1. Scope of application:

This specification document describes the cable assembly process for the PQ50W series plug connector.

2. Applicable connector:

		Product name	Product c	odo	Po	marks				
	Dlug connector	PQ50W-50-PCA			INC.	IIIaiks				
	Plug connector			CL236-2133-0-00 CL236-2104-0-00		Applicable for outer				
	Clamp connector	i) PQW-CM(15.0)	GL230-21	04-0-00		Applicable for outer				
	connector		01.000.00			meter ϕ 15.0				
		ii)PQW-CM(17.5)	CL236-20	19-6-00		plicable for ou				
					diameter ϕ 17.5 mm					
	Housing	PQ50WS-25P-UNI	21-8-00							
	PQ50S2	Refer to "Crimping contact list" on the next page.								
	crimping contact									
		and satisfactory ass					tool			
		ed. Regarding the ha	•	hand too	l, plea	ase refer to				
	the correspo	nding instruction mai	nual.							
	3. Applicable ca	able:								
1										
	Final diameter : 15.0 mm									
	Recommend	led cable : –								
	Final diameter	er: 17.5 mm								
	Recommend	led cable : DAIDEI	N Co., Ltd. H	RZEV-E	SLAL	AB(2464)				
						· · ·				
	4. Commercial	items:								
	The following	g commercial items a	re necessary f	o assem	hlv th	ne around con	necti	ion		
	-	be prepared in advan	•		iory ti	le greana con	11000			
		cessed head screw v		sher M3	×4					
			•		~~					
	 ring crimping contact R1.25-3 									
	COUNT DESCRIPTI	ON OF REVISIONS	DESIGNED		CHECKED			DATE		
3		E-00014667	KIM JAEHYEO	l I		KG. OKITA		20230913		
TITL	E			HRS	1					
	HIROSE ELECTRIC CO., LTD.									
PQ50W	PQ5OW plug connector assembly instruction manual				ROVED RI. TAKAYASU		U	20140709		
					IECKED NM. NISHIMATSU		SU	20140709		
					VED					
WRITTEN KG. OKITA								20140708		
							•			
TECHNICAL SPECIFICATION					AD-F	00-1100		1/8		

FORM	HC0011-9-1	

Crimping contact list

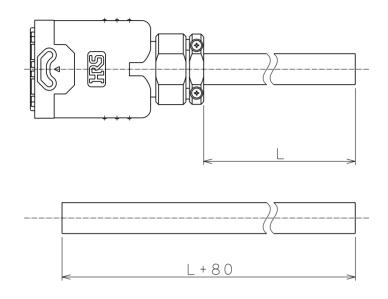
Crimpin	ng contact list				$\sqrt{3}$	$\sqrt{3}$	$\sqrt{3}$
Туре	Packing form	Component		Required quantity	Part No.	CL No.	Remarks
Male	Reel packaging (6000 pcs/reel)	Male crimp contact (standard contact)	1	Required number *	PQ50S2-1618PCFA	CL236-0032-0	Applicable wire : UL1007 AWG#16~18
			2	Required number *	PQ50S2-1822PCFA	CL236-0035-0	Applicable wire : UL1007 AWG#18~22
			3	Required number *	PQ50S2-2428PCFA	CL236-0038-0	Applicable wire : UL1007 AWG#24~28
		Male crimp contact (sequence contact)	4	Required number *	PQ50SA2-1618PCFA	CL236-0033-0	Applicable wire : UL1007 AWG#16~18
			5	Required number *	PQ50SA2-1822PCFA	CL236-0034-0	Applicable wire : UL1007 AWG#18~22
side (P Side)			6	Required number *	PQ50SA2-2428PCFA	CL236-0037-0	Applicable wire : UL1007 AWG#24~28
	Plastic bag packaging (100 pcs/bag)	Male crimp contact (standard contact)	7	Required number *	PQ50S2-1822PCA	CL236-0046-0	Applicable wire : UL1007 AWG#18~22
			8	Required number *	PQ50S2-2428PCA	CL236-0047-0	Applicable wire : UL1007 AWG#24~28
		Male crimp contact (sequence contact)	9	Required number *	PQ50SA2-1822PCA	CL236-0048-0	Applicable wire : UL1007 AWG#18~22
			10	Required number *	PQ50SA2-2428PCA	CL236-0049-0	Applicable wire : UL1007 AWG#24~28
Туре	Packing form	Component		Required quantity	Part No.	CL No.	Remarks
	Reel packaging (6000 pcs/reel)	Female crimp contact (standard contact)	1	Required number *	PQ50S2-1618SCFA	CL236-0042-0	Applicable wire : UL1007 AWG#16~18
Female side (S Side)			2	Required number *	PQ50S2-1822SCFA	CL236-0036-0	Applicable wire : UL1007 AWG#18~22
			3	Required number *	PQ50S2-2428SCFA	CL236-0039-0	Applicable wire : UL1007 AWG#24~28
	Plastic bag packaging (100 pcs/bag)	Female crimp contact (standard contact)	4	Required number *	PQ50S2-1822SCA	CL236-0050-0	Applicable wire : UL1007 AWG#18~22
			5	Required number *	PQ50S2-2428SCA	CL236-0051-0	Applicable wire : UL1007 AWG#24~28

*Prepare as to your application



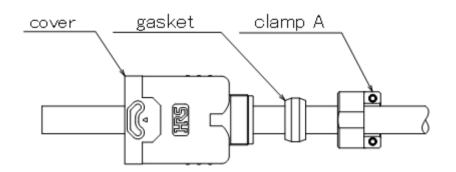
- 5. Assemble procedure:
- 5-1. Cutting the cable:

Please cut the cable at the required length L plus an additional length of 80 mm for assembly $purpose_{\circ}$

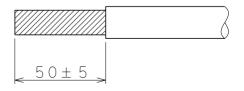


5-2. Handling of the cable contact:

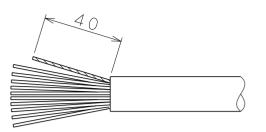
Assembly the following parts in the right order starting by the clamp A, resuming with the gasket, and lastly by putting on the cover.



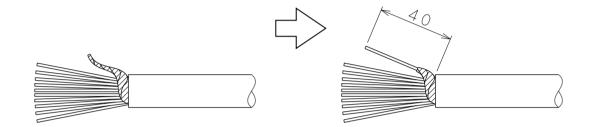
Remove 50 ± 5 mm of the cable jacket at the cable end.



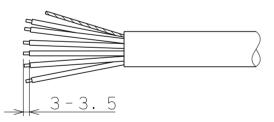
Cut off the cable shield foil, STP shield foil, the STP drain line and the filling material such as threads to the same point as the cable jacket before. Trim the exposed drain wire to 40 mm length.



If the drain wire differs from the figure above, please braid the separated wires together and solder them like in the following figure.

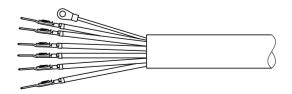


Strip the insulation of the inner wires to a length between 3 and 3.5 mm.

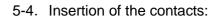


3 5-3. Contact crimping:

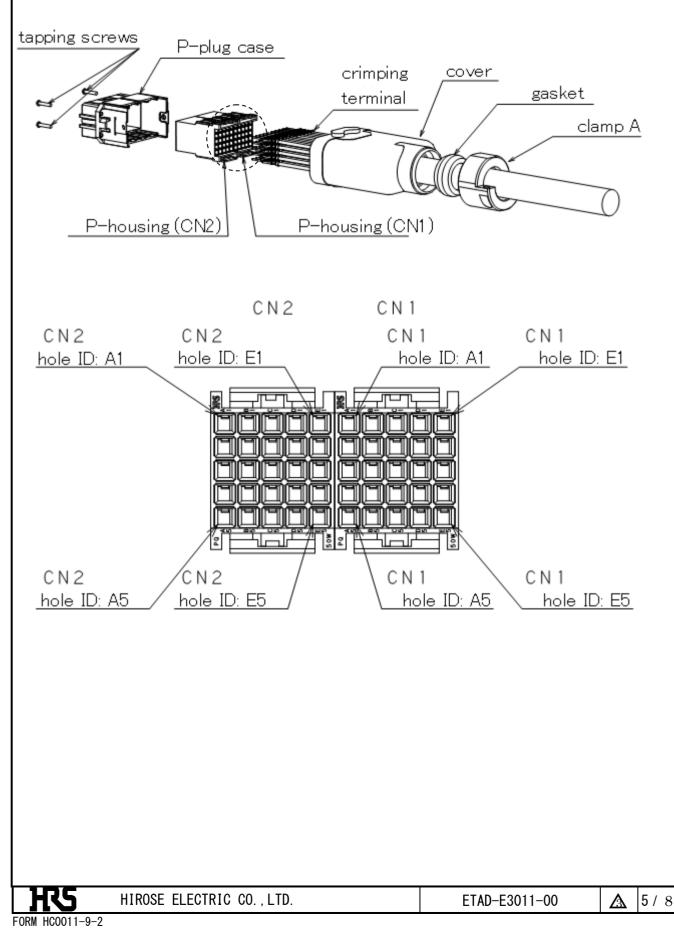
Use only an applicator or a corresponding hand tool for the crimping of the PQ50S2 contact. Please refer to the crimp quality standards shown in the ATAD-E3237 and ATAD-E3238. Assembly the already prepared commercial ring contact with the remaining drain wire by using a commercial crimping tool.



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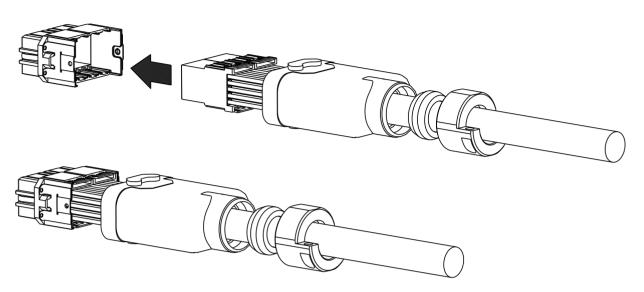


Insert the just crimped wires into the P-housing. During the insertion process a Click feeling should be confirmed. The identification numbers of the insertion holes of the P-housing case is shown below.



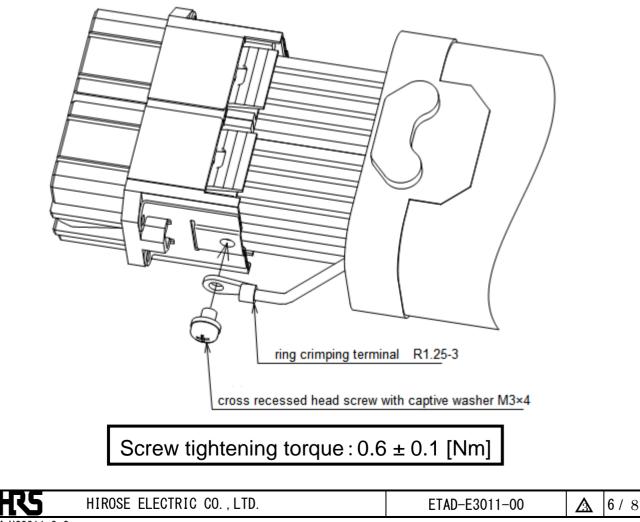
5-5. Insertion of the P-housing:

Insert the P-housing into the P-plug case. Be sure to perceive a click feeling by doing so. By inserting it properly you will realize that the upper and bottom plastic spring of the P-housing will engage into the P-Plug case.



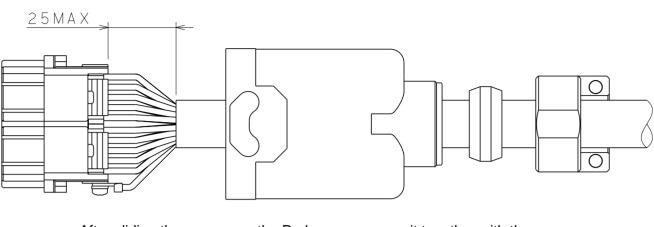
5-6. Fastening the drain wire:

Please tighten the drain wire to one of the grounding plates of the P-plug case. Feel free to choose either the left or the right grounding plate.

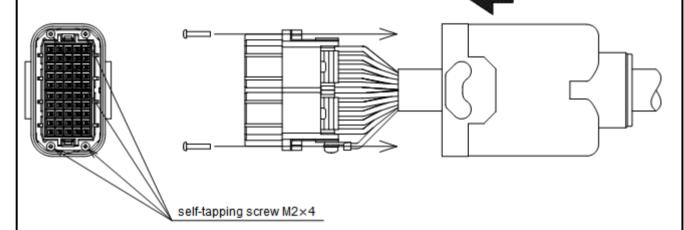


5-7. Assembly of the cover:

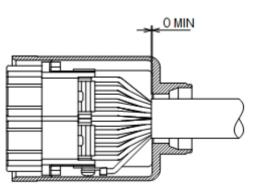
Please adjust the tension of the cables so that the length between the P-plug case and the end of the striped cable jacket is 25 mm MAX.



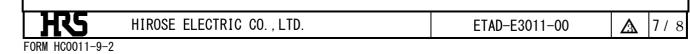
After sliding the cover over the P-plug case, screw it together with the self-tapping screws at the 4 corresponding places.



Screw tightening torque : 0.2 ± 0.1 [Nm]

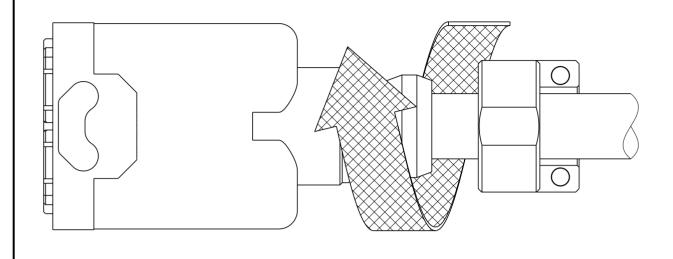


Confirm that the cable jacket has been inserted within the interior of the cover as shown in the figure above. If that is not the case, continue pushing the cable until the jacket has reached it. At the same time, please be sure to not overstrain the connector and the contacts with excessive force.



5-8. Tightening clamp A:

After pushing the gasket till it reaches the cover, screw the clamp A over the gasket.



Screw tightening torque : 9 ± 0.5 [Nm]

5-9. Tightening clamp B:

To finish the assembly, mount clamp B onto clamp A.

