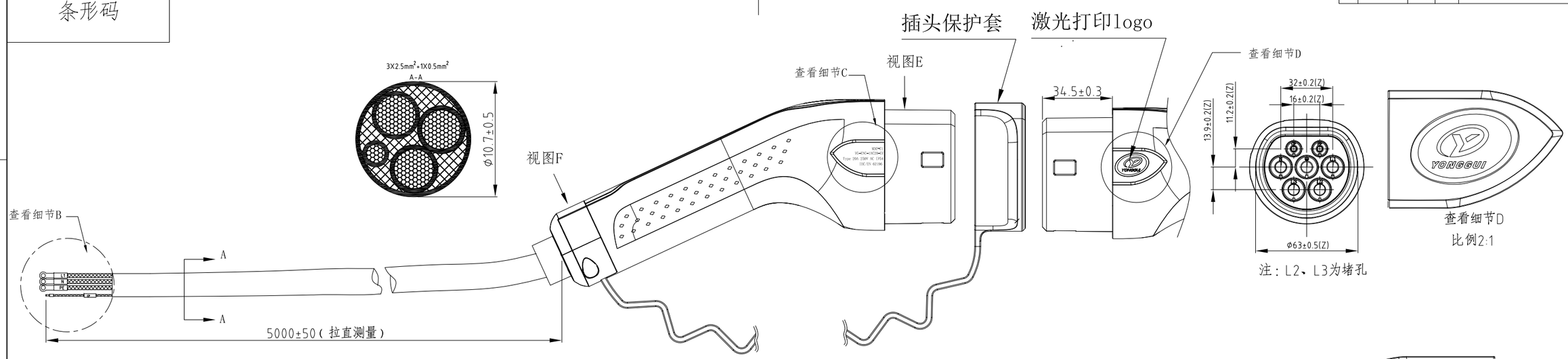
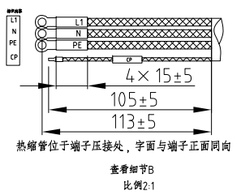
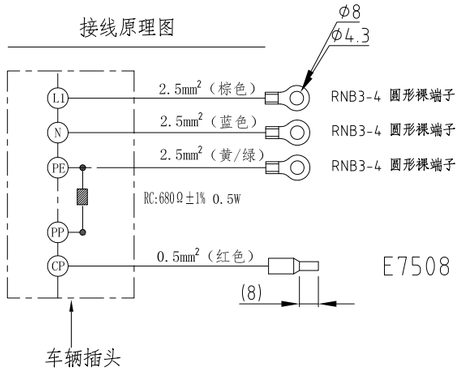
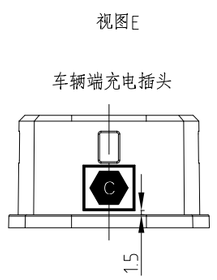
标记	更改单号	版本	区域	说　明

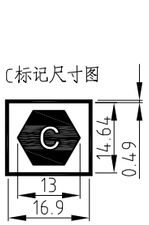
条形码





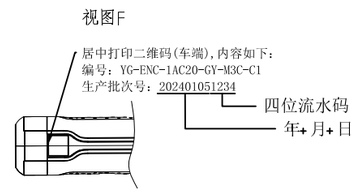






①字体Arial，加粗，最小字节为14point(4.93mm)，且在六边形中间，字体大小随六边形大小变化

②：六边形宽度最小为13mm，外边框厚度为1.4point(0.49mm)。



性能指标：
Performance index:

1、额定电压 ：250V AC;
Rated voltage: 250V AC;

2、额定电流 ：20A ；
Rated current: 20A ；

3、防护等级 ：IP54;
Ingress protection: IP54;

4、阻燃等级 ：UL94 V-0
Flame retardant grade: UL94 V-0

5、机械寿命 ：≥10000次;
Mechanical life: ≥10000 times;

6、使用环境温度 ： -30° 至+50° ；
Operating ambient temperature: -30℃～+50℃;

7、耐电压 ：L1、N、PE之间≥ 2000AC,1min;
Voltage withstand: ≥2000V AC 1min,
between each pairs of L1, N, PE;

8、绝缘电阻 ：≥500MΩ。
Insulation resistance: ≥500MΩ.

技术要求：
Technical requirements:

1、符合IEC62196-2:2022中的2-IIe要求;
Meet the requirements of 2-IIe in IEC62196-2:2022;

2、本插头为模式3、连接方式C连接器;
This product is a connector of mode 3C;

3、线缆规格：3*2.5mm²+1*0.5mm²;
Cable specification:3*2.5mm²+1*0.5mm²;

4、电阻规格:
Resistance specification:
RC=680Ω±1% 0.5W

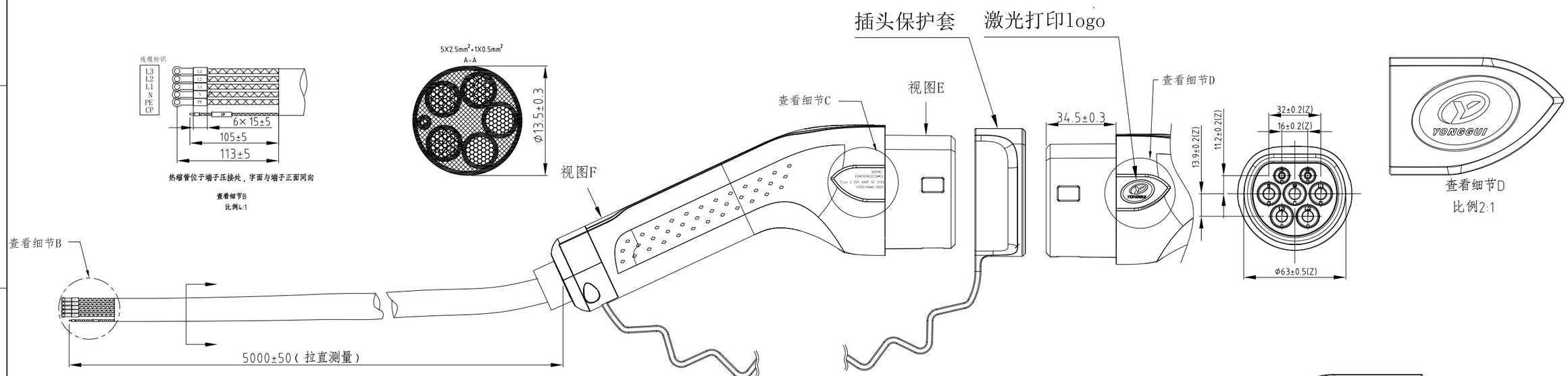
重要度分级	A	涂覆 FINISH	/	YONGGUI	
设　计 DESIGN		材　料 MATERIAL	/ / /	产品编码 PART NO	1110004058l8
审　核 CHECKED		名　称 DESCRIPTION	YG-ENC-1AC20-GY-M3C-C1插头线缆组件	编　号 PART NO.	
工　艺 ENGINEER		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE YONGGUI . NO RIGHTS OF REPRODUCTION ARE IMPLIED.		投影关系 FIRST ANGLE PROJECTION	重量 MASS / g; 幅面 SIZE A3; 比例 SCALE 1:2; 版本 EDITION S 0.0
会　签 COUNTER-SIGN					
标准化 STANDARDIZ-ATION				表面积 SURFACE AREA	/ mm²
批　准 APPROVAL				第 PAGE	1 张
客　户 CUSTOMER				共 PAGES	1 张

标记	更改单号	版本	区域	说　明

条形码

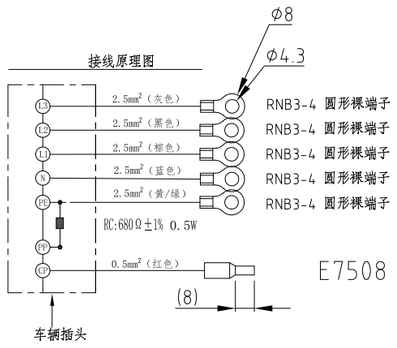
热缩管位于端子压接处，字面与端子正面同向

查看细节B
比例4:1



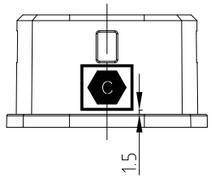
查看细节D
比例2:1

线缆下线、剥线长度

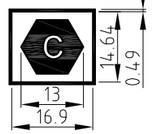


E7508

视图E

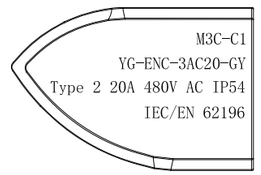


C标记尺寸图



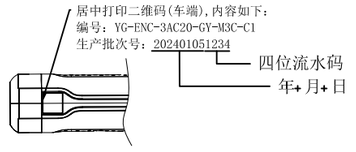
①字体Arial，加粗，最小字节为14point(4.93mm)，且在六边形中间，字体大小随六边形大小变化

②：六边形宽度最小为13mm，外边框厚度为1.4point(0.49mm)。



查看细节C
比例2:1

视图F



性能指标：

Performance index:

1、额定电压 ：480V AC;
Rated voltage: 480V AC;

2、额定电流 ：20A ;
Rated current: 20A ;

3、防护等级 ：IP54;
Ingress protection: IP54;

4、阻燃等级 ：UL94 V-0
Flame retardant grade: UL94 V-0

5、机械寿命 ：≥10000次;
Mechanical life: ≥10000 times;

6、使用环境温度 ： -30° 至+50° ;
Operating ambient temperature: -30℃～+50℃;

7、耐电压 ：L1、L2、L3、N、PE之间≥ 2000AC,1min;
Voltage withstand: ≥2000V AC 1min,
between each pairs of L1, L2, L3, N, PE;

8、绝缘电阻 ：≥500MΩ。
Insulation resistance: ≥500MΩ.

技术要求：

Technical requirements:

1、符合IEC62196-2:2022中的2-IIe要求;
Meet the requirements of 2-IIe in IEC62196-2:2022;

2、本插头为模式3、连接方式C连接器;
This product is a connector of mode 3C;

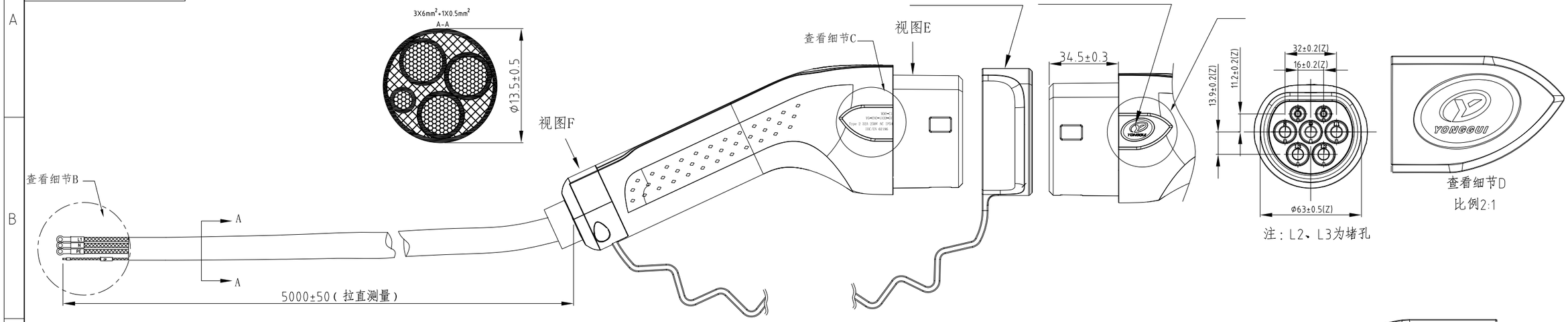
3、线缆规格：5*2.5mm²+1*0.5mm²;
Cable specification:5*2.5mm²+1*0.5mm²;

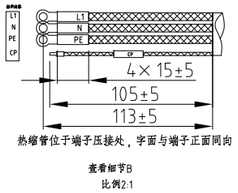
4、电阻规格：
Resistance specification:
RC=680Ω±1% 0.5W

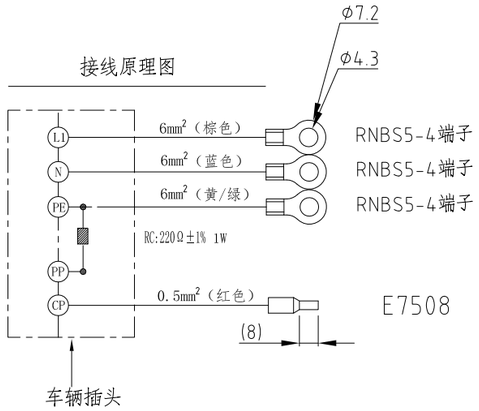
重要度分级	A	涂覆 FINISH	/	YONGGUI
设　计 DESIGN		材　料 MATERIAL	/ / /	
审　核 CHECKED		名　称 DESCRIPTION	YG-ENC-3AC20-GY-M3C-C1插头线缆组件	产品编码 PART NO. 1110004405819
工　艺 ENGINEER				编　号 PART NO.
会　签 COUNTER-SIGN		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE YONGGUI . NO RIGHTS OF REPRODUCTION ARE IMPLIED.		投影关系 FIRST ANGLE PROJECTION / 重量 MASS / 幅面 SIZE A3 / 比例 SCALE 1:2 / 版本 EDITION S 0.0
标准化 STANDARDIZ-ATION				表面积 SURFACE AREA / mm² / 第1张 PAGE / 共1张 PAGES
批　准 APPROVAL				
客　户 CUSTOMER				

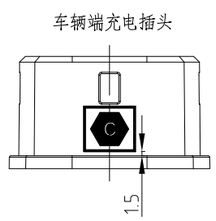
标记	更改单号	版本	区域	说　明

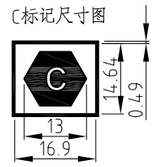
条形码



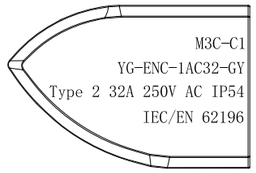


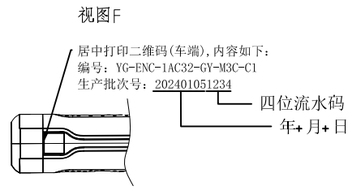






①字体Arial，加粗，最小字节为14point(4.93mm)，且在六边形中间，字体大小随六边形大小变化
②：六边形宽度最小为13mm，外边框厚度为1.4point(0.49mm)。





性能指标：
Performance index:

1、额定电压 ：250V AC;
Rated voltage: 250V AC;

2、额定电流 ：32A ；
Rated current: 32A ;

3、防护等级 ：IP54;
Ingress protection: IP54;

4、阻燃等级 ：UL94 V-0
Flame retardant grade: UL94 V-0

5、机械寿命 ：≥10000次;
Mechanical life: ≥10000 times;

6、使用环境温度 ： -30° 至+50° ;
Operating ambient temperature: -30℃～+50℃;

7、耐电压 ：L1、N、PE之间≥ 2000AC,1min;
Voltage withstand: ≥2000V AC 1min,
between each pairs of L1,N, PE;

8、绝缘电阻 ：≥500MΩ。
Insulation resistance: ≥500MΩ.

技术要求：
Technical requirements:

1、符合IEC62196-2:2022中的2-IIe要求;
Meet the requirements of 2-IIe in IEC62196-2:2022;

2、本插头为模式3、连接方式C连接器;
This product is a connector of mode 3C;

3、线缆规格：3*6mm²+1*0.5mm²;
Cable specification:3*6mm²+1*0.5mm²;

4、电阻规格:
Resistance specification:
RC=220Ω±1% 1W

重要度分级	A	涂　覆 FINISH	/
设　计 DESIGN		材　料 MATERIAL	/ / /
审　核 CHECKED		名　称 DESCRIPTION	YG-ENC-1AC32-GY-M3C-C1插头线缆组件
工　艺 ENGINEER			
会　签 COUNTER-SIGN			
标准化 STANDARDIZ-ATION			
批　准 APPROVAL			
客　户 CUSTOMER			

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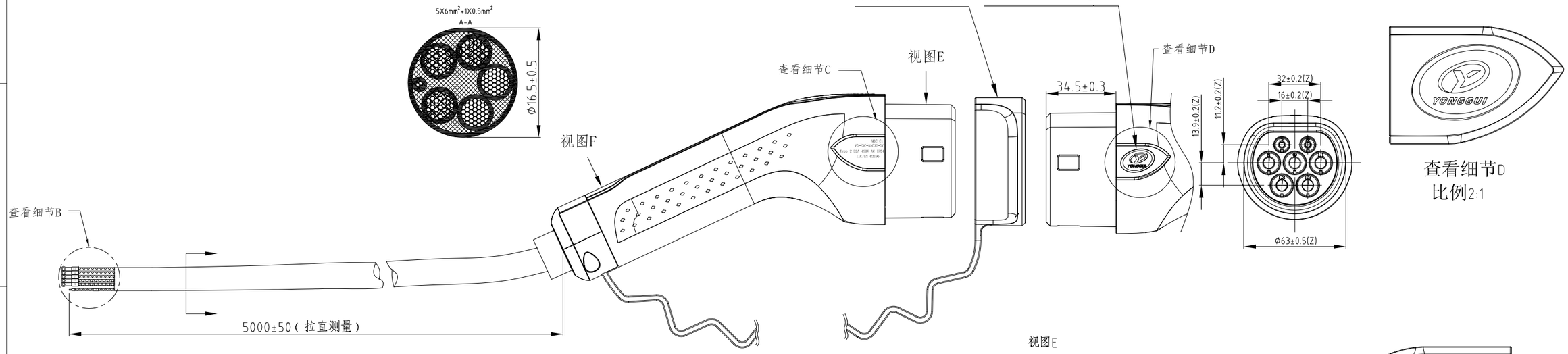
YONGGUI

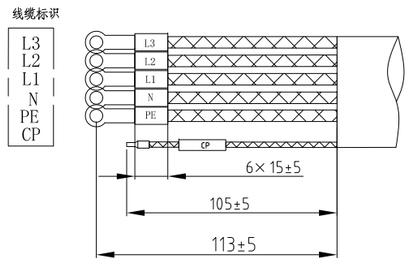
产品编码 PART NO	111000405821			
编　号 PART NO				
投影关系 FIRST ANGLE PROJECTION	重　量 MASS	幅　面 SIZE	比　例 SCALE	版　本 EDITION
	/ g	A3	1:2	S 0.0
表面积 SURFACE AREA	/ mm²	第 1 张 PAGE	共 1 张 PAGES	

标记	更改单号	版本	区域	说　明

条形码



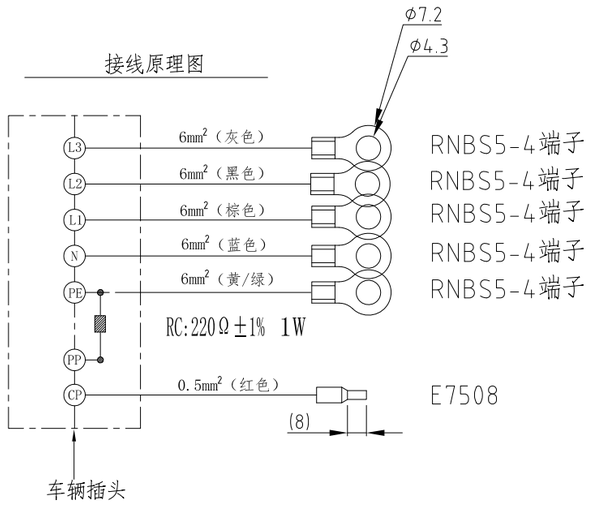
查看细节D
比例2:1

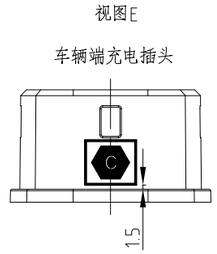


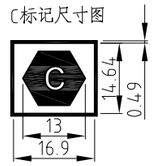
热缩管位于端子压接处，字面与端子正面同向

查看细节

2:1

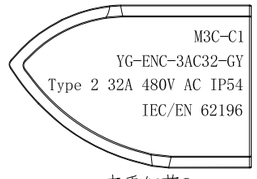






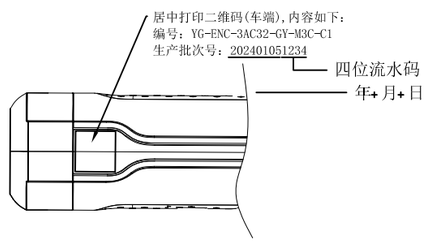
①字体Arial，加粗，最小字节为14point(4.93mm)，且在六边形中间，字体大小随六边形大小变化

②：六边形宽度最小为13mm，外边框厚度为1.4point(0.49mm)。



查看细节C
比例2:1

视图F



性能指标：

Performance index:

1、额定电压 ：480V AC;
Rated voltage: 480V AC;

2、额定电流 ：32A ;
Rated current: 32A ;

3、防护等级 ：IP54;
Ingress protection: IP54;

4、阻燃等级 ：UL94 V-0
Flame retardant grade: UL94 V-0

5、机械寿命 ：≥10000次;
Mechanical life: ≥10000 times;

6、使用环境温度 ： -30° 至+50° ;
Operating ambient temperature: -30℃～+50℃;

7、耐电压 ：L1、L2、L3、N、PE之间≥ 2000AC,1min;
Voltage withstand: ≥2000V AC 1min,
between each pairs of L1, L2, L3, N, PE;

8、绝缘电阻 ：≥500MΩ。
Insulation resistance: ≥500MΩ.

技术要求：

Technical requirements:

1、符合IEC62196-2:2022中的2-IIe要求;
Meet the requirements of 2-IIe in IEC62196-2:2022;

2、本插头为模式3、连接方式C连接器;
This product is a connector of mode 3C;

3、线缆规格：5*6mm²+1*0.5mm²;
Cable specification:5*6mm²+1*0.5mm²;

4、电阻规格：
Resistance specification:
RC=220Ω±1% 1W

重要度分级	A	涂覆 FINISH	/	YONGGUI	
设　计 DESIGN		材　料 MATERIAL	/ / /	产品编码 PART NO.	111000405822
审　核 CHECKED		名　称 DESCRIPTION	YG-ENC-3AC32-GY-M3C-C1插头线缆组件	编　号 PART NO.	
工　艺 ENGINEER		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE YONGGUI . NO RIGHTS OF REPRODUCTION ARE IMPLIED.		投影关系 FIRST ANGLE PROJECTION	重量 MASS / g; 幅面 SIZE A3; 比例 SCALE 1:2; 版本 EDITION S 0.0
会　签 COUNTER-SIGN				表面积 SURFACE AREA	/ mm²
标准化 STANDARDIZ-ATION				第 PAGE	1 张
批　准 APPROVAL				共 PAGES	1 张
客　户 CUSTOMER					

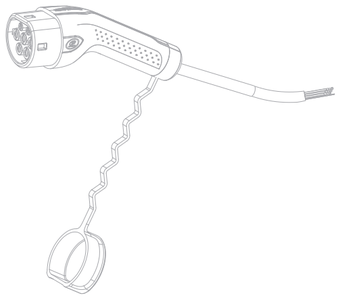
模式3|连接方式C

YG-ENC

欧标交流充电线束

产品使用手册

Product Manual



四川永贵科技有限公司

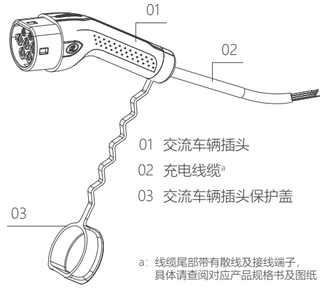
SICHUAN YONGGUI SCIENCE AND TECHNOLOGY CO.,LTD

1 产品结构

本产品为带有IEC标准交流车辆插头以及自由出线端的交流充电线缆。

应用于电动汽车交流充电系统，满足IEC62196.1-2022和IEC62196.2-2022，仅适用于与该标准下对应的车辆插座配合使用。

注：欧标交流车辆插头尺寸见IEC62196.2 STANDARD SHEET 2-IIe。

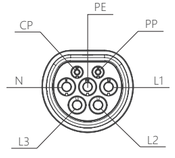


01 交流车辆插头

02 充电线缆[a]

03 交流车辆插头保护盖

a：线缆尾部带有散线及接线端子，具体请查阅对应产品规格书及图纸



接口定义

PP： 连接确认

CP： 控制导引

PE： 保护接地

N ： 交流电源，中线

L1： 交流电源，火线1

L2： 交流电源，火线2

L3： 交流电源，火线3

注：图示为三相交流产品的定义图，当产品为单相时，L2/L3为封闭堵孔。

2 安装事项

本产品安装于交流充电设备，采用模式3、连接方式C，为电动汽车充电。

模式3，连接方式C

⚠ 警告

仅允许由专业的电气工程师安装本充电线缆，错误接线将有可能导致电击风险和充电故障。

YG-ENC 接线表

线芯代号	颜　色	13A	20A	32A
L1	棕	2.5mm²	2.5mm²	6mm²
L2	黑	2.5mm²	2.5mm²	6mm²
L3	灰	2.5mm²	2.5mm²	6mm²
N	蓝	2.5mm²	2.5mm²	6mm²
PE	黄/绿	2.5mm²	2.5mm²	6mm²
CP	红	0.5mm²	0.5mm²	0.5mm²

请严格按照本接线表进行线缆接线和安装。

3 正确放置

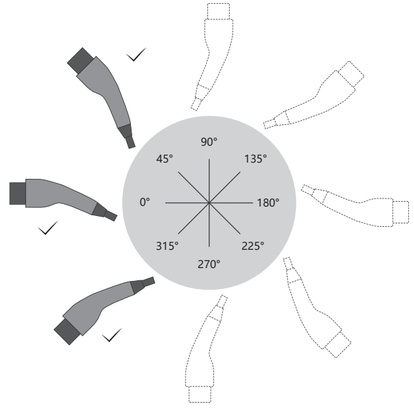
01、在不使用车辆插头时，请确保盖上枪头保护盖；

02、如不设计使用枪头保护盖，也可以在交流充电设备上的合适位置[a]，设置车辆插头放置空座[b]。

注：

a. 合适位置参考图示45°-0°-315°的范围，避免用户将充电插头倒挂放置。

b. 空座的设计，应根据IEC62196.2 STANDARD SHEET 2-IIf中的相关尺寸和要求进行设计。



4 使用事项

● 正常使用

01、充电前，关闭车内电源系统，档位切换到P档，并施加驻车制动；

02、打开车辆交流充电插座的防护盖；

03、取下车辆插头保护盖，或者将车辆插头从充电设备的空座中拔出；

04、将车辆插头垂直地插入车辆交流充电插座至完全插合，然后松开；

05、根据充电站的充电设备操作指示开始充电；

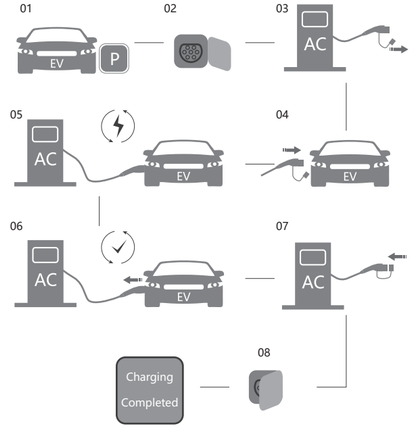
06、完成充电后，请等待充电设备断开充电过程，垂直地拔出充电枪；

07、将充电插头插回充电设备空座，或者盖上保护盖放置到设备既定位置。

08、根据车辆操作指示，盖好插座保护盖，完成充电。

⚠ 警告

请勿将充电插头倾斜拔出，或摇晃拔出，否则可能损坏充电插头和车辆充电插座。



● 安全事项

01、不要私自改装或拆卸充电枪，否则可能导致充电故障，严重时引起火灾；

02、雷雨天气时，建议停止给车辆充电，雷电可能导致充电设备损坏；

03、车辆充电时，严禁触摸充电口；

04、充电枪使用时，避免线缆过度纽绞，避免过度折弯充电线缆；

05、电线摆放路面应平整，避免尖锐碎石划伤线缆护套；

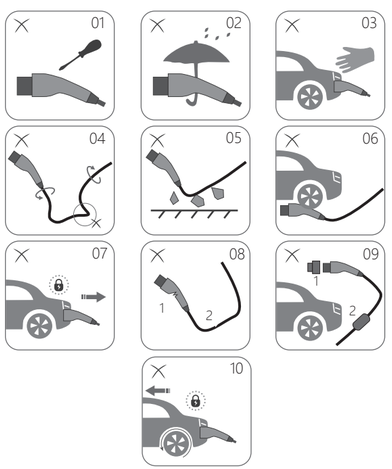
06、禁止车辆碾压车辆插头或充电线缆；

07、充电过程中，禁止尝试大力拔出车辆插头；

08、车辆插头本体或者线缆出现破损时，禁止充电；

09、使用本产品时，禁止转接头或延长线的使用；

10、严禁在未拔出车辆插头的情况下起动车辆。



5 清　　洁

01、禁止在充电过程中，或充电线缆连接到车辆插座的情况下进行清洁；

02、请使用干燥的清洁布进行清洁；

03、禁止使用蒸汽式清洁器、腐蚀性溶剂；

04、请勿将充电插头浸入任何液体中清洁。

6 存　　储

01、未安装到充电设备上的充电线缆，请放置于干燥整洁的场所，保持保护盖对枪头的防护。

7 维　　修

01、如充电线缆（车辆插头和AC线缆）出现故障，请勿私自拆卸返修，请联系我司进行售后处理。

技术数据表

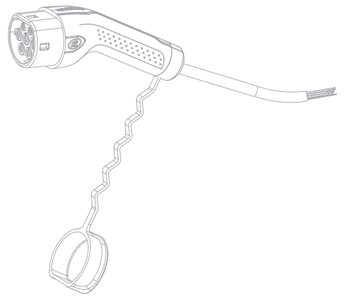
YG-ENC -1AC	13...	20...	32...	/	/	/
YG-ENC -3AC	/	/	/	13...	20...	32...
电源相数	单相	单相	单相	三相	三相	三相
电源触点数量	3（L1/N/PE）	3（L1/N/PE）	3（L1/N/PE）	5（L1/L2/L3/N/PE）	5（L1/L2/L3/N/PE）	5（L1/L2/L3/N/PE）
额定电流	13A	20A	32A	13A	20A	32A
额定电压	250V AC	250V AC	250V AC	480V AC	480V AC	480V AC
执行标准	IEC 62196.1-2022　IEC62196.2-2022					
充电模式	充电模式3，连接方式C					
电阻阻值	1500 Ω	680 Ω	220 Ω	1500 Ω	680 Ω	220 Ω
电缆结构	3×2.5mm²+1×0.5mm²	3×2.5mm²+1×0.5mm²	3×6mm²+1×0.5mm²	5×2.5mm²+1×0.5mm²	5×2.5mm²+1×0.5mm²	5×6mm²+1×0.5mm²
电缆外径（OD）	Φ10.7±0.5mm	Φ10.7±0.5mm	Φ13.5±0.5mm	Φ13.5±0.3mm	Φ13.5±0.5mm	Φ16.5±0.5mm
电缆长度	按需求定制					
使用环境温度	-30℃~+50℃					
插拔寿命	≥10000					
插拔力	≤100 N					
防护等级	插合前：IP54；插合后：IP55 电气部分：IP67（与插座对插连接界面除外）					
阻燃等级	UL94 V-0					

Mode 3 | Case C Connection

YG-ENC
AC Charge Cable
------European Standard

Product Manual

产品使用手册

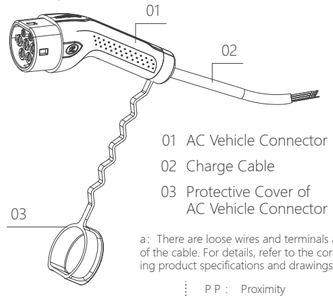


四川永贵科技有限公司
SICHUAN YONGGUI SCIENCE AND TECHNOLOGY CO.,LTD

1 Product Construction

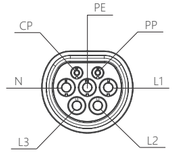
This product is AC charging cable with IEC standard vehicle connector and free outlet end.
It is to be used for charging electric vehicles,connecting to AC charging equipment.This product meets the requirements of IEC62196.1-2022 and IEC62196.2-2022, and is only suitable for use with the corresponding vehicle inlet under this standard.

Note: The dimensions of AC vehicle connector(European Standard) are shown in IEC62196.2 STANDARD SHEET 2-IIe.



01 AC Vehicle Connector
02 Charge Cable
03 Protective Cover of AC Vehicle Connector

a: There are loose wires and terminals at the end of the cable. For details, refer to the correspond-ing product specifications and drawings.



Interface Definition

PP: Proximity
CP: Control Pilot
PE: Protective Earthing
N: The AC power, Neutral
L1: The AC power, Mains 1
L2: The AC power, Mains 2
L3: The AC power, Mains 3

Note: The figure shows the definition of three-phase AC product.
When the product is single-phase, the holes of L2/L3 is closed.

2 Installation

This product is installed in AC charging equipment, charging for electric vehicle, within mode 3 and case C connection.

Mode 3, Case C Connection

⚠ Warning

Only professional electrical engineers are allowed to install this charging cable. Incorrect connection may lead to electric shock and charging failure.

YG-ENC Wiring Table

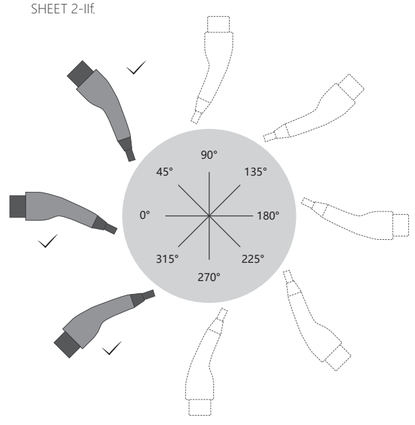
Wire code	Color	13A	20A	32A
L1	Brown	2.5mm²	2.5mm²	6mm²
L2	Black	2.5mm²	2.5mm²	6mm²
L3	Gray	2.5mm²	2.5mm²	6mm²
N	Blue	2.5mm²	2.5mm²	6mm²
PE	Yellow/Green	2.5mm²	2.5mm²	6mm²
CP	Red	0.5mm²	0.5mm²	0.5mm²

Please connect and install cables strictly according to this wiring table.

3 Correct placement

01. Be sure to cover the vehicle connector which is not in using;
02. If the protection cover is not proposed, you can also set the empty seat[b] at the appropriate position[a] of the AC charging equipment to place the vehicle connector.

Note:
a. Refer to the range of 45°-0°-315° as shown in the figure for appropriate position, such that users cannot hang up the vehicle connector upside down.
b. The design of empty seats shall be based on the relevant dimensions and requirements of IEC62196.2 STANDARD SHEET 2-IIf.



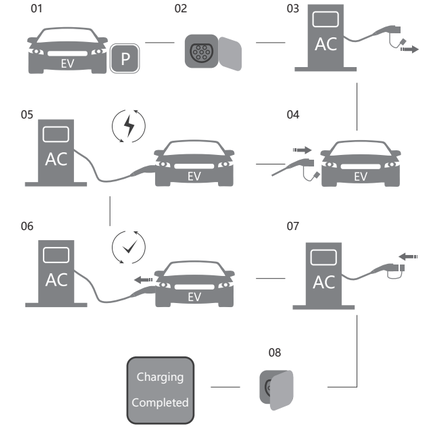
4 Items for Use

● Normal use

01. Before charging, turn off the power system of the car, switch to P gear, and turn on the parking braking system;
02. Open the protective cover of d AC vehicle inlet;
03. Remove the protective cover of the vehicle connec-tor, or pull out the vehicle connector from the empty seat of the charging equipment;
04. Insert the vehicle connector vertically into the AC vehicle inlet until fully inserted, then release;
05. Start charging according to the operation instructions of the charging equipment;
06. After the charging process is completed, please wait until the charging process disconnected, then pull the vehicle connector out vertically;
07. Insert the charging connector back into the empty seat of the charging device, or cover with the protective cover and place it in the fixed position of the device;
08. According to the vehicle operation instructions, cover the protective cover of the vehicle inlet, then the charging completed.

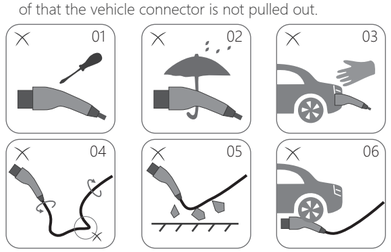
⚠ Warning

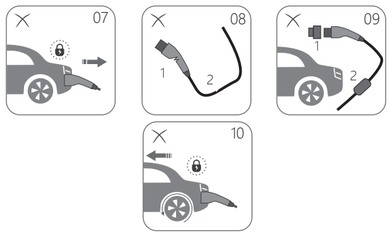
Please do not pull the vehicle connector tilting or swinging,
Otherwise, the vehicle connector and vehicle inlet may be damaged.



● Items for Safety

01. Please do not modify or disassemble the vehicle connector, otherwise it may lead to charging failure, in severe cases, it may cause a fire;
02. During a thunderstorm, it is suggested to stop charging. Lightning may damage the charging device;
03. It is forbidden to touch the charging coupler during the charging process;
04. When using the vehicle connector, please avoid that over-twisting or over-bending the cable;
05. where the cable be placed should without gravels, aviooding that the cable is scratched by sharp gravels;
06. It is forbidden that the vehicle crushed the vehicle connector or cable;
07. It is forbidden to intend to pull out the vehicle connector violently during the charging process;
08. It is forbidden to charge when the body of the vehicle connector or cable damaged;
09. Please do not use the adapter or extension cord when using this product.
10. It is forbidden to start and remove the vehicle in case of that the vehicle connector is not pulled out.





5 Cleaning

01. Please do not clean during charging process or when the cable is connected to vehicle inlet;
02. Please use dry cloth to clean;
03. Please do not use steam cleaners, corrosive liquid;
04. Please do not clean the vehicle connector by immers-ing it in any liquid.

6 Storage

01. The charging cables that are not installed on the charging equipment should be placed in a dry and clean place, and the protective cover should be kept on the vehicle connector.

7 Repair

01、If the charging cable (vehicle connector and AC cable) broken down, please do not disassemble it for repair without permission. Please contact us for after-sales maintenance.

Technical Data Table

YG-ENC -1AC	13...	20...	32...	/	/	/
YG-ENC -3AC	/	/	/	13...	20...	32...
Type of power	Single-phase	Single-phase	Single-phase	Three-phase	Three-phase	Three-phase
Number of power contacts	3 (L1/N/PE)	3 (L1/N/PE)	3 (L1/N/PE)	5 (L1/L2/L3/N/PE)	5 (L1/L2/L3/N/PE)	5 (L1/L2/L3/N/PE)
Rated current	13A	20A	32A	13A	20A	32A
Rated voltage	250V AC	250V AC	250V AC	480V AC	480V AC	480V AC
Standard	IEC 62196.1-2022 IEC62196.2-2022					
Charging mode	Mode 3, Case C Connection					
Resistance value	1500 Ω	680 Ω	220 Ω	1500 Ω	680 Ω	220 Ω
Cable structure	3×2.5mm² +2×0.75mm²	3×2.5mm² +2×0.75mm²	3×6mm² +2×0.75mm²	5×2.5mm² +2×0.75mm²	5×2.5mm² +2×0.75mm²	5×6mm² +2×0.75mm²
External cable diameter (OD)	Φ10.7±0.5mm	Φ10.7±0.5mm	Φ13.5±0.5mm	Φ13.5±0.3mm	Φ13.5±0.3mm	Φ16.5±0.5mm
Length of cable	Can be customized as required					
Ambient temperature	-30℃~+50℃					
Cycles life	≥10000					
Insertion/withdrawal force	≤100 N					
Degree of protection	Before insertion: IP54; After insertion: IP55 Electrical part: IP67 (Except the interface with socket)					
Flame retardant rating	UL94 V-0					