

	产品名称 Product name	YGC583-RJ45连接器 YGC583-RJ45 connector	文件编号 File number	/
	产品编码 Product code	/	版 本 Version	A7

YGC583-RJ45 连接器

YGC583-RJ45 Electrical Connectors

技术规格书

Technical Specifications

编制 Prepared by /日期 Date: 龙浩洋 Long Haoyang / 2025.08.06

审核 Reviewed by/日期 Date: 姚 杰 Yao Jie / 2025.08.06

批准 Approved by/日期 Date: 于宗海 Yu Zomghai / 2025.08.06

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更改和修订 Changes and revisions

☐ 更改 Change	☐ 修订 Revision	日期 Date	更改或修订主要事项 Change or revision of major matters	修改/修订人 Modifier/	批准人 Approver
☐ 更改 Change	☐ 修订 Revision	2023.8.16	增加产品型号 Added product models	费柯儒 Fei Keru	吴洪 Wu Hong
☐ 更改 Change	☐ 修订 Revision	2023.10.8	调整技术参数，增加认证信息 Revise technical specifications and add	费柯儒 Fei Keru	吴洪 Wu Hong
☐ 更改 Change	☐ 修订 Revision	2023.12.6	调整安装开孔尺寸 Adjust mounting cutout dimensions.	费柯儒 Fei Keru	吴洪 Wu Hong
☐ 更改 Change	☐ 修订 Revision	2023.12.2 6	增加插座新型号 Add new receptacle model	费柯儒 Fei Keru	吴洪 Wu Hong
☐ 更改 Change	☐ 修订 Revision	2025.7.27	更新产品图示及尺寸 Update product illustration and dimensions.	龙浩洋 Long Haoyang	于宗海 Yu Zonghai
☐ 更改 Change	☐ 修订 Revision	2025.8.6	更新产品推荐安装开孔尺寸及贮存期 Update the recommended mounting hole dimension and storage period of the product	龙浩洋 Long Haoyang	于宗海 Yu Zonghai

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1.产品型号及编码Model and order no.

1.1.产品明细 Product detail

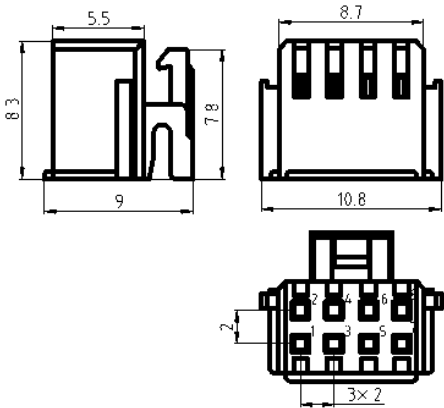
类型 Type	序号 No.	产品型号 Product model	产品编码 Order no.	备注 Note
插头 Plug	1	YGC583-RJ45PA 插头 YGC583-RJ45PA plug	112030106715	无水晶头 Without RJ45 plug
	2	YGC583-RJ45PB 插头 YGC583-RJ45PB plug	112030107206	配水晶头 With RJ45 plug
插座 Receptacle	1	YGC583-RJ45RC 插座 YGC583-RJ45RC receptacle	112040106843	包含防护盖, PCB 接网口 With protective cover, PCB to network port
	2	YGC583-RJ45RD 插座 YGC583-RJ45RD receptacle	112040106909	包含防护盖, PCB 焊线 With protective cover, PCB soldered wires
	3	YGC583-RJ45RG 插座 YGC583-RJ45RG receptacle	112040107746	包含防护盖, PCB 接转接座 With protective cover, PCB to adapter
	4	YGC583-RJ45RE 插座 YGC583-RJ45RE receptacle	112040106966	不含防护盖, PCB 接网口 Without protective cover, PCB to network port
	5	YGC583-RJ45RF 插座 YGC583-RJ45RF receptacle	112040106965	不含防护盖, PCB 焊线 Without protective cover, PCB soldered wires
	6	YGC583-RJ45RH 插座 YGC583-RJ45RH receptacle	112040107871	不含防护盖, PCB 接转接座 Without protective cover, PCB to adapter

1.2.附件明细 Attachment details (单独订购 Order separately)

1.2.1.转接插头&插孔(配合 YGC583-RJ45RG 插座/YGC583-RJ45RH 插座使用)

Switch plug&Socket (Be used with YGC583-RJ45RG Receptacle/YGC583-RJ45RH receptacle)

1.2.1.1.转接插头型号&外形 Switch plug model & outline dimension

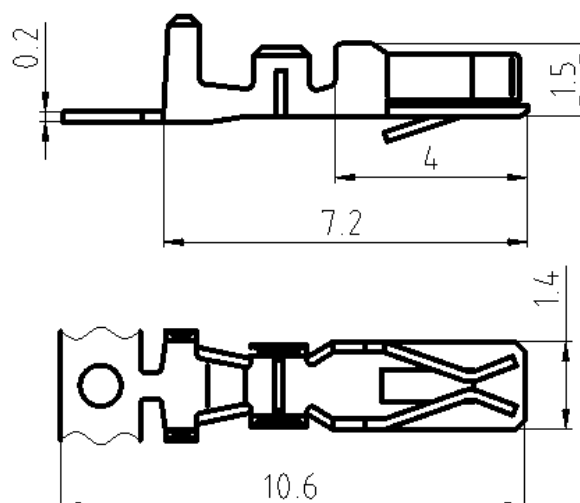


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产品型号 Product model	产品编码 Order no.
PHB2.0 插头(8 芯) PHB2.0 plug(8 pin)	112010106334

1.2.1.2 转接插孔型号&外形 Switch socket model & outline dimension



产品型号 Product model	产品编码 Order no.
H50JCA001-A24TC 孔端子 H50JCA001-A24TC socket contact	114021003232

2.技术参数Specification

2.1.电气特性 Electrical characteristic

芯数 Numbers of pins	8
额定电流 Rated current	0.2A
额定电压 Rated voltage	32V
耐电压 Withstand voltage	500V AC 50Hz
接触电阻 Contact resistance	≤200mΩ(cable termination to cable termination)
绝缘电阻 Insulation resistance	≥500MΩ

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传输速率 Transfer rate	100M
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2.2.机械特性 Mechanical characteristics

机械寿命 Durability	≥750 cycles
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2.3.材料及表面处理 Material and finish

材料 Material	绝缘体：工程塑料; Insulator: Engineering plastics; 橡胶件：硅橡胶; Rubber parts: silicone rubber; 针孔件：铜合金 .Contacts: copper alloy.
表面处理 Surface treatment	镀金/镀镍 Gold plating/nickel plating
阻燃等级 Flame retardant rating	UL94 V0

2.4.工作环境 Operating environment

工作温度 Operating temperature	-25℃ ~ +85℃
允许湿度 Relative humidity	5% ~ 95%
防护等级 IP rating	IP67

3.物料简介Introduction

3.1.应用场景 Application

该连接器插座两端可连接 RJ45 水晶头，并满足 IP67 防水要求，具有性能可靠、外形简洁、带屏蔽连接功能，能很好的满足网络通信的信号传输使用要求，广泛用于网络通信及储能设备内部通信中。

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The connector receptacle can be connected to RJ45 crystal head at both ends, and meets the IP67 waterproof requirements, with reliable performance, simple appearance, shielded connection function, can well meet the signal transmission requirements of network communication, widely used in network communication and internal communication of energy storage equipment.

3.2.环保信息 Environment protect data: RoHS 2.0

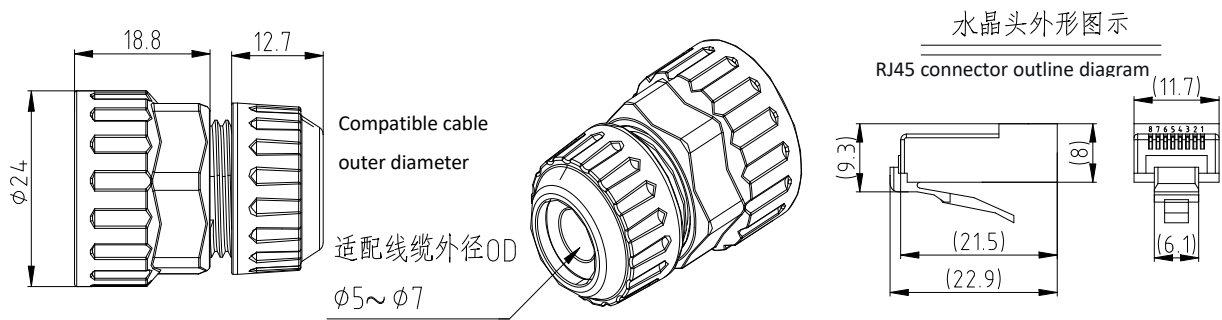
3.3.安规信息 Security authentication: TUV、UL、 CE

4.外形尺寸Outline dimension

4.1.产品外形尺寸 Product outline dimension

4.1.1.YGC583-RJ45PA/YGC583-RJ45PB 插头外形尺寸

YGC583-RJ45PA/YGC583-RJ45PB plug outline dimension

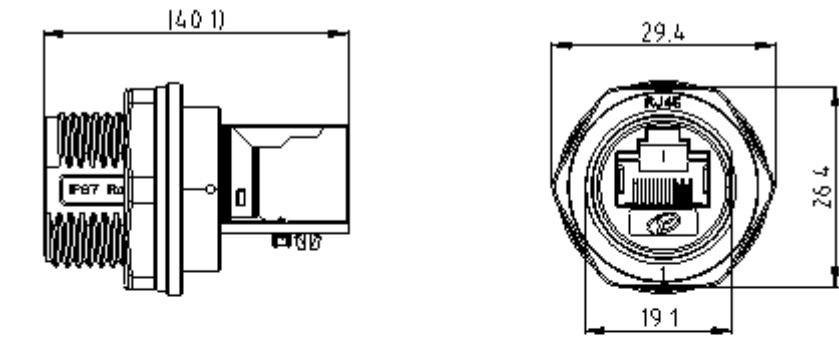


4.1.2.YGC583-RJ45RC/YGC583-RJ45RE 插座外形尺寸

YGC583-RJ45RC/YGC583-RJ45RE receptacle outline dimension

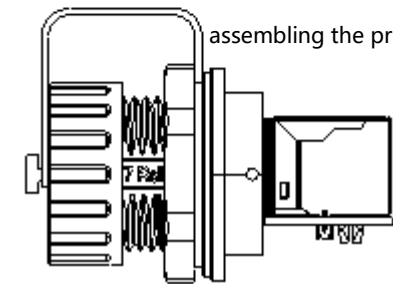
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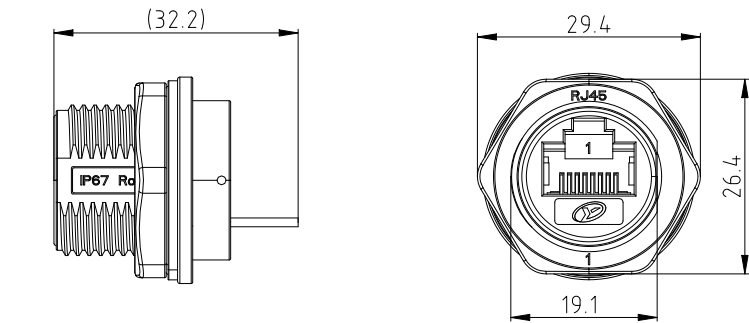
插座装配防护盖组件后外形图示

Diagram of the appearance of the receptacle after assembling the protective cover components



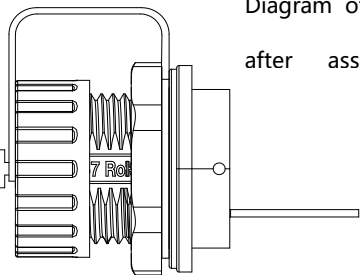
4.1.3.YGC583-RJ45RD/YGC583-RJ45RF 插座外形尺寸

YGC583-RJ45RD/YGC583-RJ45RF receptacle outline dimension



插座装配防护盖组件后外形图示

Diagram of the appearance of the receptacle after assembling the protective cover

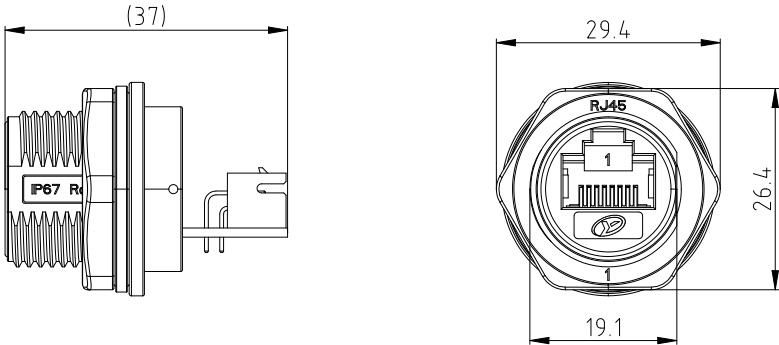


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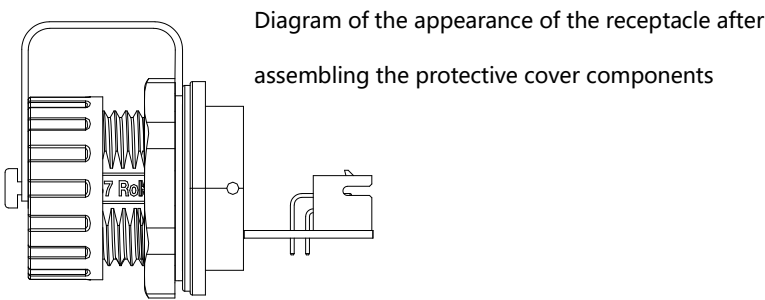
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4.1.4.YGC583-RJ45RG/YGC583-RJ45RH 插座外形尺寸

YGC583-RJ45RG/YGC583-RJ45RH r eceptacle outline dimension



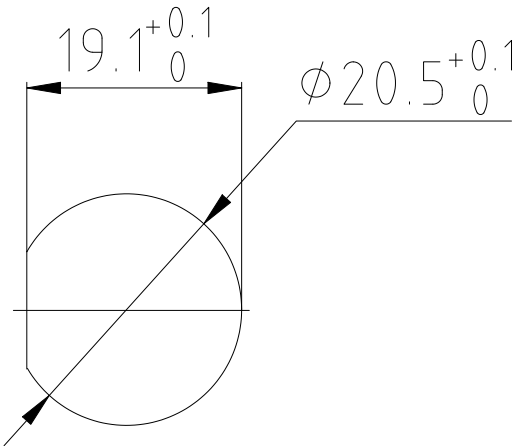
插座装配防水盖组件后外形图示



4.2.推荐安装开孔尺寸 Recommended mounting hole dimension

推荐安装面板厚度≥1.5mm

Recommended mounting panel thickness≥1.5mm



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5.说明及包装存储Description and packaging storage

5.1. 连接器应在提供的技术参数范围内使用。

Connectors should be used within the specification that provided.

5.2. 包装规范 Package spec

纸箱包装，防潮处理。

Carton packaging, moisture-proof treatment.

5.3. 存储要求 Storage spec

包装成箱的产品应在环境温度-10℃ ~ +40℃，相对湿度 80%以下，周围空气中无酸性，碱性或其它腐蚀性气体的库房里贮存，贮存期自生产日期不超过一年。

The packaged products shall be stored in the warehouse within the temperature of -10 °C ~ + 40 °C, relative humidity less than 80%, and no acid, alkaline or other corrosive gases in the surrounding air. The storage period shall not exceed one year from the production date.

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