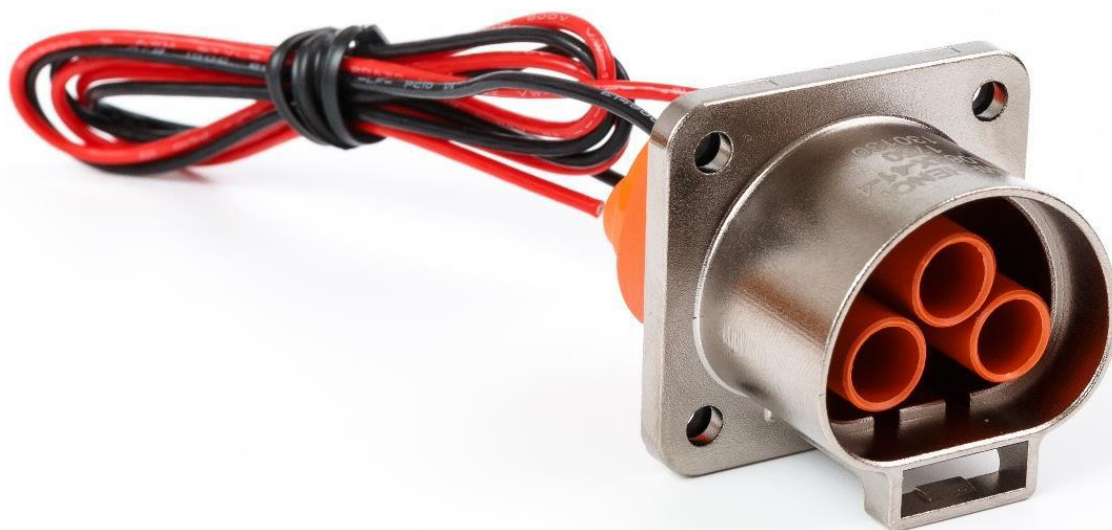


PowerLokTM4.0 三芯插座组装规范PowerLokTM4.0 3POS Receptacle Assembly Manual

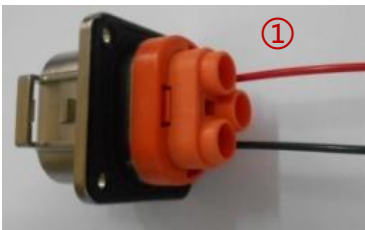


Product Type 产品类型		Connector Type 连接器类型		Key & Color ⁽¹⁾ 键位 & 颜色		Series 系列		Cable Size 线材尺寸	
PL	PowerLok™ 4.0	083	3POS Receptacle, 三芯插座	X	Key "X" Orange X 键位 橙色	40	40 Series without HVIL 40 系列 不带高压互锁	2.5	2.5mm²
				Y	Key "Y" Black Y 键位 黑色			4	4mm²
				U	Key "U" Yellow U 键位 黄色	41	41 Series With HVIL 带高压互锁 的41系列	6	6mm²

(1) 颜色是指插头上CPA的颜色。Color refers to the color of the CPA on the plug.

安装步骤 Assembly Instruction

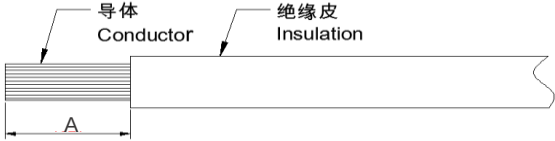
步骤1: 取出连接器, 如图示零件
Step1: Unpack all components as shown below.



①连接器组件 Connector Component ×1

②端子 Terminal ×3

步骤2: 选择符合要求的非屏蔽线缆(参考手册最后的附录)
Step2: Select the right Un-shielding cable according to your connector and the cable specification below (refer to the appendix) .

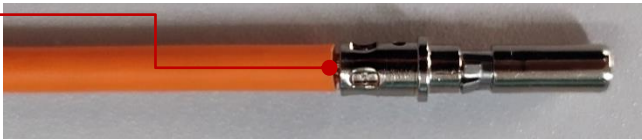


线缆规格 Cable Size	剥皮尺寸 (B) Strip Length (mm)
2.5mm² or 14AWG	6.5±0.5
4mm² or 12AWG	7.5±0.5
6mm² or 10AWG	7.5±0.5

步骤3: 套上端子然后压紧 (压接参照IPC620规范) , 压紧后端子保持力不小于下表中数据
Step3: Insert the cable into the terminal, then crimp the terminal (refer to IPC620), the minimum retention force after crimping is as required in list below.

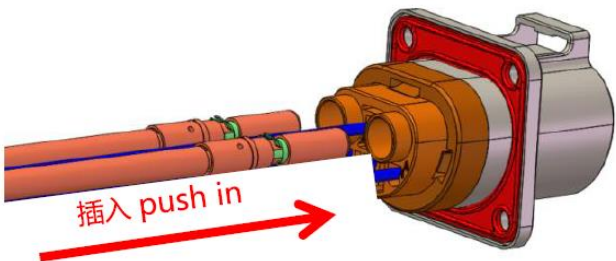


此处压接端子
Crimp terminal here

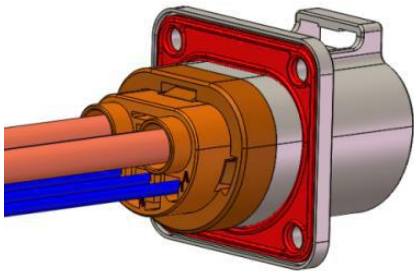


线缆规格 Cable size	保持力 Min retention force	压接尺寸H Crimp dimension
2.5mm²	220 N	2.2±0.1mm
4mm²	300 N	2.5±0.1mm
6mm²	350 N	2.9±0.1mm

- 步骤4：把端子匀速推进胶壳孔位底部，至听到一声‘啪’，方为插到位
Step4: Insert the terminals into ①connector component, it's in place when it clicks.



- 步骤5：完成组装
Step5: Completed cable harness.



- 步骤6：建议客户参考下面的测试参数,对线束进行绝缘电阻测试和耐压测试
Step6: Insulation resistance and dielectric withstand voltage tests are obligated to be done according to below test parameters to guarantee the good electric performance of the whole harness

6-1 绝缘电阻测试
6-1 Insulation Resistance Test

位置 Positions	测试电压（直流） Test Voltage(DC)	绝缘电阻 Insulation Resistance
电缆到壳体 Cable(power) to shell	1000 V	> 500 MΩ
电缆到高压互锁 Cable(power) to HVIL	1000 V	> 500 MΩ
高压互锁到壳体 HVIL to shell	1000 V	> 100 MΩ

6-2 耐压测试
6-2 Dielectric Withstand Voltage Test

位置 Positions	测试电压（直流） Test Voltage(DC)	漏电流 Leakage Current
电缆芯线到壳体 Cable(power) to shell	5000 V	<5mA
电缆芯线到高压互锁 Cable(power) to HVIL	5000 V	<5mA
高压互锁到壳体 HVIL to shell	500 V	<5mA

附录APPENDIX

线缆参考规范
Reference specification for cables

线缆类型 Cable Type	电线尺寸 Cable Size	导体结构(mm) Conductor	导体外径(mm) Conductor OD	电线外径(mm) Cable OD
非屏蔽线 Un-shielding cable	2.5mm ²	217*0.12	2.1	3.30±0.2
	4.0mm ²	350*0.12	2.9	4.10±0.2
	6.0mm ²	525*0.12	3.6	4.80±0.2



Amphenol Technical Products International provides the above product specifications for the standard PowerLok™4.0 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, Huangpu 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