

SEETRONIC

Product Data Sheet

产 品 规 格 书

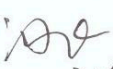
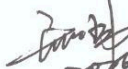
Product Type
产品类型

Power Plug
插头

Product Model
产品型号

SAC19F-SPC

Customer Name
客户名称

Manufacturer 生产方	Prepared 制作	Checked 审核	Approved 核准
	 2016.02.27	 2016.02.27	 2016.02.27

Customer 客户方	Received 接受	Checked 审核	Confirmed 确认

Above specifications and information may have tolerances and have been updated.
Every effort has been made to ensure correctness upon release of this data sheet.
以上规格和信息可能存在公差，并已更新。我们已尽一切努力确保本规格书发布时的正确性。

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Product Data Sheet

Product Type 产品类型	Power Plug 插头	
Product Model 产品型号	SAC19F-SPC	
Product Features 产品特性 ➤ Aluminum alloy housing with lightweight design and superior corrosion resistance ➤ Gold-plated contact surfaces to withstand frequent mating and unmating ➤ Flame retardancy rated UL94 V-0 ➤ Wide operating temperature range; stable long-term power transmission from -30°C to 85°C ➤ 铝合金壳体, 质量轻, 耐腐蚀性能好 ➤ 触点表面镀金, 耐频繁插拔 ➤ 阻燃等级达 UL94 V-0 ➤ 宽温域工作, -30°C~85°C长期稳定输电		



Product Data Sheet

Electrical Parameters

电气参数

Item 项目	Specification 规格
Number of pole 触点数量	12P + 7PE
Rated Current 额定电流	20A UL
Rated Voltage 额定电压	400V AC UL
Contact Resistance 接触电阻	$\leq 5\text{ m}\Omega$
Insulation Voltage (at sea level) 绝缘电压	1750V AC (Sea Level) 1750V AC (海平面)
Insulation Resistance 绝缘电阻	$> 1000\text{M}\Omega$
Attention 注意	No live mating/unmating 不可带电插拔

Mechanical Parameters

机械参数

Item 项目	Specification 规格
Wire range: 电线尺寸	12 AWG
Cable OD 电缆外径	$\Phi 14\text{-}30\text{ mm}$
Type of Terminals 端子接线方式	Solder 焊接



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Material and Environmental Parameters 材料和环境

Item 项目	Specification 规格
Housing 外壳材质	Al alloy 铝合金
Contacts 触点材质	Cu alloy 铜合金
Contact surface 触点表面	Au 金
Flame retardant rating 阻燃等级	UL94-V0
Temperature range 使用温度范围	-30° C ~ +85° C

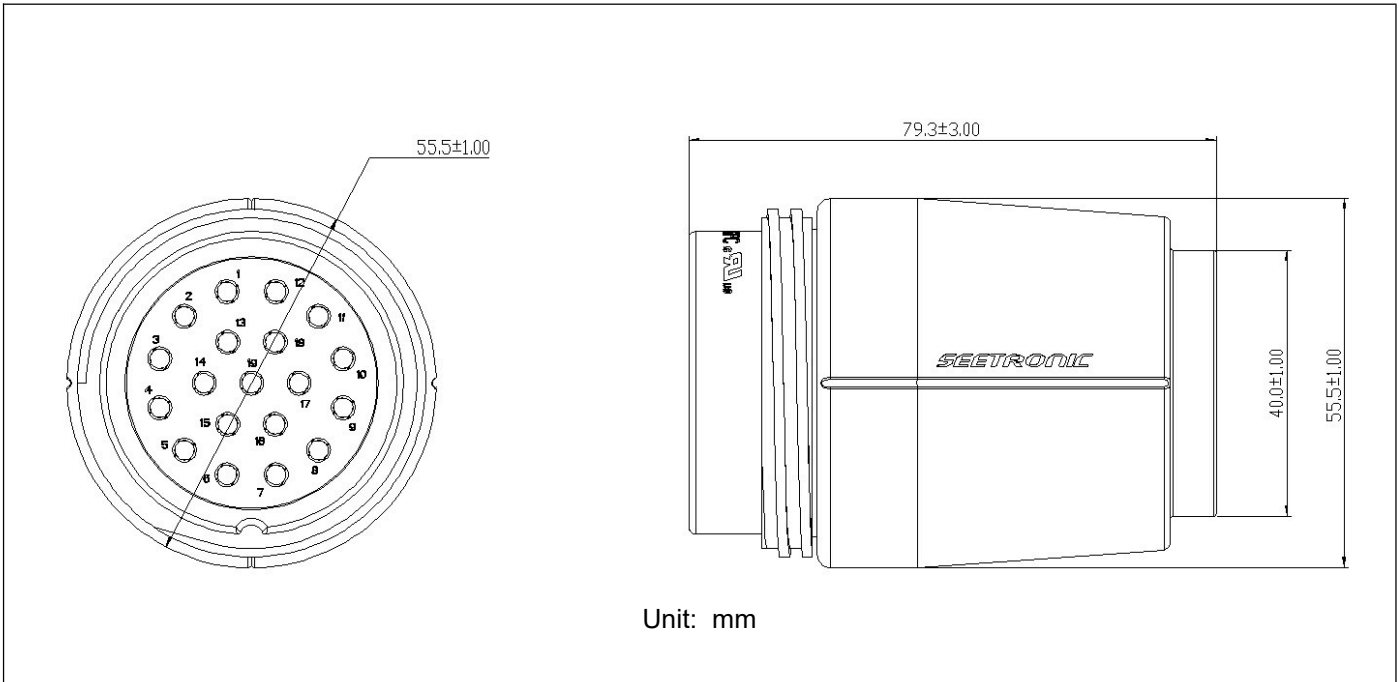
Standards and Certifications 标准和认证

Standards 标准	UL1977
Certifications 认证	UL: E359036



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Product Drawing 产品外形尺寸



Packaging Method 包装方法

- 1.Inner Bag 1: 1 piece 19-pin female connector assembly
 - 2.Inner Bag 2: 1 piece upper 19-pin housing + 1 piece lower 19-pin housing + 1 set plastic cable clamps (2 pcs each for $\Phi 14-18$, $\Phi 19-24$, $\Phi 25-30$ plastic cable clamps)
 - 3.Inner Bag 3: 1 piece 19-pin metal cable clamp + 4 pcs M4×15 cross recessed screws
 - 4.Put all the above inner bags into one large heat-seal bag and heat-seal the opening.
 - 5.Packaging Quantity: 10 heat-seal bags per inner carton; 5 inner cartons per outer carton
1. 内袋 1: 19 芯母头组件 1PC;
 2. 内袋 2: 19 芯外壳上件 1PC+19 芯外壳下 1PC+19 芯塑料线夹 1 模 ($\Phi 14-18$ 塑料线夹、 $\Phi 19-24$ 塑料线夹、 $\Phi 25-30$ 塑料线夹各 2PCS);
 3. 内袋 3: 19 芯金属线夹 1PC+M4X15 十字螺丝 4PCS;
 4. 以上内袋置于同一大热封袋, 热封封口;
 5. 包装数量: 10 热封袋/内盒, 5 内盒/一箱。



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Accessory

附件

- | | |
|---|--|
| ☐ No accessories
无配件 | ☐ Back fastener plate
安装固定件 |
| ☐ Screws and Nuts
螺丝和螺帽 | ☒ Other (Grounding lug、Ground screw、Washer)
接地连接片，接地螺钉，垫片 |

Assembly Instructions

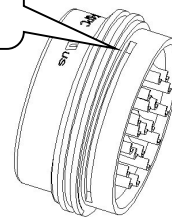
安装使用说明

(1) Install the grounding lug into the female connector assembly (aligned with pins No.13–19). Solder the grounding lug to pins No.13–19 of the male connector assembly.

(1) 将接地片装入母头组件内（对应 13-19 号插针），接地片装与公头组件 13-19 号插针焊接。

Female connector
母头组件

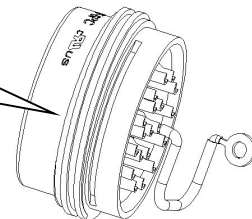
Grounding lug
接地片



(2) Slide heat shrink tubing over the ground wire conductor first, then solder the conductor to the insert assembly. After soldering, shift the heat shrink tubing to cover the solder joint and perform heat shrinking.

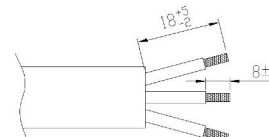
(2) 先将热缩管套入接地线导体上，再与内芯组件焊接在一起，焊接完成后，热缩管推到焊点位置后，热封处理。

Female connector
母头组件



(3) Strip the cable to the specified dimensions.

(3) 按所示尺寸对线缆剥线

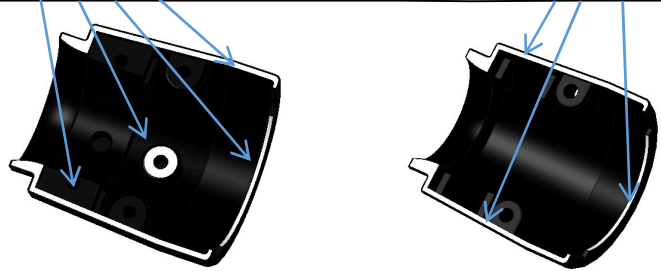


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(4) Grind off the coating of upper and lower housings at the indicated positions.

(4) 按所示位置对上下外壳去涂层打磨

Grind off the coating on the white surfaces of the housing.
按所示位置对上下外壳去涂层打磨

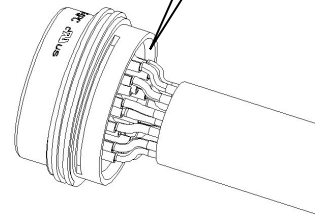


(5) Slide heat shrink tubing over the cable conductor first, then solder it to the insert assembly. After soldering, shift the heat shrink tubing to cover the solder joint and perform heat shrinking.

(5) 先将热缩管套入线缆导体上，再与内芯组件焊接在一起，焊接完成后，热缩管推到焊点位置后，热封处理。

PIN 针编号	功能
1	L1
2	N1
3	L2
4	N2
5	L3
6	N3
7	L4
8	N4
9	L5
10	N5
11	L6
12	N6
13	GND1
14	GND2
15	GND3
16	GND4
17	GND5
18	GND6
19	GND

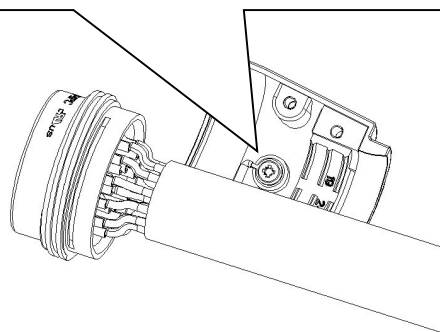
Solder
焊接



(6) Secure the ground wire to the housing with tapped ground holes using ground screws and washers.

(6) 用接地螺钉、垫片将接地线与带接地螺纹孔的外壳固定。

Fit the earth wire to the housing with earthing screws and washers.
接地螺钉、垫片将接地线装入外壳



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(7) Pre-assemble the cable clamp first, then secure the cable clamp to the wire harness assembly with screws.
(7)先预装线夹，再将线夹与线束组件用螺钉锁定。

Insert the plastic cable clip into the metal cable-clip.
塑料线夹装入金属线夹

Install the plastic cable clip into the lower-housing.
塑料线夹装入下外壳

Place the lower-housing assembly into the clamping groove of the female connector assembly.
下外壳组件放入母头组件卡槽

Torque wrench
扭力扳手

(8) Fasten the other half of the housing onto the cable bundle assembly via screws.
(8)将另一半外壳用螺钉固定在组束组件上。

Torque wrench
扭力扳手

