600332	2
		YG1033A插头尾部组件 YG1033A plug rear assembly	113990001272	2
		YG1033A 闷盖组件 YG1033A Blind cover assembly	113011601001	2
		十字槽凹穴六角头组合螺钉GB/T 9074.13 M6×12 Cross recessed hexagon bolt with indentation	501010100573	2

YG1033B直式插头配件 (180°出线) /YG1033B 180° plug components (180° cable outlet)

配件代码/ Component code	适配线缆 (线缆外径) / Compatible cable (Cable outer diameter)	适配线缆 (线缆外径) / Compatible cable (Cable outer diameter)	零件编码/ Components code	配套数量/ Qty
F	50mm ² 屏蔽电缆 (ISO19642) (Φ14.9±0.3mm)	YG1033A插孔组件Φ10-50mm ² -银 YG1033A socket assembly Φ10-50mm ² -silver	113020601608	2
		YG1033A插头屏蔽外套-50 (LV216) YG1033A plug shielding outer sleeve-50 (LV216)	114022600333	2
		YG1033B插头屏蔽内套-50B YG1033B plug shielding inner sleeve	114029801762	2
		YG1033B插头封线体-50B YG1033B plug cable seal 50B	114050501512	2
		YG1033B插头尾盖-50B YG1033B Plug rear cover-50B	114069804838	2

YG1033D弯式插头配件 (90°出线) (插头总成) /YG1033D 90°plug components (90° Cable outlet) (Plug assembly)

H	50mm ² 非屏蔽电缆 (Φ13.2 0/-0.8mm) 50mm ² unshielded cable	YGC1033D-EV-S2P/I插头 YGC1033D-EV-S2P/I plug	111000404645	1
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插座配件/Receptacle assembly

序号/ No.	备注/ Remarks	零件名称/ Components name	零件编码/ Components code	配套数量/ Qty
1	选配 Optional	YG1033A插座防尘盖 YG1033A receptacle dust cover	114069804815	1

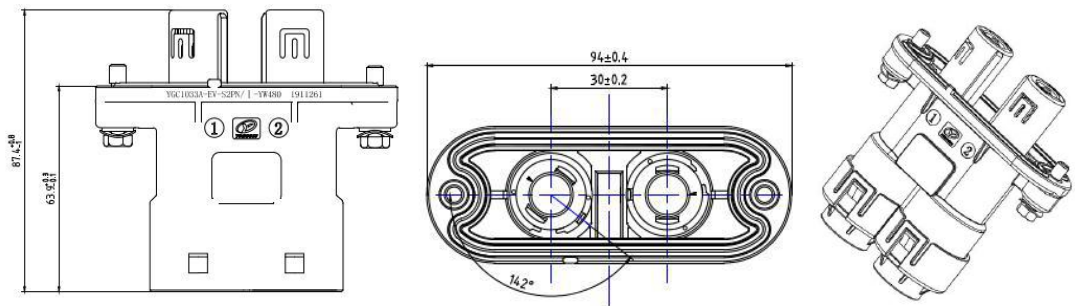
• 技术数据/Technical data

电气性能/Electrical specification	
额定电流/Rated current	150A@35mm² 屏蔽电缆; 200A@50mm² 屏蔽电缆; 3A@0.5或0.75mm² 非屏蔽电缆 150A@35mm² shielded cable; 200A@50mm² shielded cable; 3A@0.5 or 0.75mm² unshielded cable
额定电压/Rated voltage	1000V(功率), 24V(信号) 1000V (power), 24V (signal)
耐电压/Withstand voltage	3000V(功率), 1000V(信号);(50Hz AC常态);漏电流≤5mA 3000V (power), 1000V (signal); (50Hz AC normal); leakage current ≤5mA
接触电阻/Contact resistance	≥5000 MΩ(功率), ≥1000 MΩ(信号); (常态) ≥5000 MΩ (power), ≥1000 MΩ (signal); (normal operation)
HVIL	可选/Optional
机械性能/Mechanical specification	
机械寿命/Life cycles	50次/times
防护等级/IP rating	IP67&IP6K9K&IP68 (1m水深, 24小时) (对插状态) IP 67 & IP6K9K & IP68 (1m water depth, 24 hours) (mating configuration)
插座与插座防尘盖插合后/ After the receptacle and dust cover are mated	IP3X
工作环境/Operation environment	
工作温度/Ambient temperature	-40℃ ~ +125℃
相对湿度/Humidity range	≤90% (40℃)
阻燃等级/Flame retardant rating	UL94 V-0
材质及盐雾等级/Material and salt spray rating	
插座壳体/Receptacle shell	材质PA66-GF30 (黑) Material PA66-GF30 (Black)
插头壳体/Plug housing	材质ADC12, 中性盐雾96h (240h&480h&960h) Material ADC12, salt spray test 96h (240h & 480h & 960h)

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

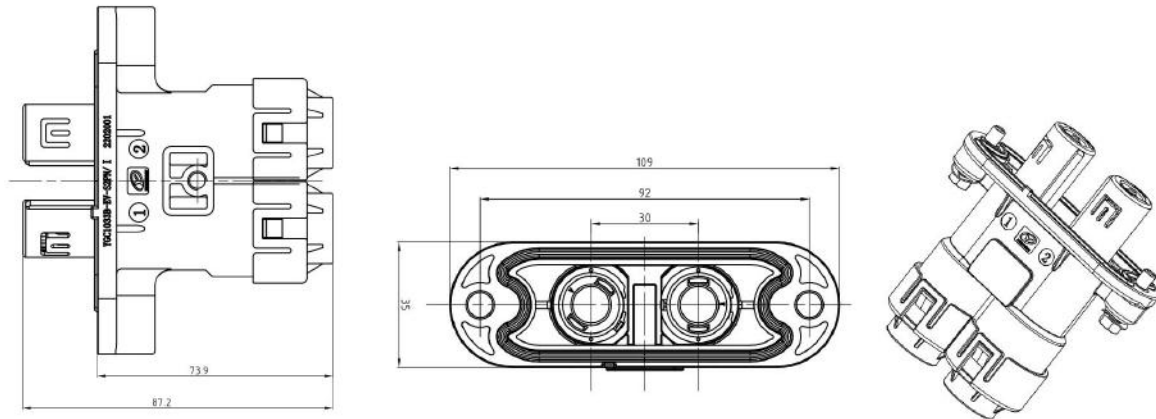
1.插头外形尺寸 (YG1033A直式)

Plug outline dimensions (YG1033A straight type)



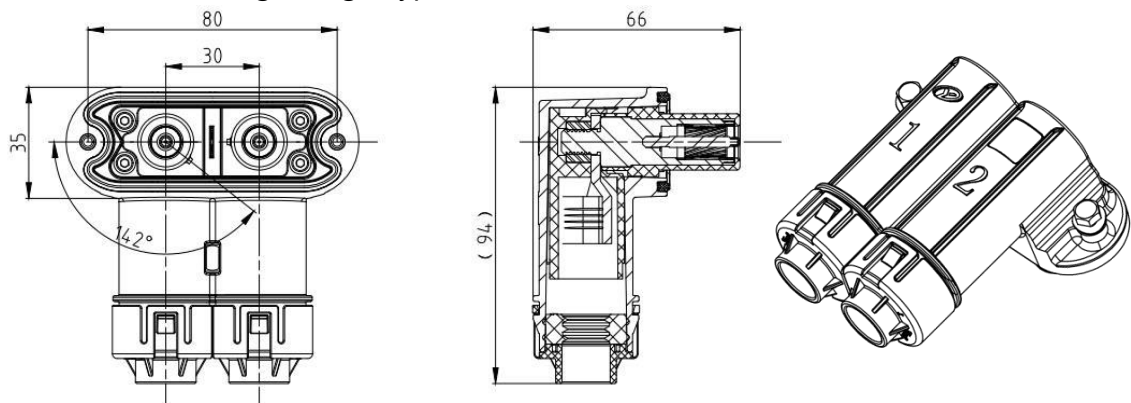
2. 插头外形尺寸 (YG1033B直式)

Plug dimensions (YG1033B straight type)



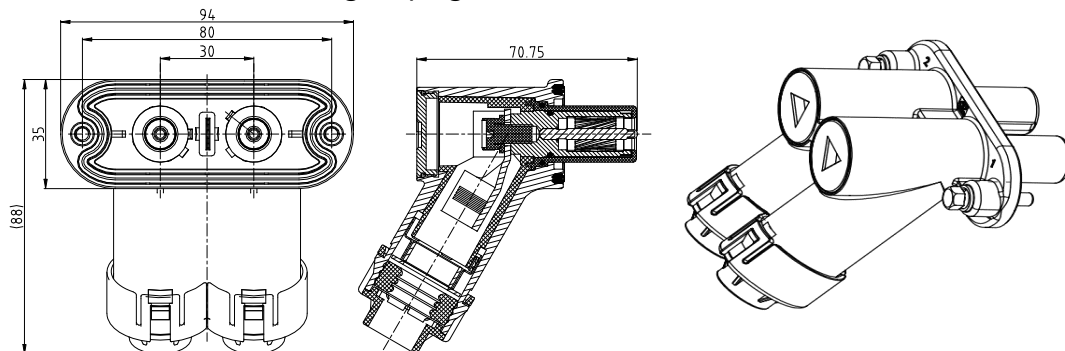
3. 插头外形尺寸 (YG1033D弯式)

Plug outer dimensions (YG1033D right-angle type)



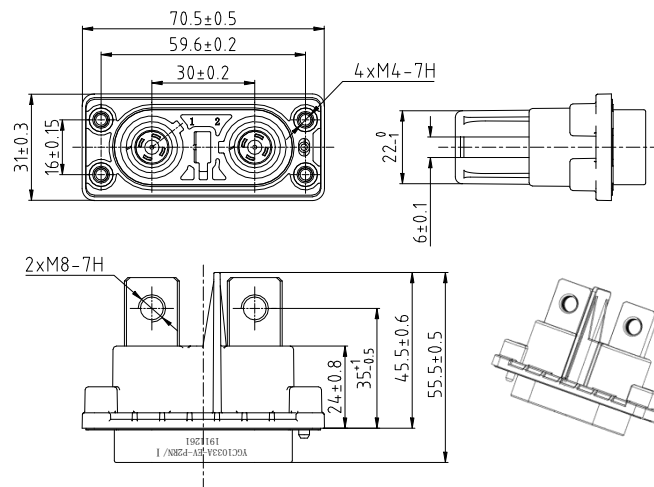
4. 插头外形尺寸 (YG1033A弯式120°)

Plug outline dimensions (YG1033A 120° angled plug)



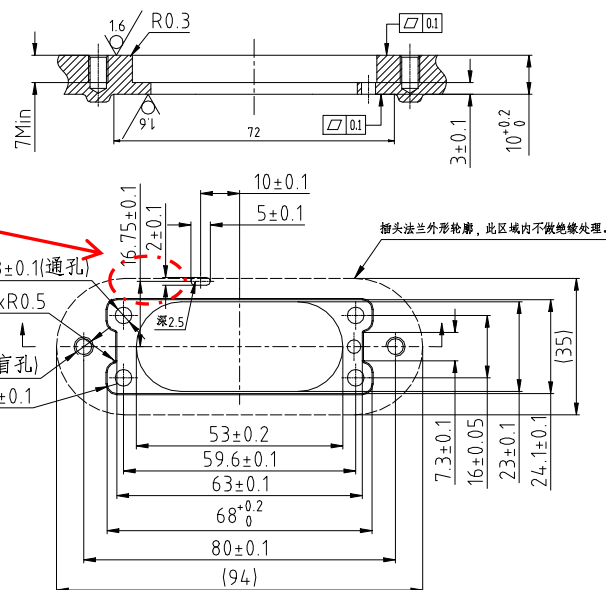
5.插座外形尺寸图

Receptacle outline dimensions



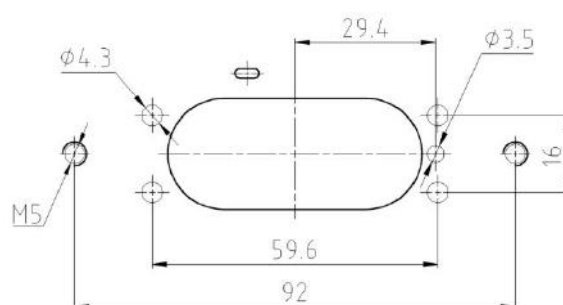
6.安装尺寸 (YG1033A&YG1033D)

Mounting dimensions (YG1033A & YG1033D)



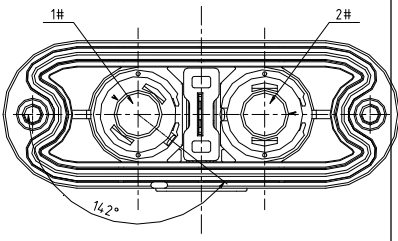
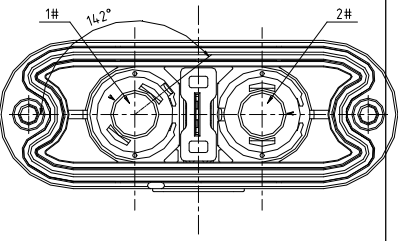
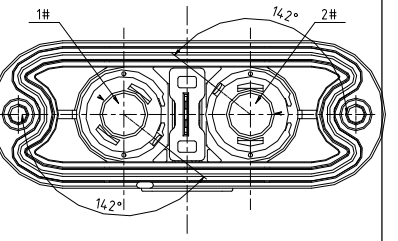
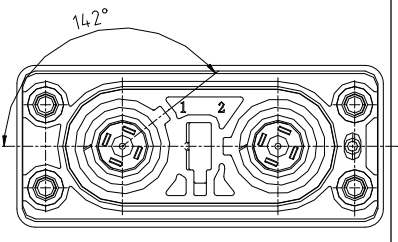
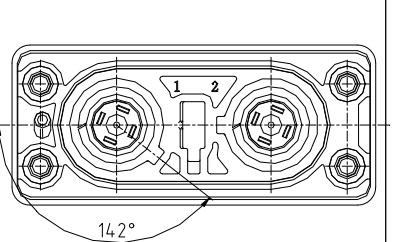
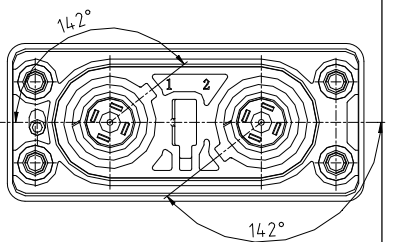
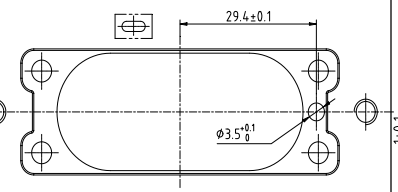
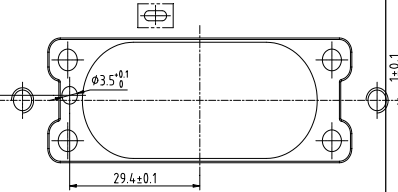
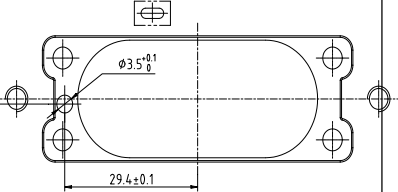
7.安装尺寸 (YG1033B)

Mounting dimensions (YG1033B)



8.防呆键位示意及尺寸

Schematic diagram and dimensions of the mistake-proof key position

键位/ Key position	I	II	III
插头/ Plug			
插座/ Receptacle			
安装 Mounting			

• 储存/Storage

包装储存&转运说明/Storage& transportation	
存放要求/ Storage requirement	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℃。 Components 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℃.
端子的防护/ Terminal protection	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.