

<b>Amphenol</b> PCD Shenzhen	<b>HVSL282 连接器组装规范</b>	Doc. No.: APCD-TD-261
		Rev.: B
		Page: 1 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

修订履历 Revision History				
修订日期 Date	版本 Rev.	修订内容 Updated Content	作者 Originator	备注 Remark
2017-02-28	A	First release	杨圣祥	
2017-05-10	B	产品部分结构变更	杨圣祥	

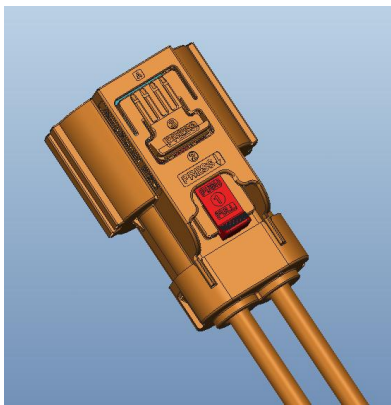
制作 Prepared By: 杨圣祥	审核 Checked By:	批准 Approved By:
日期 Date: 2017-05-10	日期 Date:	日期 Date:

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		Rev.: B
		Page: 2 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

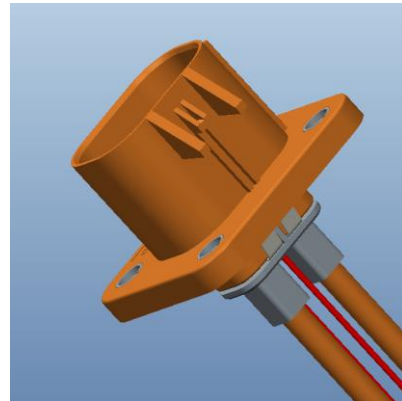
## 1. SCOPE

本规范适用范围为 HVSL 系列连接器。

This following assembly guidelines apply to the HVSL282 series connector.



插头 Plug



插座 Socket

## 2. ASSEMBLY INSTRUCTIONS(PLUG)

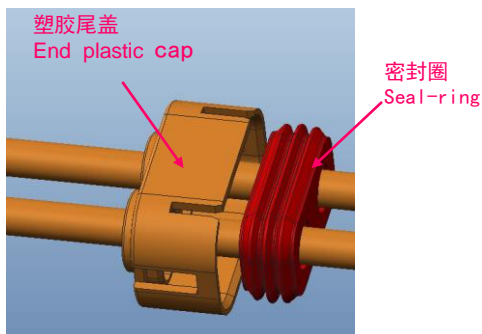
2.1、选择符合以下要求的屏蔽线缆。

Choose required shielding

线缆规格 Cable Spec	直径OD (mm)
2.5-3.0mm <sup>2</sup>	4.7-5.3
4mm <sup>2</sup>	5.1-5.7

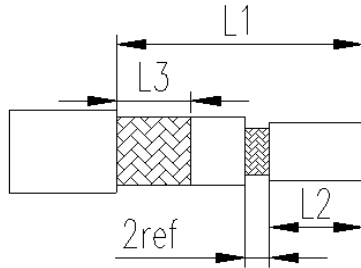
2.2、将塑胶尾盖、密封圈依次穿入线缆上。

End plastic cap、seal-ring onto cable as shown.



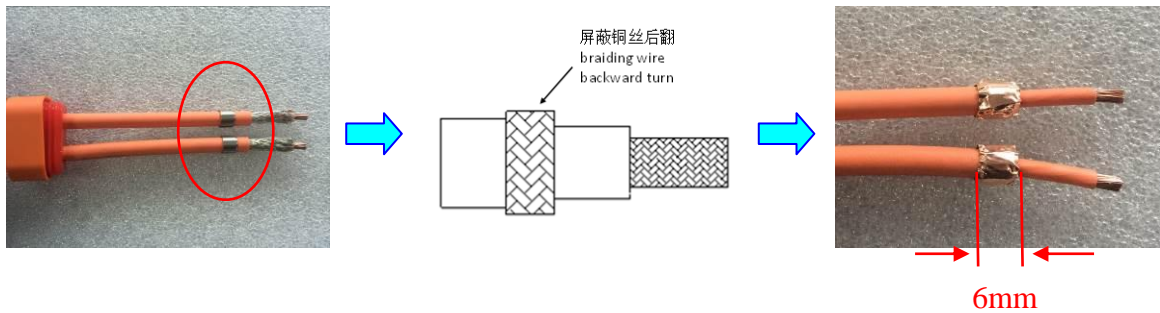
<b>Amphenol</b> <b>PCD Shenzhen</b>	<b>HVSL282 连接器组装规范</b>	Doc. No.: APCD-TD-261
		Rev.: B
		Page: 3 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

- 2.3、按尺寸剥开线缆护套、屏蔽层、绝缘层。  
Strip jacket、braiding wire、insulation as shown below。

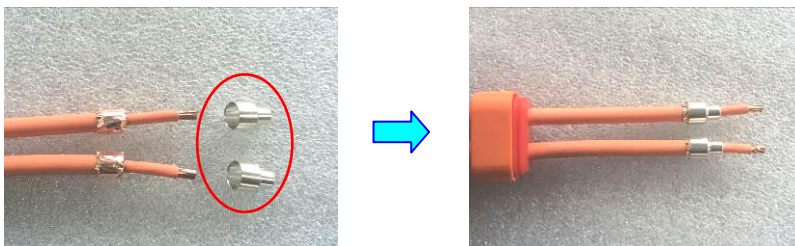


插头规格 Connector Spec	剥护套尺寸L1 (mm) Strip jacket size	剥芯线尺寸L2 (mm) Strip core wire size	屏蔽尺寸L3 (mm) Shield size
2.5-3mm <sup>2</sup>	19 ± 0.5mm	5 ± 0.5mm	6 ± 0.5mm
4mm <sup>2</sup>	19 ± 0.5mm	6 ± 0.5mm	7 ± 0.5mm

- 2.4、将内金属环推到剥皮口处，屏蔽铜丝全部后翻，在屏蔽上包一层 6mm 铜箔。  
Push the inner ferrule to peeling mouth, Shielding wire backward turn, with 8mm copper foil bag tight.

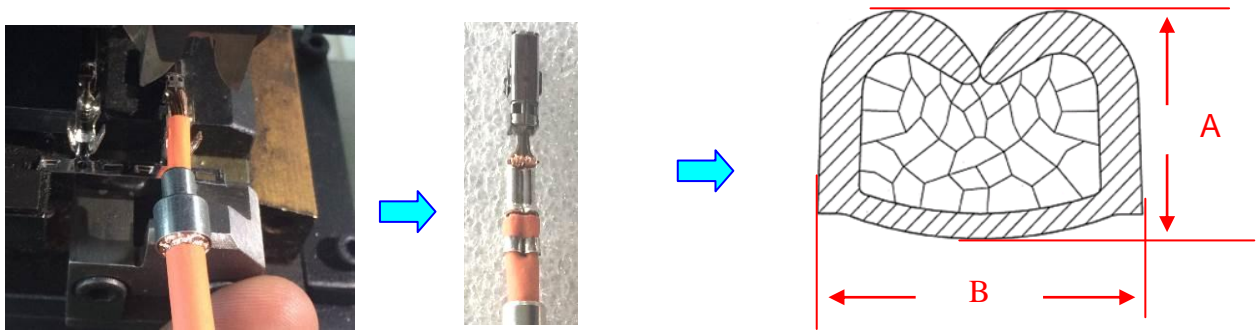


- 2.5、将外金属环穿套到铜箔上。  
Assemble the outer-ferrule on the copper foil.



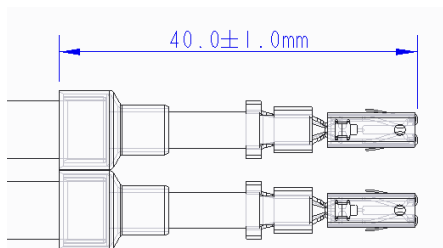
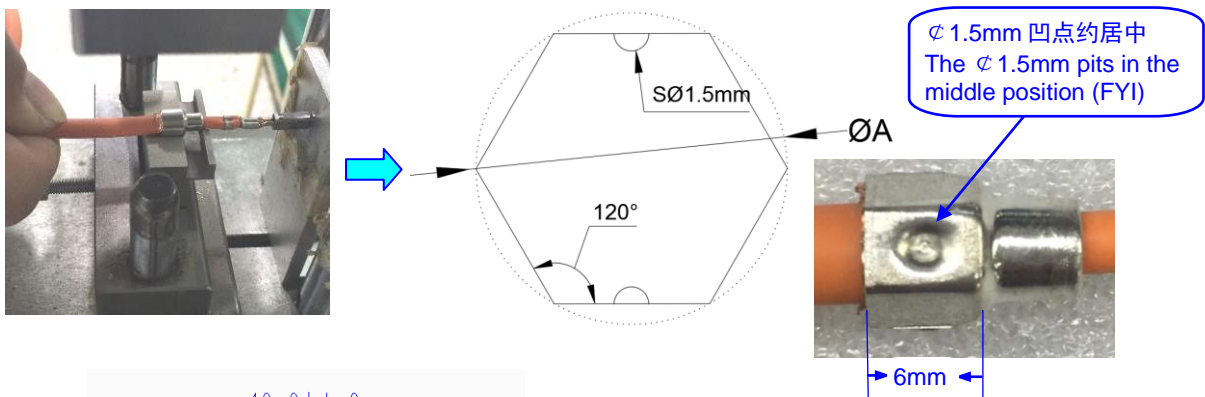
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		Rev.: B
		Page: 4 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

2.6、 铆压端子,压接后尺寸如下图要求。  
 Crimping terminal, after crimping.



插头规格 Connector Spec	尺寸A (mm) Measure A	尺寸B (mm) Measure B
2.5-3mm <sup>2</sup>	2.0 ± 0.05mm	3.2 ± 0.05mm
4mm <sup>2</sup>	2.3 ± 0.05mm	3.3 ± 0.05mm

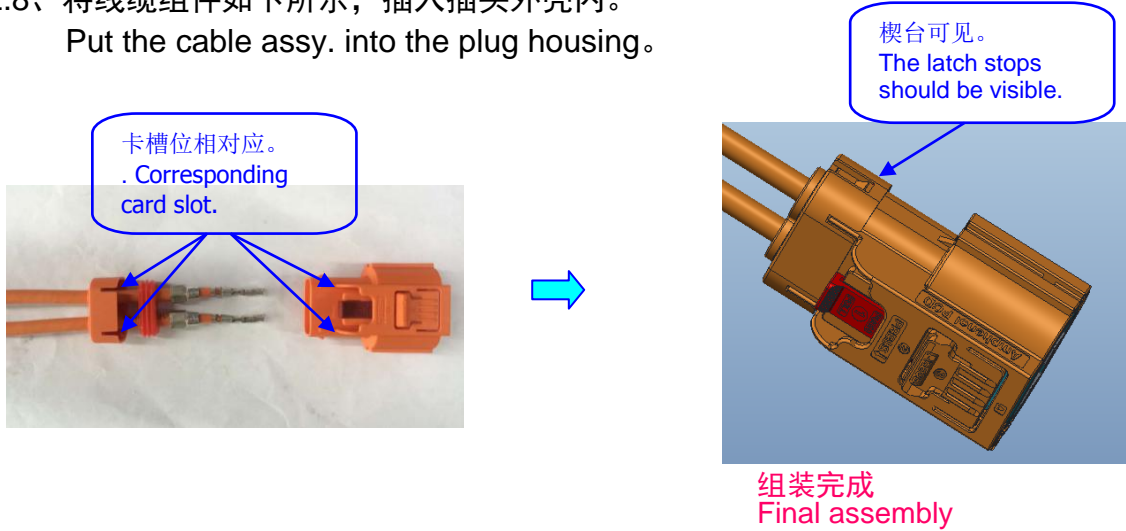
2.7、 压接金属环, 压接尺寸如下图。  
 Crimping the outer-ferrule, crimping dimensions as follow.



线缆规格 Cable Spec	2.5mm <sup>2</sup> -3.0mm <sup>2</sup>	4.0mm <sup>2</sup>
Ø A (mm)	7.4 ± 0.1	8.6 ± 0.1

<b>Amphenol</b> <b>PCD Shenzhen</b>	<b>HVSL282 连接器组装规范</b>	Doc. No.: APCD-TD-261
		Rev.: B
		Page: 5 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

2.8、将线缆组件如下所示，插入插头外壳内。  
Put the cable assy. into the plug housing.



### 3. TEST INSTRUCTIONS

- 3.1、 100%耐压、绝缘测试。  
100%High-voltage、insulation test  
AC3000V, 10S, 漏电流 $\leq$ 5mA. DC 500V, 10S, 绝缘电阻 $\geq$ 100M $\Omega$   
AC3000V, 10S, Leakage current $\leq$ 5mA. DC 500V, 10S, Insulation resistance $\geq$ 100M $\Omega$
- 3.2、 100% 导通测试。  
100% Continuity test.
- 3.3、 100% IPX7 防水测试。  
100% IPX7 Water proof test

<b>Amphenol</b> <b>PCD Shenzhen</b>	<b>HVSL282 连接器组装规范</b>	Doc. No.: APCD-TD-261
		Rev.: B
		Page: 6 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

## 4. ASSEMBLY INSTRUCTIONS(Socket)

4.1、选择符合以下要求的屏蔽线缆或非屏蔽线。

Choose required shielding or shielding wire .

线缆规格 Cable Spec	直径 OD (mm)
3.0mm <sup>2</sup>	5.0-5.4
4.0mm <sup>2</sup>	5.4-5.8

Shielding Cable

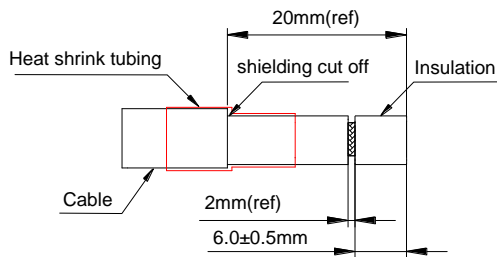
4.0mm<sup>2</sup>/6.0mm<sup>2</sup>依照 ISO 6722:2006  
国际汽车电线标准  
4.0mm<sup>2</sup>/6.0mm<sup>2</sup> With reference to ISO  
6722:2006 the international standard

信号线规格 Signal cable Spec	直径 OD (mm)
0.5mm <sup>2</sup>	1.6-1.8

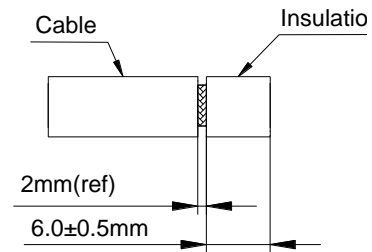
Unscreened Shielding Cable

4.2、按尺寸剥开电源线缆护套、绝缘层。

Strip jacket、insulation for power cable as shown below.



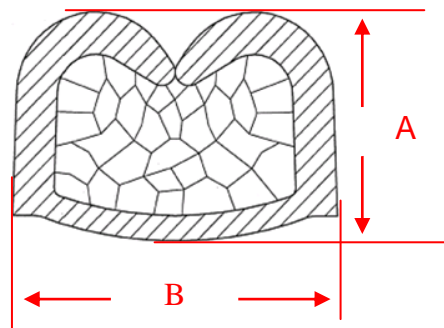
Shielding Cable



Unscreened Shielding Cable

4.3、铆压电源线端子，压紧端子后抗拉力不小于下表中数值，压接后尺寸如下图要求。

Crimping power wire terminal, after crimping, the tensile force require and dimensions as follow.



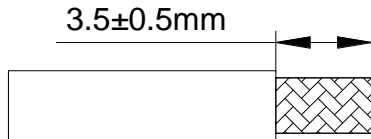
线缆规格 Cable spec	3.0mm <sup>2</sup>	4.0mm <sup>2</sup>
A (mm)	2.0±0.06	2.3±0.06
B (mm)	3.2±0.06	3.2±0.06



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		Rev.: B
		Page: 7 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

4.4、信号线剥绝缘层。

Signal line strip insulation as shown below.



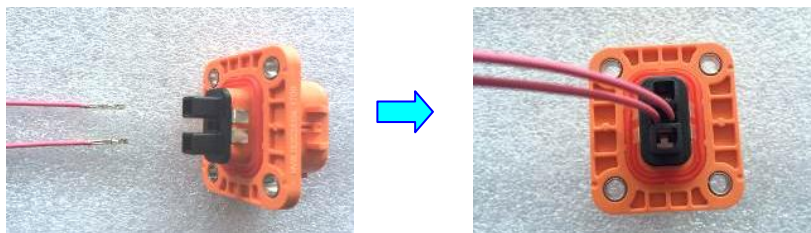
4.5、铆压信号端子，压紧端子后抗拉力≥57.9N，压接后尺寸如下图要求。

Crimping signal terminal, after crimping, the tensile strength  $\geq 57.9\text{N}$ , terminal crimping dimensions as follow.



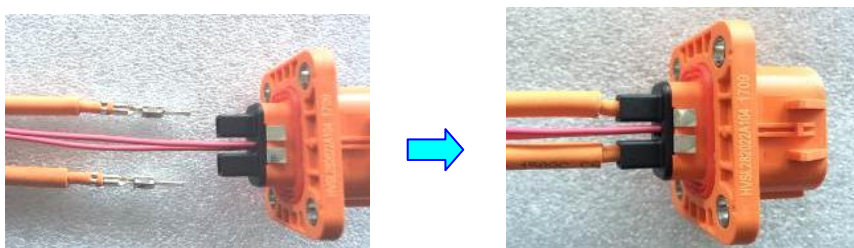
4.6、将信号线插入中间小孔中。如图所示。安装完将线缆轻轻向外拉动，检查端子安装到位。

Insert the signal cable into the small hole in the center of the connector. Gently pull on the cable to ensure the contact is in place.



4.7、将压好公针线缆装入胶壳孔内,安装完成后将线缆轻轻向外拉动，检查端子安装到位。

Put the male contact's cable into the housing as shown below. Gently pull on the cable to ensure the contact is in place.



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		Rev.: B
		Page: 8 of 8
<b>Subject: Assembly Instruction for HVSL282 Connector</b>		Eff. Date: 2017-02-28

## 5、TEST INSTRUCTIONS

5.1、100%耐压、绝缘测试。

100%High-voltage、insulation test

AC3000V, 10S, 漏电流 $\leq$ 5mA. DC 500V, 10S, 绝缘电阻 $\geq$ 100M $\Omega$

AC3000V, 10S, Leakage current $\leq$ 5mA. DC 500V, 10S, Insulation resistance $\geq$ 100M $\Omega$

5.2、100% 导通测试。

100% Continuity test。