

PLA482X-300-XX-GN 二芯直头连接器安装说明

The Assembly Manual For PLA482X-300-XX-GN 2Pos Straight Plug



PLA482X-300-XX-GN



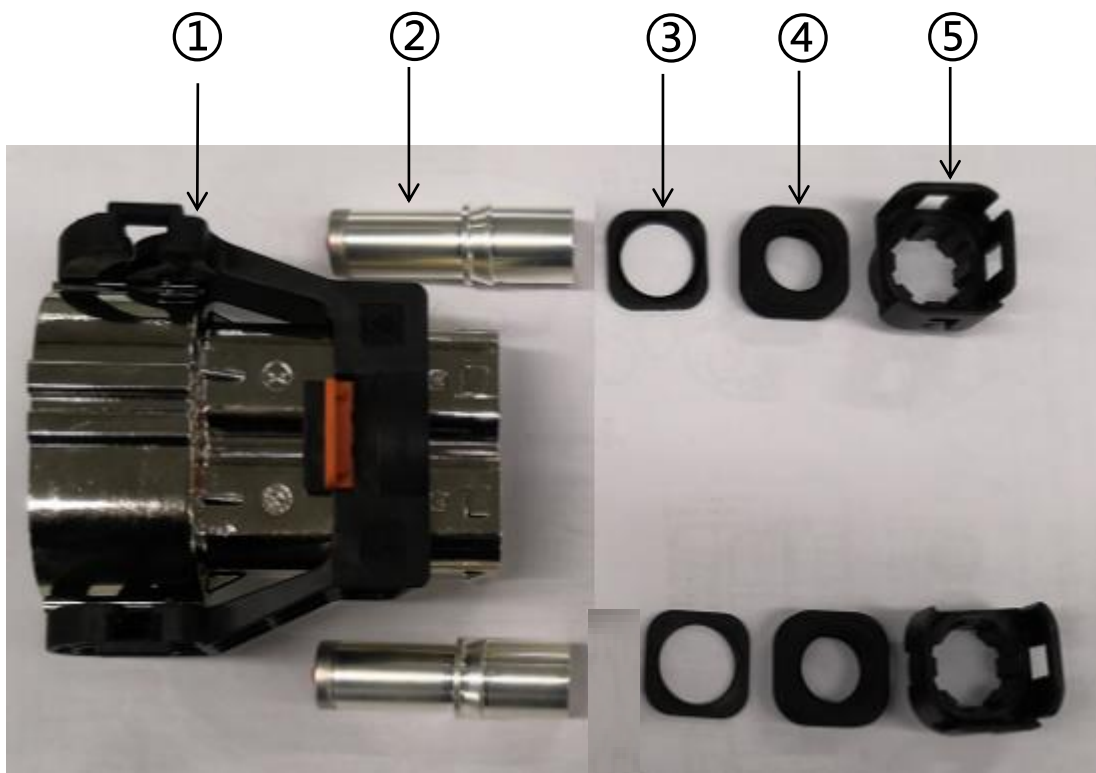
线缆大小

Cable Size
mm²

35
60

第一部分：包装清单

Part 1 : Package contents



- ① 屏蔽壳组件 Shield shell assembly ×1
- ② 端子组件 terminal Assy ×2
- ③ 塑料垫圈 Plastic Gasket ×2
- ④ 密封圈 Sealing ×2
- ⑤ 尾盖 End cap ×2

第二部分：插头组装

Part 2: Plug Assembly

步骤1：穿配件

Step1 : Assemble the accessories

1-1 线缆准备：按生产需求从表1选择合适尺寸的线缆，并裁剪

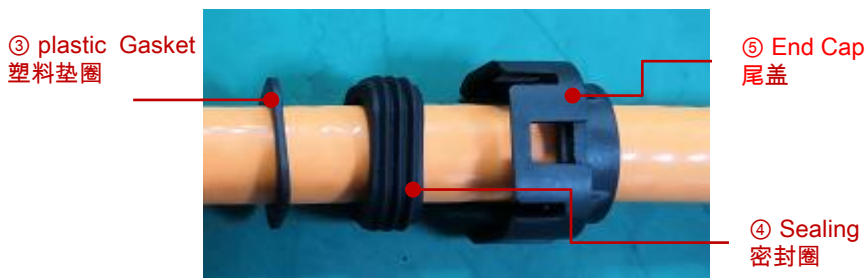
1-1 Cable preparation : take right-sized cable and cut the cable according to production plan from the table 1

表1：线材规格
Table 1 : Cable size

连接器 Connector	线缆尺寸 Cable size	线缆外径 Accepted cable OD (mm)	导体结构(mm) Conductor	线材用量 The number of cable
PLA482X 系列 PLA482X Series	35mm ²	11.80+/-0.40	1965/0.15	2PCS
	60mm ²	14..50±0.50	3367/0.15	2PCS

① 1-2 取各1pcs的⑤尾盖，④密封圈，③塑料垫圈，从左边依次穿过线缆

1-2 Take each 1pcs of ⑤ end cap, ④ Sealing, ③ Plastic gasket, and make them pass through the cable from left in sequence



步骤2：剥线皮，按表2尺寸剥外被

Step 2 : Stripping, Strip off cable jacket as following size from the table 2

表2：剥线长度
Table 2 : Strip length

连接器 Connector	线缆尺寸 Cable size	外被剥线长 B Stripping jacket (mm)
PLA482X 系列 PLA482X Series	35mm ²	17.0±0.5
	60mm ²	17.0±0.5



步骤3：取1pcs的 ② 端子组件 自左端穿上线缆，并压接在其上(规格参照表3)

Step 3: Take a ② Terminal Assy, load it to the cable end on the left, then crimp (refer to table 3)



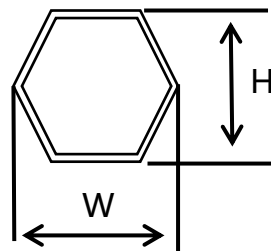
表3：端子与线缆压接规格&拉拔力要求

Table 3 : Contact and Conductor Crimping spec & retention force requirement

连接器 Connector	线缆尺寸 Cable size	线缆外径 (φ) Accepted cable OD (mm)	压接高度 (h) Crimping height (mm)	参考抗拉拔力 (F) Retention Force
PLA482X 系列 PLA482X Series	35mm ²	11.8±0.40	10.20 ±0.25	2300N
	60mm ²	14.5+/-0.50	12.40 ±0.25	3100N

压接工具：免换模压接机 BZW-6C

Crimping tool : Dieless crimping machine BZW-6C



(1) 建议使用 线材 (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

Recommend to use. (See section 1-1 for details of cable part numbers.) If you need to use customized cable, Please contact local sales for product extentions

(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, 压缩比要求为 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 must 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 only reference tooling geometry ,customer will take liability for sourcing tools or dies

步骤4：取出①屏蔽壳组件（样品参照下面的图片）

Step 4: Take each 1pcs of ① Shield shell assembly (sample refer to picture below)



Key mark on connector 连接器标示	X
Inner Pin color 防触摸Pin颜色	Orange 橙色

步骤5：取出2PCS 压接好的线缆组件，按PIN位插入接头直到听到“咔”响表示安装到位，

Step5: Take out 2PCS of crimped cable assembly and insert it into the connector until a "click" is heard to indicate that the connector is installed in place.

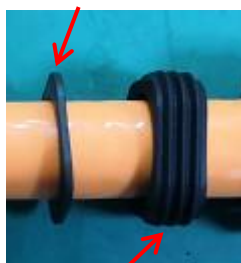


步骤6：将塑料垫圈与密封圈装入接头如图所示。

•Step6: load the plastic Gasket and sealing into the connector as shown.

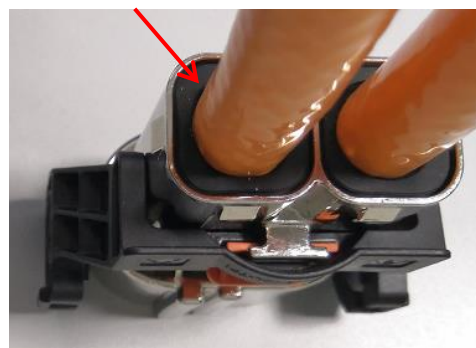


③ plastic Gasket
塑料垫圈



④ Sealing
密封圈

略低于接头尾端
Slightly under the end of the connector



步骤7：先后盖上后盖，完成产品组装。

Step 7: Cover the end cover successively and complete the product assembly.



6个卡扣全部到位
All six buckles
are in right place

步骤8：在线缆组装好后需要做绝缘电阻和耐压测试，建议客户参考下面的测试参数

Step 8: Need to do the Insulation Resistance and DWV test after cable assembly. It is recommended that the customer refer to the following test parameters

8-1 绝缘电阻测试

8-1 Insulation Resistance

Positions 位置	Test voltage/time 测试电压/时间	测试时间 (推荐) Test Time (recommended)	Insulation resistance 绝缘电阻
Cable(power) to shell 电缆芯线到壳体	1000 VDC	5S	> 500 MΩ

8-2 Dielectric Withstand Voltage

8-2 耐压测试

Positions 位置	Test voltage 测试电压	测试时间 (推荐) Test Time (recommended)	Leakage Current 漏电流
Cable(power) to shell 电缆芯线到壳体	5000 VDC	10S	< 5mA

8-3 测试说明:

警告: 建议的电气测试及其参数应根据终端应用要求进行审查，以确保安全性并防止损坏其他部件。提供的参数是基于PLA连接器和其峰值1000VDC额定。提供的测试参数可能超出电缆组件或设备上使用的其他部件/材料的限制。

8-3 Test note:

caution: Recommended electrical tests and their parameters should be reviewed against end application requirements to ensure safety and to prevent damage to other components. Parameters provided are based on the PLA connectors and their peak 1000VDC rating. Test parameters provided may exceed the limit of other components/materials used on the cable assembly or device.



Amphenol Technical Products International provides the above product specifications for the standard PLA series of connectors to assist users in identifying the correct product for the system to which the connectors may be applied. Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. Specifications are typical and may not apply to all connectors. Note that these specifications are derived from relevant global standards used in the automotive and industrial transportation markets, but they are not a substitute for system level design validation testing, which is the sole responsibility of the system designer and/or end user.

Asia Pacific

ChangZhou, China
Tel: +86 519-8981 9713
Add: No.11 Fengxiang Road, New District, Changzhou, Jiangsu
P.C: 213001

Asia Pacific

GuangZhou, China
Tel: +86 20-3210 6099
Add: 9th Floor, No. 10, the 4th Street, Kehui Jingu, Luogang District, Guangzhou ,Guangdong
P.C: 510663

North America

Winnipeg, Canada
Tel: +1 204 697 2222
Add: 2110 Notre Dame Avenue

Europe

Milano, Italy
Tel: +39 02 932541
Add: Via Barbaiana 5, 20020 Lainate(MI)

Email: info@Amphenol-GEC.com