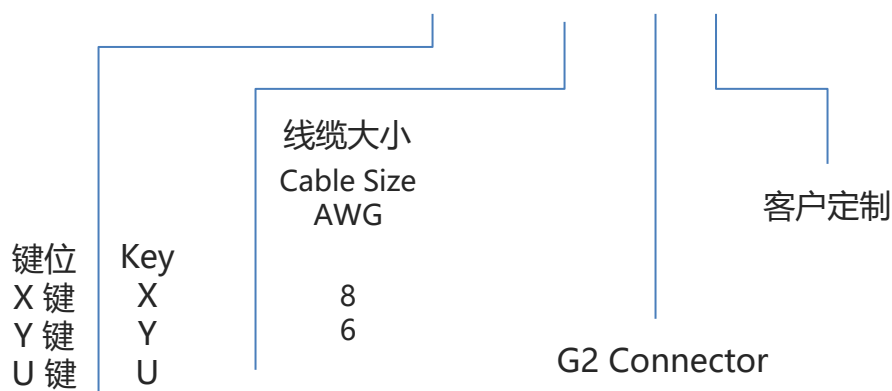


PL482X-60-XG-2-DQ 4.0 两芯定制插头组装规范

PL482X-60-XG-2-DQ 4.0 2POS Plug Assembly Manual



PL482(X)-60-XG-2-DQ



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 连接器主体 Connector Body ×1
- ② 端子 Terminal ×2
- ③ 密封圈 Seal ×1
- ④ 后盖 Back Cover ×1



步骤2：选取合适线缆(参考手册最后的附录)，按照图示尺寸剥离外被，保留隔离层，线材用量为2PCS。
Step2：Select the right cable(refer to the appendix), prepare the cable according to the sketch，keep the clear Separator, The amount of cable is 2PCS.



线缆规格 Cable Size	外被剥线长度 Jacket strip length (mm)
8AWG	9.5±0.5
6AWG	9.5±0.5

步骤3：拿取④后盖，③密封圈,自左端依次穿过已剥好的线缆。
Step3：Take ④ back cover ③ seal，insert cables through their holes from left in sequence.



步骤4：拉开外皮，剪除线材上的隔离层，装上②端子。
Step4：Pull off the stripped jacket, cut off the clear separator on the cable, and install ② terminal.



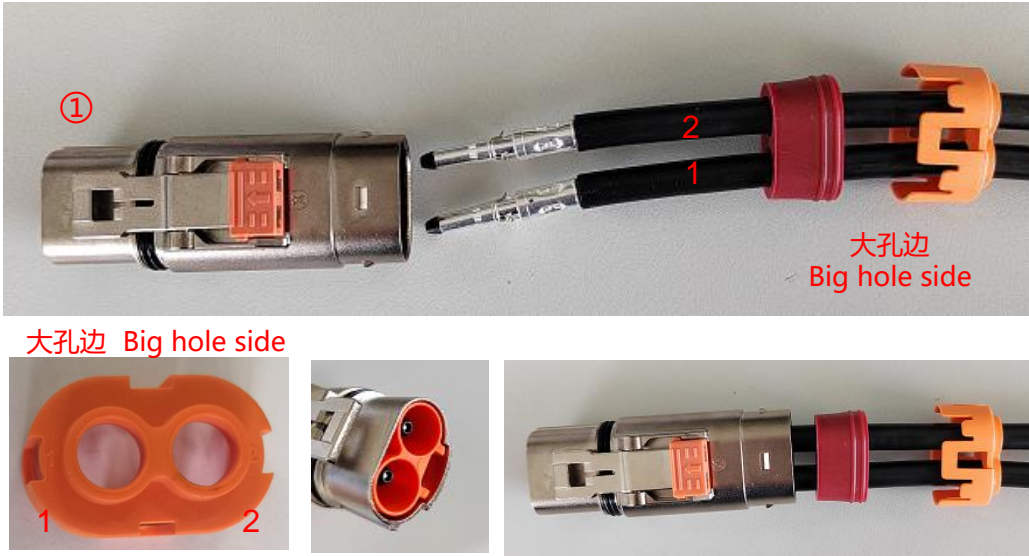
步骤5：调试好四点压接机，将端子压接在线缆导体上, 压接后端子抗拉拔力不小于如下表格数值。
Step5：After adjust the four-point crimping machine, crimp the terminal to the cable conductor, and ensure that the terminal pull-out force is not less than the value in the following table.



线缆规格 Cable size	保持力 Min retention force
8AWG	475 N
6AWG	830 N

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, 芯线压缩比要求为 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 of conductor requirements: 80~90%.

步骤6：拿出接头主体 ①，将端子推进接头底部，当受力时左手握住接头主体并压住胶芯，先后将单根线材推到位，至听到一声“咔”响表示已插到位。
Step6：Take out the ① main body of the connector, push the terminal into the bottom of the connector, hold the main body with the left hand and press the housing when the force is felt, and push the single cable into place successively until a “click” is heard.



步骤7：将密封圈装进连接器主体里，扣上后盖，完成组装。
Step7：Push the seal into the bottom of connector body and buckle up back cover to finish the assembly.



步骤 8：在电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 Test

位置 Positions	测试电压 Test Voltage	测试时间（推荐） Test Time (recommended)	绝缘电阻 Insulation Resistance
电缆到壳体 Cable(pin) to shell	1000 VDC	5S	> 500 MΩ
电缆到电缆 Cable(pin) to Cable(Pin)	1000 VDC	5S	> 500 MΩ

8-2 耐压测试

8-2 Dielectric Withstand Voltage Test

位置 Positions	测试电压 Test Voltage	测试时间（推荐） Test Time (recommended)	漏电流 Leakage Current
电缆芯线到壳体 Cable(pin) to shell	5000 VDC	10S	<5mA
电缆芯线到电缆芯线 Cable(Pin) to Cable(Pin)	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PowerLok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 PowerLok connectors and their peak 1000VDC rating. Test parameters provided may exceed the limit of other components/materials used on the cable assembly or device.

附录APPENDIX

线缆参考规范
Reference specification for cable

线缆类型 Cable Type	电线尺寸 Cable Size	导体结构(mm) Conductor	电线外径(mm) Wire OD	线缆料号 Cable PN
非屏蔽线 Unshielding cable	8AWG	37/0.51	6.9±0.35	RHW-2 8AWG
	6AWG	61/0.51	9.0±0.4	RHW-2 6AWG

版本记录 Revision history

序号 Number	版本 Rev	变更内容 Content of change	日期 Date
1	01	新出 New issue	2022/05/05



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