

## RLA 5.7mm 组装式接头安装说明

### The Assembly Manual for RLA 5.7 mm assembly type Connector



RLA00571-25BK

RLA00571-25OR

RLA00571-25RE

RLA00571-16BK

RLA00571-16OR

RLA00571-16RE

RLA00571-10BK

RLA00571-10OR

RLA00571-10RE



RLA9057-101-F1BK

RLA9057-101-F1OR

RLA9057-101-F1RE

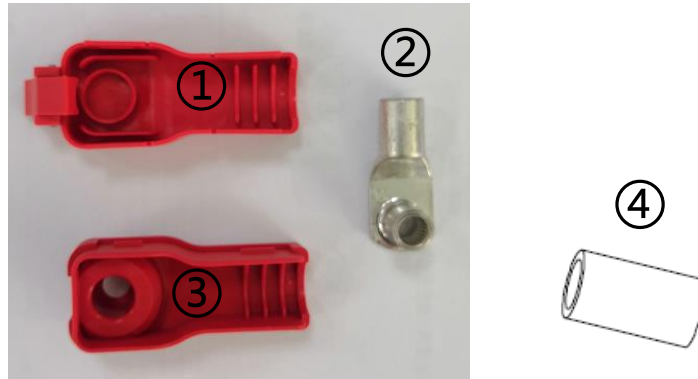
RLA9057-111-F1BK

RLA9057-111-F1OR

RLA9057-111-F1RE

## 第一部分：插头包装清单

### Part 1 : Package contents for Plug connector



- ① 上盖组件 Upper cover assembly ×1
- ② R4端子组件 R4 terminal Assy ×1
- ③ 下盖 Lower cover ×1
- ④ 铜套 Copper sleeve ×1

说明：只有在右图示系列增加铜套

Note: the copper sleeve is added in the series shown on the right only

RLA00571-16BK  
RLA00571-16OR  
RLA00571-16RE  
RLA00571-10BK  
RLA00571-10OR  
RLA00571-10RE

# 第二部分：插头组装

## Part 2: Plug Assembly

步骤1：切线与剥外被

Step1：Cut cable and strip jacket

1-1 切线：选择表1线缆，并按实际产品需求长度进行切线，

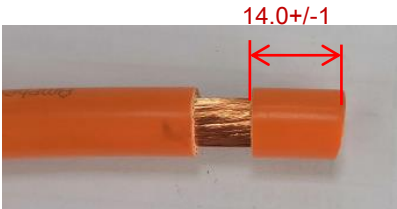
1-1 Cut cable: take the right cable according to table 1 and cut the cable according to product length.

表1：线材规格  
Table 1：Cable Spec

接头料号 Connector part no	线缆规格 Cable size	线缆外径 Accepted cable OD (mm)	线缆料号 Cable part no
RLA00571-25BK/OR/RE	25mm <sup>2</sup>	10.20±0.2	7P0025U
RLA00571-16BK/OR/RE	16mm <sup>2</sup>	8.10±0.2	7P0016U
RLA00571-10BK/OR/RE	10mm <sup>2</sup>	6.25±0.2	7P0010U

1-2 剥外被：按图示尺寸剥外被

1-2 Strip cable: Strip off cable jacket as shown in photo.



步骤2：取1pcs的 ② R4端子组件自左端穿上线缆推到底，并压接在其上(规格参照表2)，10与16平方线材需先穿入一个④铜套。

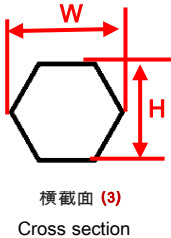
Step 2: Take a ② R4端子组件 R4 terminal Assy, load it to the cable end on the left, then crimp(refer to table 2) , 10 and 16 mm2 wire should be added a ④ copper sleeve at first.

表2：端子与线缆压接压接规格&拉拔力要求  
Table 2：Contact and Conductor Crimping spec & retention force requirement

线缆尺寸 Cable size	导体结构(mm) Conductor	压接高度 Crimping height (mm)	压接宽度 Crimping width (mm)	参考抗拉拔力 Retention Force	压缩比 compression ratio
25mm <sup>2</sup>	2183/0.12	7.4+/-0.2	8.6+/-0.2	2000N	80~90%
16mm <sup>2</sup>	1406/0.12	7.6+/-0.2	8.8+/-0.2	1500N	80~90%
10mm <sup>2</sup>	874/0.12	7.8+/-0.2	9.0+/-0.2	500N	80~90%

压接工具：免换模压接机BZW-6C  
Crimping tool：mould-free crimp machine BZW-6C

端子压接高宽度尺寸定义，“W”:为压接宽度，“H”为压接高度。  
Terminal crimping dimension definition：“W” crimping width and “H” crimping height.



- (1) 建议使用推荐线材（型号详见步骤1-1），如果客户选用其它电缆，请联系安费诺业务，协商订制零配件  
Recommended cable should be used. ( See section 1-1 for details. ) If you need to use customized cable, Please contact local sales for product extensions
- (2) 压接高度和拉拔力需要配合压接截面的金相分析，客户才能判断压接质量合格,端子压接需要满足压缩比要求：80-90%。  
Customers need to reconfirm cross section on crimping area and pull out force test to confirm the quality of crimp process, Terminal crimping needs to meet the compression ratio requirements: 80-90%.
- (3) 横截面仅供参考，客户负责采购压接工具或刀模  
Cross section shape is only for reference, all crimping tools needed are supposed to be prepared by customers.



步骤3：将压好端子的端子组件如图示装入③下盖，再盖上①上盖将接头紧固好。  
Step 5: Assemble the crimped terminal assembly into the ③ lower cover as shown in the figure, then cover the ① upper cover and secure the connector.



## 第三部分：插座组装

### Part 3: Socket Assembly

#### 1 RLA插座安装面板要求

##### 1 RLA Receptacle Install Panel Requirements

- 1、表面粗糙度 pimpling:Ra3.2
- 2、平面度planeness:0.2mm
- 3、推荐安装面板厚度:2.0mm (The thickness of the panel)

#### 2 RLA插座安装扭力要求

##### 2 RLA Receptacle Install torque requirements

- 1、推荐安装扭力Install torque: 0.8N.m
- 2、M5螺纹柱安装扭力Mounting torque of M5 screw: 1.5~2.0N.m

#### 3 RLA接头装配方法

##### 3 RLA connector assemble method

- 1、按住接头卡扣进行接头的组装与拆除。
- 1、Press the button to assemble and remove the connector.



版本记录 Revision history

序号 Number	变更内容 Content of change	日期 Date
00	新出 New issue	20210811



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