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Product Data Sheet
产 品 规 格 书

Product Type
产品类型
IP65 Waterproof Power Plug
IP65 防水插头

Product Model
产品型号
SAC3FX

Customer Name
客户名称

Manufacturer 生产方	**Prepared** 制作	**Checked** 审核	**Approved** 核准
	2025.09.01.	25.9.0	25.09.10

Customer 客户方	**Received** 接受	**Checked** 审核	**Confirmed** 确认

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Product Type 产品类型	**IP65 Waterproof Power Plug** **IP65 防水插头**	
Product Model 产品型号	**SAC3FX**	

Product Features
产品特性

- Lockable three-core female power cable connector with contacts for line, neutral and pre-adapted safety grounding
- Used for electrical connection under outdoor conditions with protection grade IP65
- Match with SAC3MX plug or SAC3MPX/SAC3MPX-LY socket
- Fast and easy locking system with firm latch lock which does not fall off
- Rugged and reliable anti-twist locking structure
- High current capacity rated at 16A/250V AC IEC and 20A/300V AC UL

- 可锁定的三芯母头电源线缆连接器，触点分别为火线、零线及接地线
- 用于户外条件下的电气连接，防护等级为 IP65
- 与 SAC3MX 插头或者 SAC3MPX/SAC3MPX-LY 插座配套使用
- 快速简便的锁定系统，具有牢固的闩锁，按键牢靠不脱落
- 坚固可靠的夹线螺母防松结构
- 高电流容量，16A/250V AC IEC 和 20A/300V AC UL

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Electrical Parameters
电气参数

Item 项目	Specification 规格
Number of Contact 触点数量	2 + PE
Rated Current 额定电流	16A IEC / 20A UL
Rated Voltage 额定电压	250V AC IEC / 300V AC UL
Contact Resistance 接触电阻	≤ 5 mΩ
Basic insulation/ Reinforced insulation 基本绝缘/加强绝缘	1500V AC / 3000V AC
Insulation Resistance 绝缘电阻	> 1000 MΩ

Mechanical Parameters
机械参数

Item 项目	Specification 规格
Service Life 使用寿命	> 1000 mating cycles > 1000 次使用周期
Cable Size 电线尺寸	2.5 mm^2 /12 AWG
Cable OD 电缆外径	7-11 mm
Type of Terminals 端子接线方式	Screw type terminals 螺丝锁线端子

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Material and Environmental Parameters
材料和环境

Item 项目	Specification 规格
Housing 外壳材质	PA 尼龙
Contacts 触点材质	Cu alloy 铜合金
Contact surface 触点表面	Ag 银
Protection degree 防护等级	IP65
Flame retardant rating 阻燃等级	UL94 V-0
Temperature range 使用温度范围	-30°C ~ +80°C

Standards and Certifications
标准和认证

Standards 标准	UL498 | UL50E | IEC61984 | IEC60320-1 GB/T 34989 | 电気用品安全法 (PSE)
Certifications 认证代码	UL: E356932 TUV RH : R 50660463 0001 PSE:JET7938-43004-1001

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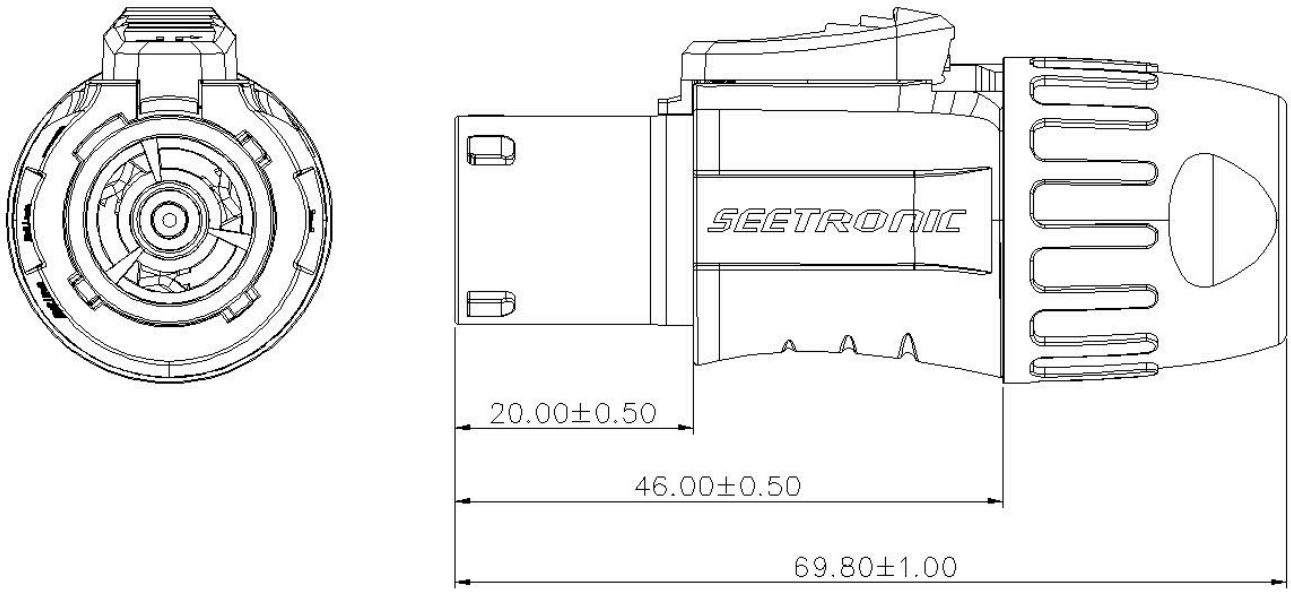
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Product Drawing
产品外形尺寸



Unit: mm

Packaging Method
包装方式

1 pc per bag (include 1 pc each of inner core, housing, strain relief, bushing, waterproof rubber ring)
40 pcs per inner carton, 5 inner cartons per master carton (200 pcs per master carton)

1 个/袋 (包含内芯、外壳、线夹、尾套、防水橡胶圈各 1 个)
40 个/盒，5 个内盒/箱 (即 200 个/箱)

Accessory
配件

☑ No accessories 无配件安装固定件	☐ Back fastener plate 安装面板
☐ Screws and Nuts 螺丝和螺帽	☐ Other 其他

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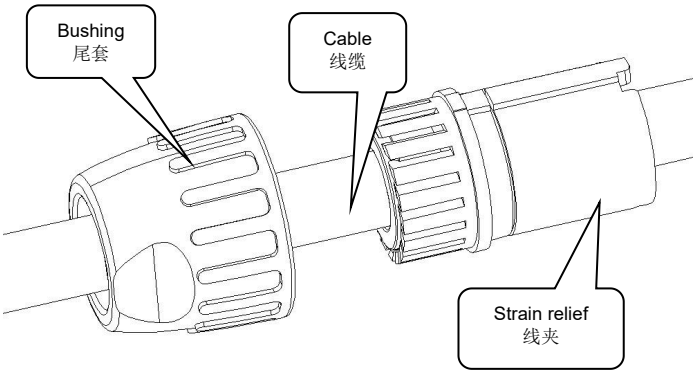
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Assembly Instructions
安装使用说明

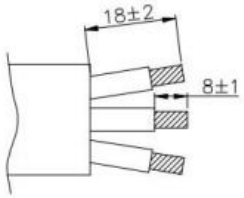
(1) Put the cable through the bushing and strain relief

将线缆穿过尾套和线夹



(2) Strip the cable in the size as shown

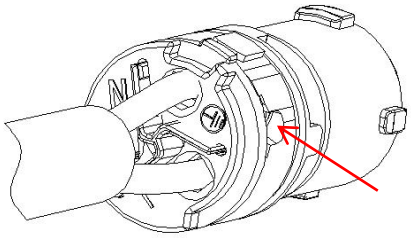
按所示尺寸剥线



(3) Insert the conductor of the cable into the terminal of the inner core (refer to the wiring method on the right) and then lock with a torque of 0.7 N·m(Use a T8 Phillips screwdriver)

将线缆导体部分插入内芯端子（参考右图接线方式），插入后需用 0.7 N·m 扭矩锁紧螺丝(使用 T8 梅花螺丝刀或批头)。

Wiring 线序	IEC	UL
L	Brown 棕色	Black 黑色
N	Blue 蓝色	White 白色
Ground 地线	Green/Yellow 绿色/黄色	Green 绿色



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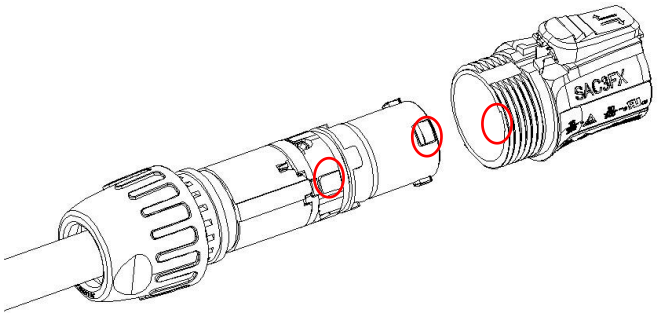
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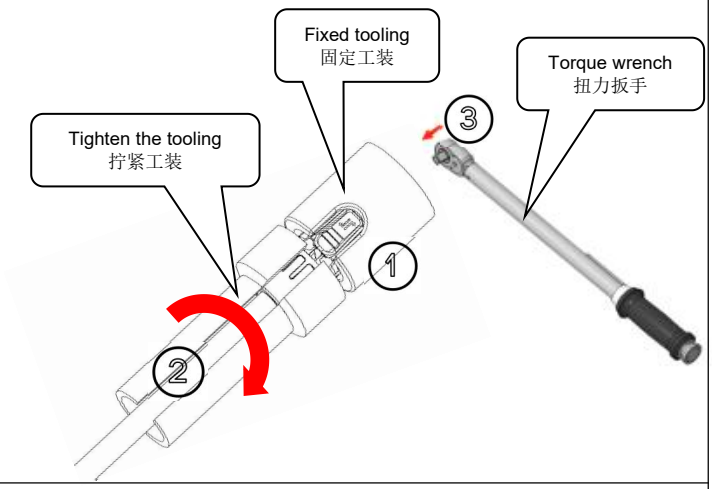
(4) Push the inner core component into the housing with the strain relief. The protruding rib of strain relief should correspond to the protruding rib of inner core component. And the two protruding ribs should correspond to the two grooves inside the housing.

将接完线后的内芯用线夹推入外壳内，线夹的凸筋需与内芯凸筋对应，两处凸筋与外壳凹槽处对应。



(5) After the cable clamp
1、Place the connector into the fixed fixture.
2、Place the tightening fixture in the tail sleeve of the connector, and then tighten the tail sleeve clockwise.
3、For precise installation positions, use a torque wrench to tighten with a torque of 5N·m.

线夹、内芯组件与外壳装配后：
1、将连接器放入固定工装中；
2、将拧紧工装放置在连接器的尾套中，然后顺时针方向拧紧尾套；
3、对于精确的安装位置，使用扭力扳手 5N·m 扭矩拧紧。



(6) Remove the tail sleeve:
1、Use a special tool to push up the locking device below the button(When not available, a flat screwdriver with a blade width ≤ 2.5 can be used as a substitute),Then felt the graphics lag,Explanation: The locking device moves upwards to the internal locking position and clicks into place.
2、At this time, take out the special tool and the tail sleeve can be twisted out counterclockwise

拆卸尾套：
1、用专用工具（没有时可用刀头宽度≤2.5 的一字螺丝刀代替）往上顶按键下方的锁止装置，接着感受到明显卡顿，说明锁止装置向上移动至内部过盈位并卡住位置（图 3）；
2、此时取出专用工具，尾套即可逆时针拧出。

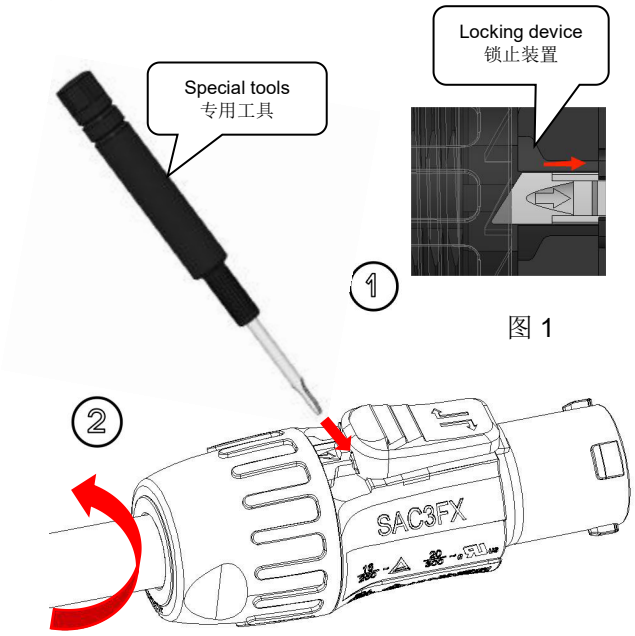


图 1

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Lock State
锁止状态

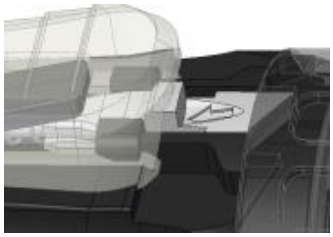


图 2

When unlocked, the locking device disengages from the tailgate
解锁状态下，锁止装置与尾套脱离

Unlock State
松止状态

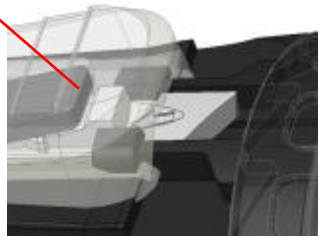
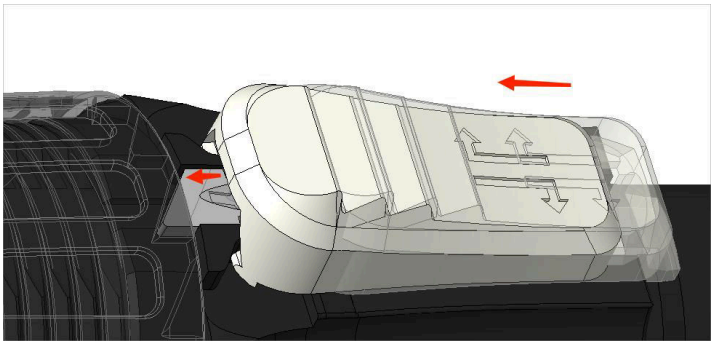


图 3

(7) Note: Pushing down the button will reset the locking device.

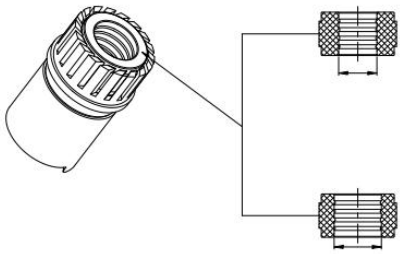
注意：按键往后推即可让锁止装置复位



(8) Note: This product is equipped with two sizes of waterproof rubber rings on the strain relief as standard. They are applicable to different cable diameters and can be replaced by the customers according to the diameter of the cable used, as shown in the picture.

注意：此产品的线夹上标配两种规格的防水橡胶圈，适用于不同线径的线缆，客户可根据适配线径自行更换，如图所示。

Φ8.5mm waterproof rubber ring (accessory)
suitable for cable OD 7-9mm
Φ8.5 防水橡胶圈（配件）
适用于线缆外径 7-9mm



Φ10.5mm waterproof rubber ring (assembled)
suitable for cable OD 9-11mm
Φ10.5 防水橡胶圈（已装配）
适用于线缆外径 9-11mm

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