Amphenol PCD Shenzhen	HVSL362 Series	Doc. No.: APCD-TD-387 Rev.: B Page: 1 of 6
Subject: HVSL362 Series connector assembly guidelines		Eff. Date: 2019-05-29

Revision History

Date	Rev.	Updated Content	Originator	Remark
2018-07-11	A	First release	Verne	
2019-05-29	B	Increase cable specification	Sheng Xiang .Yang	

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Date: 2019-05-29 Date: 2019-05-29 Date: 2019-05-29

1. Scope

This following assembly guidelines apply to the HVSL362 series connector.

HVSL362 06X

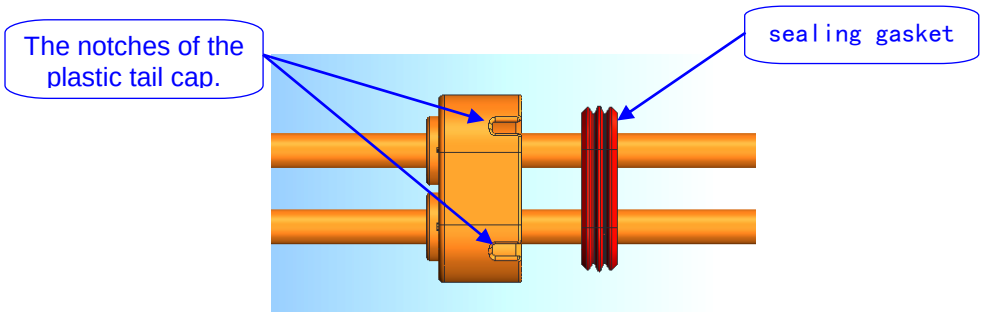
HVSL362 02X

2. Plug assembly guidelines

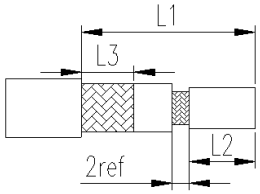
2.1、Select a shielded cable that meets the following requirements.

Cable size	Diameter OD (mm)	Cable size	Diameter OD (mm)
10.0mm2	9. 20−9. 80	6.0 mm²	6.10-6.50
10.0mm2	8. 40−8. 80	16.0 mm²	9.10-9.90

2.2、Pass the cables through the plastic tail cap and then, the sealing gasket.

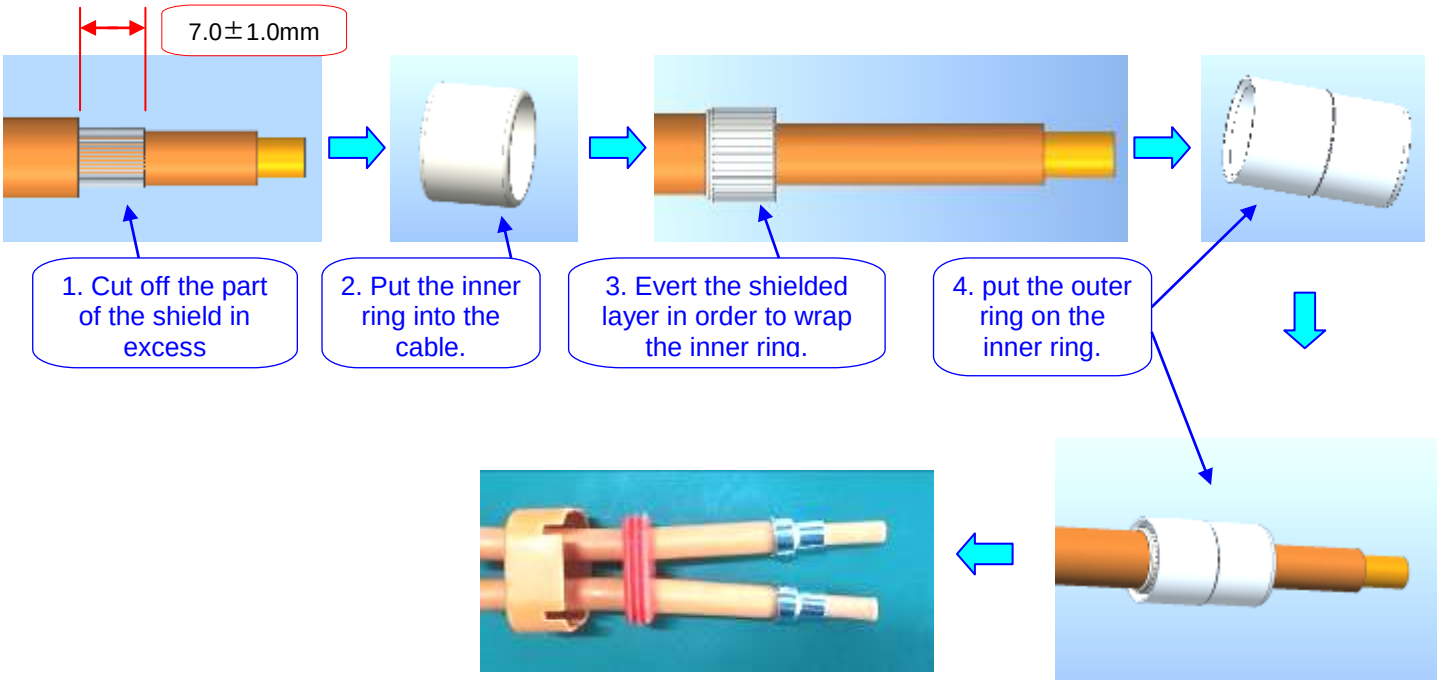


2. 3、 Strip the cables' jacket, the shielding layer and the insulation according to the dimensions below.

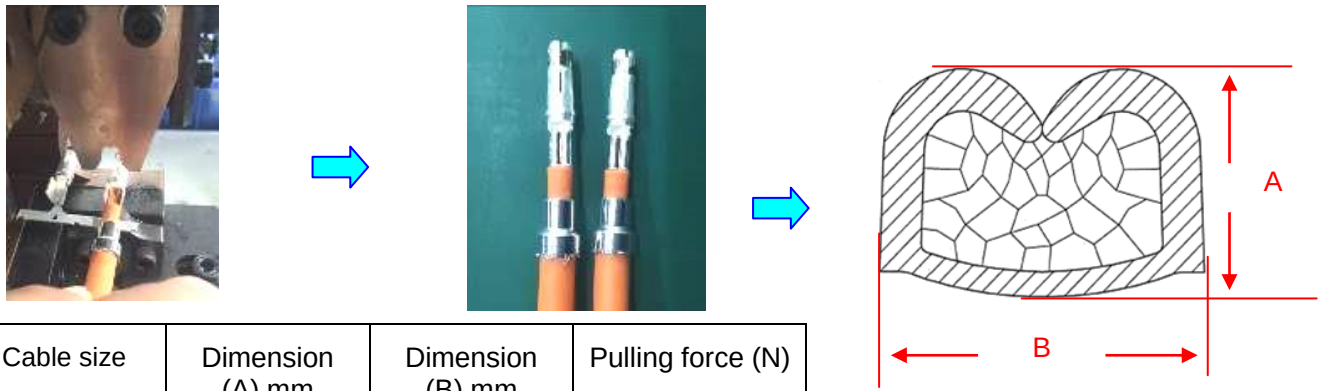


Strip jacket dimensions L1 (mm)	Strip insulation dimensions L2 (mm)	Shielding dimensions L3 (mm)
27.0±1mm	10±0.5mm	7.0±1.0mm

2.4、 Cut off the part of the shield in excess, then put on the inner ring. Evert the shielded layer in order to wrap the inner ring. Finally, put on the outer ring.

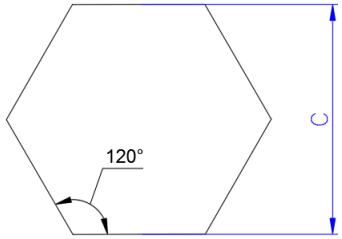


2.5、 Crimp the contacts**.** Dimensions and tension requirements are as follows:



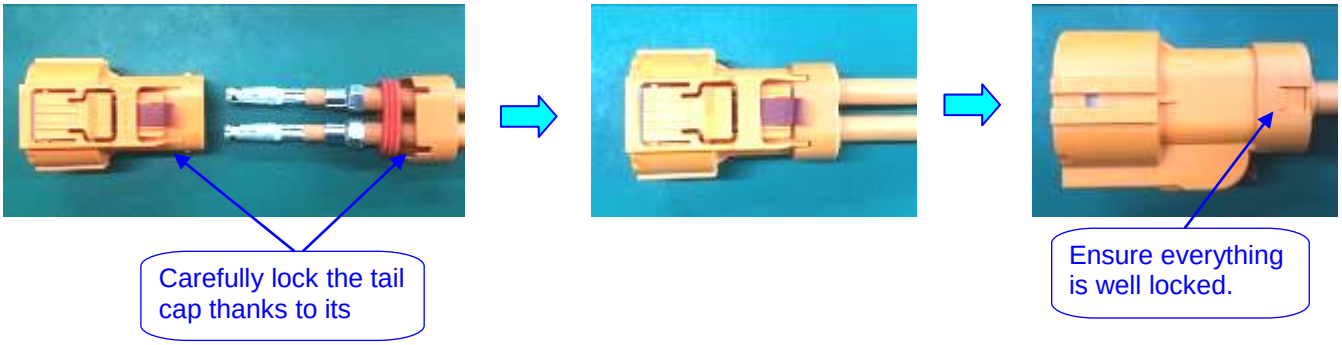
Cable size	Dimension (A) mm	Dimension (B) mm	Pulling force (N)
6.0 mm²	3.80±0.10	5.80±0.10	⩾450
10.0 mm²	3.95±0.10	5.80±0.10	⩾500
16.0 mm²	5.20±0.10	6.40±0.10	⩾1500

2.6、 Crimp the shielding ring, crimping shape and dimensions as shown(FYI). retention force as below.



Cable size	Diameter OD (mm)	Crimp dimensions C (mm)	Retention force(N)
6.0mm²	6.10–6.50	8.0±0.1	≥100N
10.0mm²	9.20–9.80	10.2±0.1	≥100N
10.0mm²	8.40–8.80	9.4±0.1	≥100N
16.0mm²	9.10–9.90	10.6±0.1	≥100N

2.7、Insert the cables into the connector housing.



3. Test

3.1、 100% withstand voltage and insulation test.

AC3000， 10S，Leakage current≤5mA
DC 500V，10S，Insulation resistance≥100MΩ

3.2、 100% conduction test.

3.3、 100% IPX7 water-proof test.

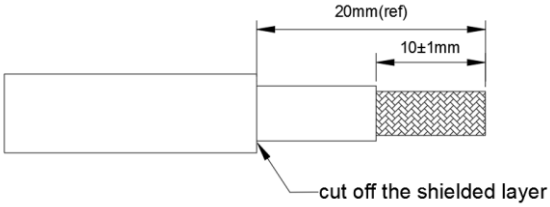
4. Receptacle assembly guidelines

4. 1、Select a shielded or unshielded cable according to the following requirements.

Cable size	Diameter OD (mm)
6.0 mm²	5. 60−6. 00
10.0 mm²	6. 50−6. 90
16.0 mm²	7. 20−6. 60

信号线规格 Signal cable Spec	直径 OD（mm）
0.5mm2	1.6-1.8

4.2、 Strip the cable's jacket and the insulation layer according to the dimensions below.

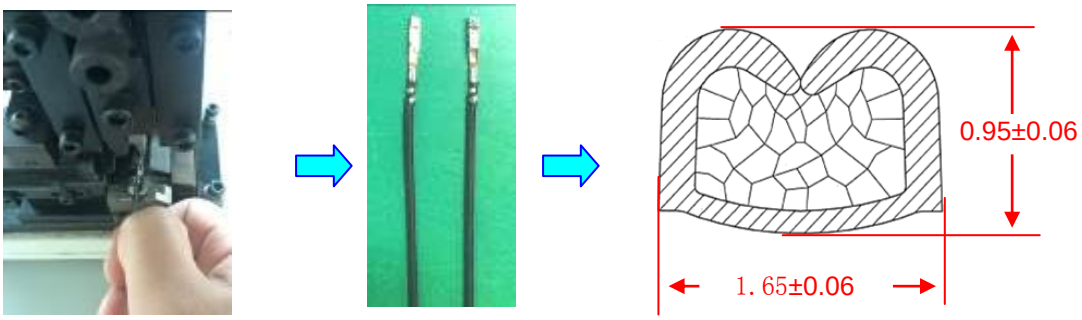


4.3、Strip the insulation layer according to the dimensions below.

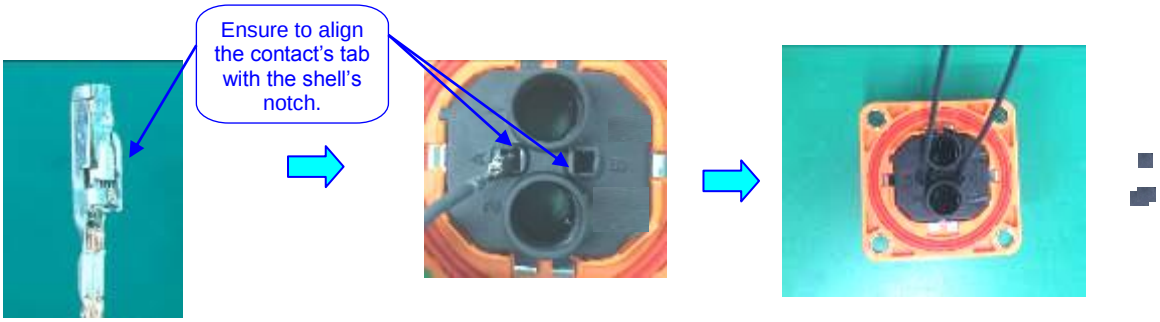
4.4、 Crimp the contact. The pulling force is not less than the value in the table below. The dimensions after crimping are as follows.

Cable size	Dimension (A) mm	Dimension (B) mm	Retention force (N)
6.0 mm²	3.8±0.10	5.80±0.10	⩾450
10.0 mm²	3.95±0.10	5.80±0.10	⩾500
16.0 mm²	5.2±0.10	6.40±0.10	⩾1500

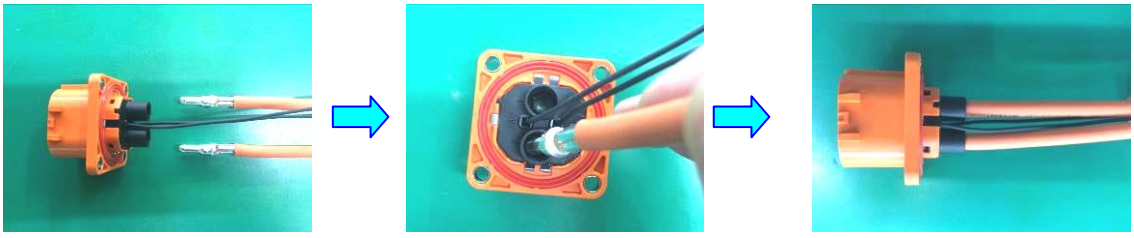
4.5、 Crimp the signal contact, after crimping, the retention force≥58N，crimping shape and dimensions as shown(FYI).



4. 6、Insert the signal cable into the small hole in the center of the connector. Push it until the contact pops open. Gently pull on the cable to ensure the contact is in place.



4.7、Put the male contact's cable into the housing as shown below.



5、Test

5.1、100% withstand voltage and insulation test.
AC3000V, 10S, leakage current ≤ 5mA. DC 500V, 10S, insulation resistance ≥ 100MΩ

5.2、100% conduction test.