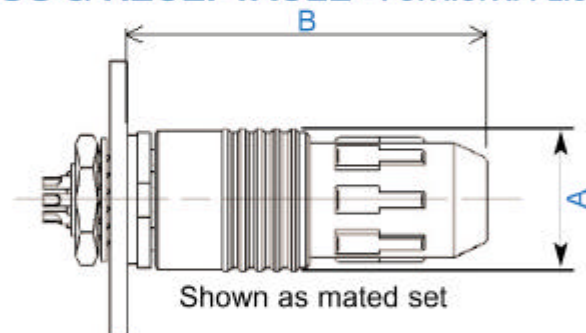


FEATURES

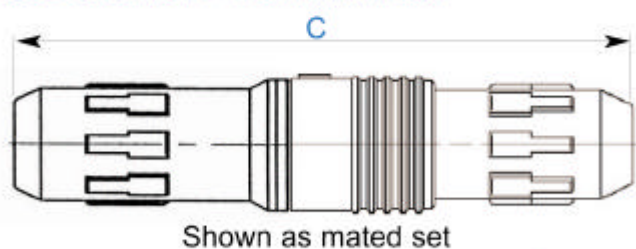
- Push pull latching.
- [Water resistant to IP67](#), for 0.5 hour at 1m depth when mated.
- Solder bucket termination for 3 & 6 positions connectors.
- Crimp contacts for 10 & 12 positions.
- Simple screw together assembly requires no special tooling.
- Plastic shells and stainless steel springs make HR30 totally resistant to corrosion.
- Designed to withstand 1000 mating cycles.
- Five key polarisation.
- Gold contacts.
- Connectors have white arrows for easy alignment.
- Current rating 2 amps for 6, 10 & 12 position, 5 amps for 3 position.
- Optional dust caps.



PLUG & RECEPTACLE - FOR I.O. APPLICATIONS

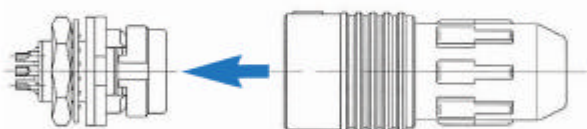


PLUG & JACK - FOR INLINE USE



	A	B	C
3 Position	12.6	32.3	-
6 Position	12.6	32.3	52.8
10 & 12 Position	15.5	42.0	70.3

Push-pull lock mechanism with easy operation.



Easy mating white indexing mark



TYPICAL APPLICATIONS

Portable electronics for outdoor use, marine equipment, medical equipment, test equipment, radio communications.

PRODUCT SPECIFICATIONS

Rated Current 2A (5A for 3 position)	Operating Temperature Range -25°C ~ +85°C
Rated Voltage AC 100V / DC 140V	Storage Temperature Range -25°C ~ +85°C

1. Contact Resistance	Measured at DC 1A	15mΩ max
2. Insulation Resistance	Measured at DC 100V	1000MΩ max
3. Withstand Voltage	AC 300V applied for 1 minute	No short or insulation breakdown
4. Resistance to Vibration	10~55~10Hz/cycle, either amplitude 0.75mm in 3 directions for 5 minute/cycle, 10 cycles, respectively	Instantaneous disconnection, less than 10μs
5. Mating Cycles	1000 cycles	Contact resistance : 30mΩ max
6. Thermal Cycle	-55°C : 30 minutes ▶ room temperature 10~15 minutes ▶ +85°C : 30 minutes ▶ room temperature 10~15 minutes; 5 cycles	Insulation resistance : 100MΩ min
7. Resistance to Moisture	Temperature 40°C, humidity 90~95% for 96 hours	Insulation resistance : 10MΩ min (at high moisture) 100MΩ min (dry)
8. Water Resistant	Submerged in 1m water depth for 0.5 hours when mated.	No water ingress

MATERIAL

	Item	Material	Treatment	Remark
Plug	Housing & Insulation	PPS Resin (black)		UL94V-0
		PBT Resin (black)		UL94V-0
		Polyacetal Resin (natural)		-
	Seal	Synthetic Rubber (red & black)		-
	Female Terminal	Phosphor Bronze	Gold Plating	-
	Spring	Stainless Steel		-
Receptacle	Insulation	PPS Resin (black)		UL94V-0
	Seal	Synthetic Rubber (black)		-
	Female Terminal	Brass	Gold Plating	-
	Hexagonal Nut	Steel	Chromate Treatment	-
	Washer	Phosphor Bronze	Nickel Plating	-

PART NUMBER CONFIGURATION

Using this configuration, please determine the specific product.

HR30 - 7P - 10SC
①
② ③
④ ⑤ ⑥

① Series name : HR30 series	④ Number of contacts : 3, 6, 10, 12 contacts
② Shell size : Plug matng area diameter mm	⑤ Terminal type : S - Female terminal : P - Male terminal
③ Connector type : P - Plug : R - Receptacle : J - Jack	⑥ Crimp housing : Order contacts separately

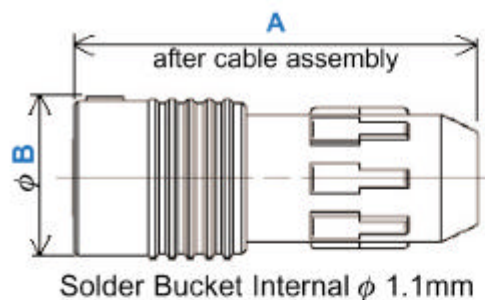
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PLUG

HR30-6P-6S

CL No. 130-0010-4



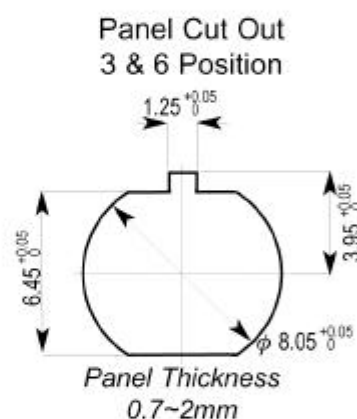
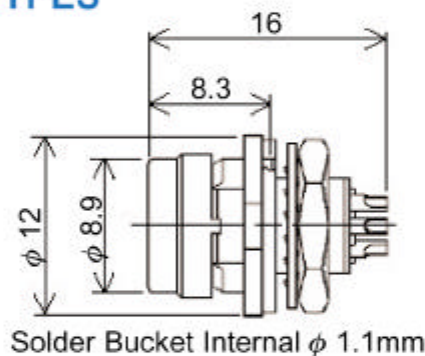
CL No	Part No	No of Contacts	A	B	Cable Dia	Applicable Contact
130-0004-1	HR30-6P-3S	3	29.8	12.6	4.2~5.0	Solder bucket
130-0009-5	HR30-6P-6P	6	29.8	12.6	4.2~5.0	Solder bucket
130-0010-4	HR30-6P-6S	6	29.8	12.6	4.2~5.0	Solder bucket
130-0013-2	HR30-7P-10SC	10	39.8	15.5	6.2~7.0	HR30-SC-211
130-0014-5	HR30-7P-12SC	12	39.8	15.5	6.2~7.0	HR30-SC-212
130-0015-8	HR30-8P-12PC	12	39.8	15.5	6.2~7.0	HR30-PC-211

Solder bucket will accept 26 AWG max.

RECEPTACLE SOLDER TYPES

HR30-6R-6P

CL No. 130-1009-0



CL No	Part No	No of Contacts	Applicable Contact
130-1003-4	HR30-6R-3P	3	Solder bucket
130-1008-8	HR30-6R-6S	6	Solder bucket
130-1009-0	HR30-6R-6P	6	Solder bucket

Solder bucket will accept 26 AWG max.

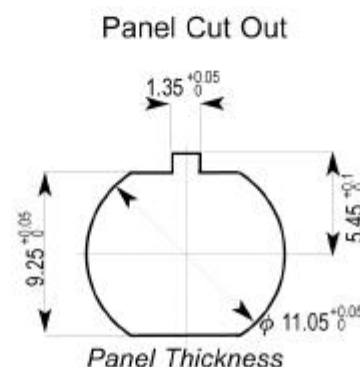
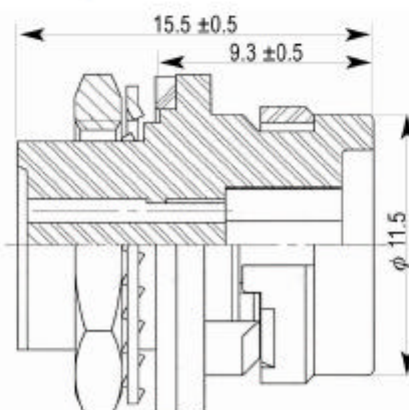
RECEPTACLE CRIMP

HR30-7R-10PC

CL No. 130-1012-5



Shown with crimp contacts fitted



CL No	Part No	No of Contacts	Applicable Contact
130-1012-5	HR30-7R-10PC	10	HR30-PC-211
130-1014-0	HR30-8R-12SC	12	HR30-SC-211
130-1013-8	HR30-7P-12PC	12	HR30-PC-211

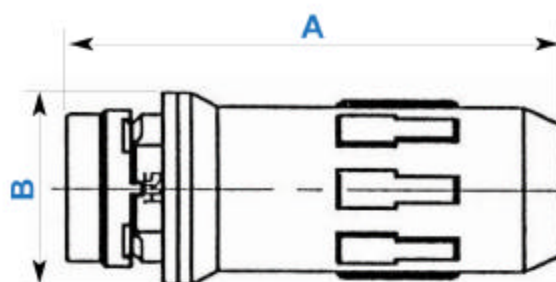
JACKS SOLDER & CRIMP TYPES

HR30-7J-10PC

CL No. 130-2015-9



Shown with crimp contacts fitted



Recommended Torque 0.8Nm for 10 & 12 position
0.5Nm for 6 position

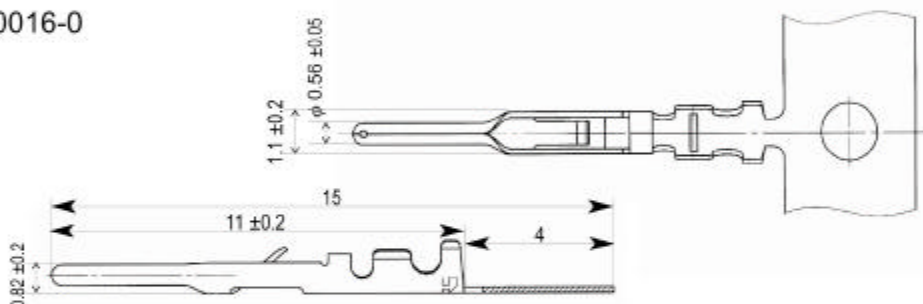
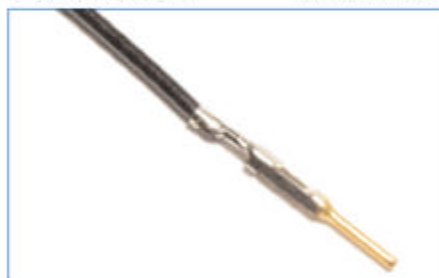
CL No	Part No	No of Contacts	A	B	Cable Dia	Applicable Contact	Mating Connector
130-2009-6	HR30-6J-6P	6	28.8	12.0	6.2 - 7.0mm	Solder Bucket	HR30-6P-6S
130-2015-9	HR30-7J-10PC	10	38.0	15.3	6.2 - 7.0mm	HR30-PC-211	HR30-7P-10SC
130-2016-1	HR30-8J-12SC	12	38.0	15.3	6.2 - 7.0mm	HR30-SC-211	HR30-8P-12PC
130-2017-4	HR30-7J-12PC	12	38.0	15.3	6.2 - 7.0mm	HR30-PC-211	HR30-7P-12SC

Solder bucket will accept 26 AWG max.

CRIMP CONTACTS

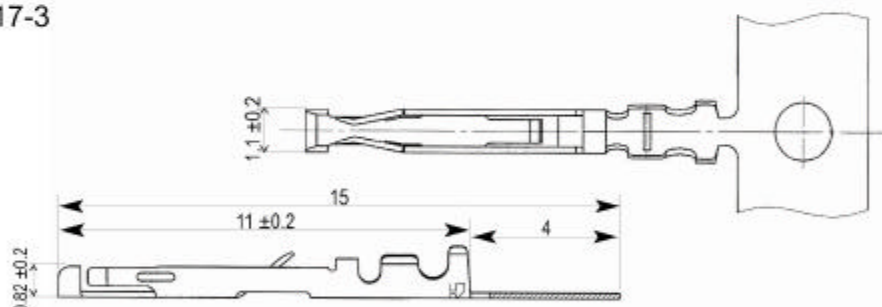
HR30-PC-211

CL No. 130-0016-0



HR30-SC-211

CL No. 130-0017-3



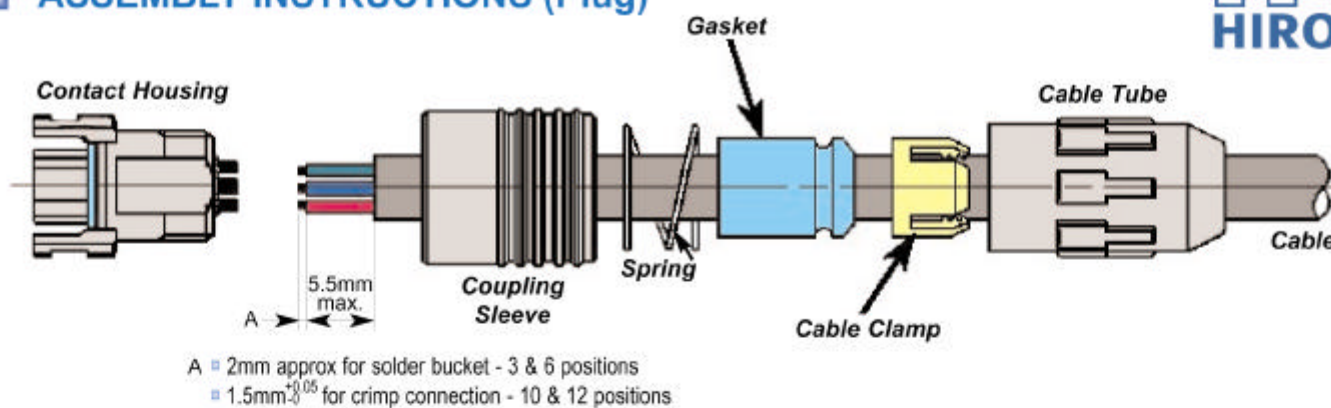
CL No	Part No	Wire Type	Qty
130-0017-3	HR30-SC-211	26~30 AWG	10,000 Reel
130-0016-0	HR30-PC-211	26~30 AWG	10,000 Reel
150-0229-6	HT102/HR30-1	Hand Crimp Tool	1

Notes

- Maximum insulation diameter 1.0mm.
- Recommended strip length 1.5mm (+0.5mm, -0).
- Hand crimp tool will terminate male and female contacts.
- For semi auto applicator, please contact the sales office.

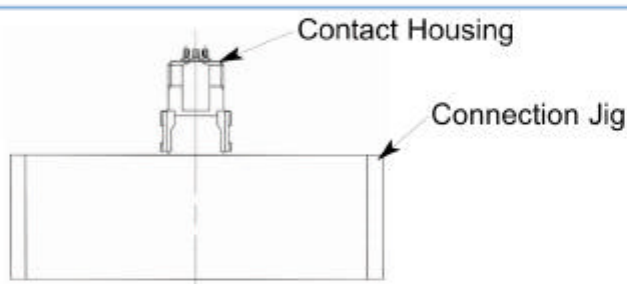
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ASSEMBLY INSTRUCTIONS (Plug)



Procedure

- 1) Thread the cable tube, cable clamp, gasket, spring and coupling sleeve onto the cable in the correct order. Prepare the cable as shown above.



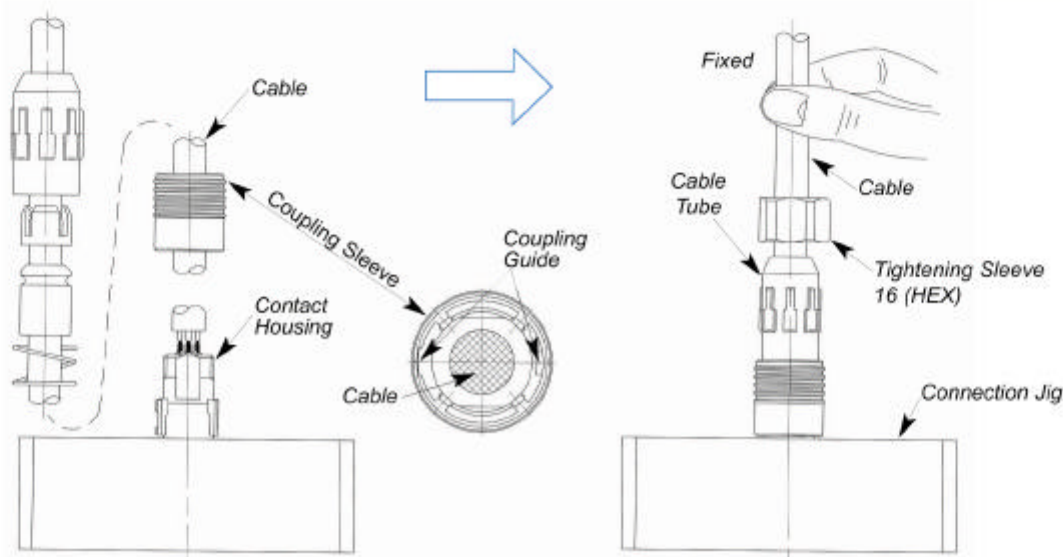
2) Solder Versions

Locate the contact housing onto the connection jig and solder the wires into position using a soldering iron temperature of $280^{\circ}\text{C} \pm 10^{\circ}\text{C}$ for 3 - 4 seconds. Note: The wire diameter should not exceed 0.7mm after tinning of wire.

Crimp Versions

Crimp the contact onto each wire using HT102/HR30-1 hand tool. Push the contact into the contact housing ensuring that each contact 'clicks' into place.

- 3) Align and fit coupling sleeve onto the contact housing, then slide the other components down the cable. Tighten the cable tube to 0.5Nm for 3 & 6 position, 0.8Nm for 10 & 12 positions, using the appropriate tightening sleeve.



DUST CAPS

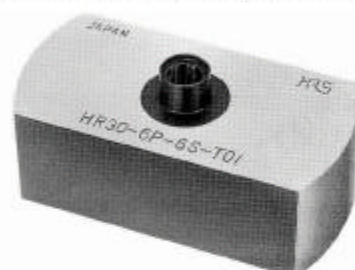


Part No	CL No	Applicable Connector
HR30-6R-C	130-3001-7	HR30-6R-3P HR30-6R-6P HR30-6J-6P HR30-6R-6S
HR30-6P-C	130-3000-7	HR30-6P-3S HR30-6P-6S HR30-6P-6P
HR30-7R-C	130-3002-2	HR30-7R-10PC HR30-7J-10PC HR30-7R-12PC HR30-7J-12PC
HR30-7P-C	130-3004-8	HR30-7P-10SC HR30-7P-12SC
HR30-8P-C	130-3003-5	HR30-8P-12PC

APPLICABLE TOOLING

Notes

The connection jig is convenient when having to assemble or disassemble the plugs. The solder connection jig is used for the receptacle when making a solder connection.



HR30-6P-6S-T01



HR30-6R-6P-T01



Tightening Sleeve
HR30-6P-T02

TOOLING PART NUMBERS

Description	Part No	CL No	Applicable Connector
Connection Jig	HR30-6P-3S-T01	150-0220-1	HR30-6P-3S
Connection Jig	HR30-6R-3P-T01	150-0225-5	HR30-6R-3P
Connection Jig	HR30-6P-6S-T01	150-0214-9	HR30-6P-6S
Connection Jig	HR30-6P-6P-T01	150-0221-4	HR30-6P-6P
Connection Jig	HR30-6R-6S-T01	150-0227-7	HR30-6R-6S
Connection Jig	HR30-6R-6P-T01	150-0218-0	HR30-6R-6P HR30-6J-6P
Connection Jig	HR30-7P-10SC-T01	150-0228-3	HR30-7P-10SC
Connection Jig	HR30-7J-10PC-T02	150-0231-8	HR30-7J-10PC
Connection Jig	HR30-8P-12PC-T01	150-0227-0	HR30-8P-12PC
Connection Jig	HR30-7P-12SC-T01	150-0223-0	HR30-7P-12SC
Connection Jig	HR30-8J-12SC-T01	150-0226-8	HR30-8J-SC
Connection Jig	HR30-7J-12PC-T01	150-0230-5	HR30-7J-12PC
Contact Extraction Tool	HR30-TP	150-0219-2	HR30-SC-211 HR30-PC-211
Tightening Sleeve	HR30-8P-T02	150-0224-2	HR30-8P or J HR30-7P or J
Tightening Sleeve	HR30-6P-T02	150-0216-4	HR30-6P-*
Hand Crimp Tool	HT102/HR30-1	150-0229-6	HR30-SC-211 HR30-PC-211

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