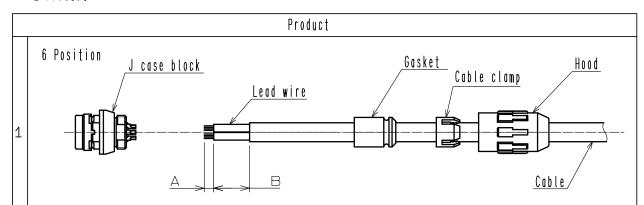
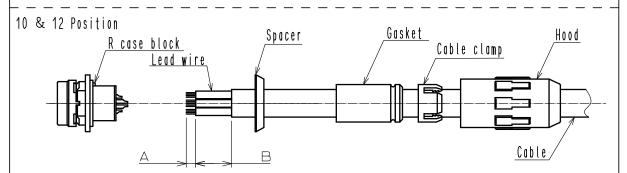
1. Scope
This specification document describes the harness procedure of HR30 jack connector.

2. Product



Thread the cable through the hood, cable clamp, and gasket in that order as shown in the above figure. Strip the lead wire based on the dimensions shown in table 1.

Note: When processing the end, be careful not to damage the lead wire coating or core wire.



Thread the cable through the hood, cable clamp, and gasket in that order as shown in the above figure. Strip the lead wire based on the dimensions shown in table 1.

Note: When processing the end, be careful not to damage the lead wire coating or core wire.

	Table 1.	
	А	В
6 position solder type		5.5mm Max
12 position solder type	2_ _{0.5} mm	10mm Max
10 & 12 position crimp type		15~20mm

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED		CHECKED		DATE
\triangle							
名称 TITLE HR30 Jack Connector Harness Assembly Instructions		FRS ヒロセ電機株式会社 HIROSE ELECTRIC COLTD.					
		APPROVED	TP. KOMATSU		20210323		
		CHECKED	HY. KOBAYASHI		20210323		
		CHARGED	HT. ZENBA		20210323		
		WRITTEN	KR. SUZUKI		20210323		
	技術	指定書 TECHNICAL SPE	CIFICATION	ETAD-C	0476-00	<u></u>	1 6

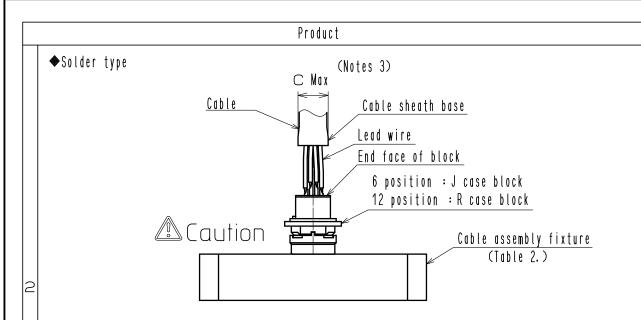


Table 2

TUBEC E.			
Product name		Cable assembly fixture	
6 position solder type	HR30-6J-6P(31) HR30-6JA-6P(71)	HR30-6R-6P-T01	
12 position solder type		HR30-7J-12PC-T01	
112 position solder type	HR30-8J-12S(71)	HR30-8J-12SC-T01	

Table 3.

		С
6 position	solder type	φ 5
12 position	solder type	φ7

After attaching the J case block or R case block to the cable assembly fixture, perform soldering for 3 to 4 seconds with the soldering iron tip at a temperature of 350 \pm 10°C.

- Notes 1 Solder should be done without cold solder joint or air bubbles in the solder. 2 The end faces of the J case block and R case block are waterproof.
 - Please note that if the waterproof surface is damaged by a soldering iron during soldering, the waterproof property may be impaired.
 - 3 When soldering, make sure that the based of the outer jacket of the sheath is within the dimensions shown in Table 3.

Please note that if the gasket is tightened when inflated. friction with the hood will increase and the hood will not be tightened to the proper position. which may impair waterproofing performance.

Caution

Make sure to secure the cable assembly fixture so that it will not move even due to the torque for assembling the connector. If not properly secured, the connector may tilt during assembly, resulting in damage to the connector or inability to tighten with the specified torque.

Caution

Please strictly observe the soldering conditions. Otherwise, the insulator may melt or the contacts may come off.

Product ◆Solder type Notes 4 The heating range when processing the shrink tube at the connection portion after soldering is shown in the figure. Please note that the following may occur if the product is heated beyond the heating range. ①The C ring is deformed and does not lock when mated. ②The product melts. In order to prevent deformation of the C ring as described in ①, please heat after mating the compatible plug and receptacle. 6 position : J case block Cring 12 position : R case block Shrink tube 2 Heating range Assembly phase diagram 6 position : J case block Compatible plug 12 position : R case block Heating range HS.

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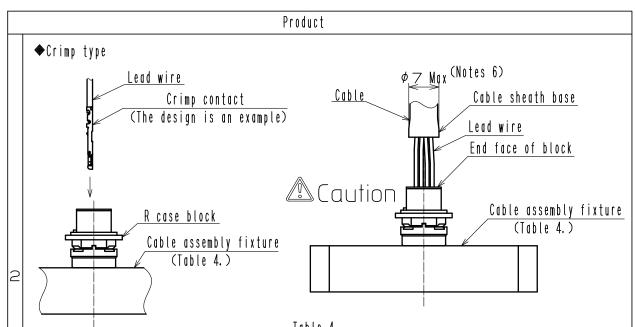


Table 4.

	Product name	Cable assembly fixture
10 position crimp type	HR30-7J-10PC(71)	HR30-7J-10PC-T01
12 position crimp type	HR30-7J-12PC(71)	HR30-7J-12PC-T01
	HR30-8J-12SC(71)	HR30-8J-12SC-T01

Table 5.

Wire name	Core wire side	Cover side
AWG SIZE	Crimp height(mm)	Crimp height(mm)
UL1571 Stranded wire	0.52 ~ 0.58	0.85 ~ 1.00
AWG 26		
UL1571 Stranded wire	0.48 ~ 0.54	0.85 ~ 1.00
AWG 28		
UL1571 Stranded wire	0.46 ~ 0.52	0.80 ~ 0.95
AWG 30		

After crimping with a tool that applies to compatible terminal of the electric wire, insert the crimp terminal into the terminal hole of the R case block.

Notes 1 Please refer to Table 5. for C / H.

- 2 After inserting the crimp terminal, lightly pull the lead wire to check that the crimp terminal is securely connected to the terminal hole of the receptacle.
- 3 The orientation of the terminals is an example.
- 4 If the cable is soft, it may be difficult to insert the terminals. In this case, insert the terminal by holding the cable near the terminals.
- 5 The end face of the R case block is waterproof.
 Please note that if the waterproof surface is damaged during cable assembly.
 the waterproof property may be impaired.
- 6 When crimping, make sure that base of the outer jacket of the sheath is ϕ 7 or less. Please note that if the gasket is tightened when inflated, friction with the hood will increase and the hood will not be tightened to the proper position, which may impair waterproofing performance.
- Make sure to secure the cable assembly fixture so that it will not move even due to the torque for assembling the connector. If not properly secured, the connector may tilt during assembly, resulting in damage to the connector or inability to tighten with the specified torque.
- When inserting the terminals make sure not to deform them.

 Deformed terminals may cause poor contact or disconnection.

HS

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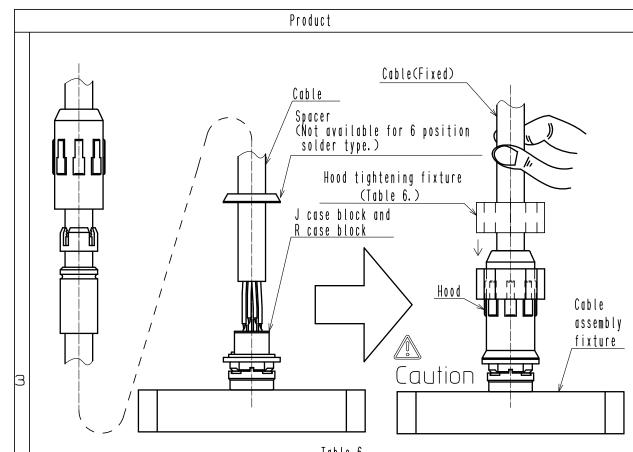


Table 6.

	Hood tightening fixture	HEX	Tightening torque
6 Position	HR30-6P-T02	16mm	0.5N·m
10 & 12 Position	HR30-8P-T02	18mm	0.014 111

6 Position :Assemble the gasket, cable clamp, and hood in this order to the connected J case block.

10 & 12 Position :Align the spacer with the connected R case block and install it.

After that, assemble the gasket, cable clamp, and hood in this order.

Maintain the positional relationship shown between the cable sheath end face and gasket recess as shown in Fig. D and assemble in the order of cable clamp followed by hood. If the end face of the cable sheath is above the gasket recess, the waterproof performance will not be satisfied. (Fig. E)

Note Apply a lubricant (dry) to the outer periphery of the gasket to reduce friction during tightening. Tighten the hood with the specified tightening torque using the hood tightening fixture shown in Table 6.

To prevent loosening, please apply Loctite 263 and Lock Primer 7649 manufactured by Henkel Japan Ltd.

Also, when screwing in the cord tube, secure the cable by hand so it does not rotate together with the cord tube and apply stress to the soldered area.

Caution

Make sure to secure the cable assembly fixture so that it will not move even due to the torque for assembling the connector. If not properly secured, the connector may tilt during assembly, resulting in damage to the connector or inability to tighten with the specified torque.

HS.

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