

Product Specifications

Ratings	Rated current	1A	Operating temperature range	-25°C to +85°C
	Rated voltage	30V AC, 42V DC	Storage temperature range	-10°C to +60°C

Items	Specifications	Conditions
1.Contact resistance	30mΩ min.	Measured at DC 1A
2.Insulation resistance	1,000MΩ min.	Measured at DC 100V
3.Withstanding Voltage	No flashover or dielectric breakdown.	AC 100V for one minute
4.Vibration resistance	No electrical discontinuity for 10μs or greater.	10 to 55 Hz/cycle, amplitude : 0.75mm, 3 axis directions, 2 hours each direction
5.Shock resistance	No electrical discontinuity for 10μs or greater.	Acceleration : 490ms ² , duration : 11ms, 3 axis directions, 3 cycles each direction.
6.Mating Cycles	Contact resistance : 50mΩ max.	1,000 times
7.Temperature cycle	Insulation resistance : 1,000MΩ min.	-55°C : 30 minutes → Normal temperature : 10 to 15 minutes →85°C : 30 minutes → Normal temperature : 10 to 15minutes, left for 5 cycles
8.Moisture resistance	Insulation resistance : 5MΩ min. (at high humidity) 50MΩ min (when dry)	Temperature : 40°C, relative humidity : 90 to 95%, left for 96 hours

Material

Item	Material	Finish	Remarks
Plug/jack	Plated shell	Zinc alloy	Nickel plated
	Insulator	PPS resin	UL94V-0
	Gasket, boot	Ethylene-propylene rubber	
	Contact	Phosphor bronze	Gold plated
Receptacle	Plated shell	Zinc ally	Nickel plated
	Insulator	PPS resin	UL94V-0
	Contact	Phosphor bronze	Gold plated
	Gasket	Ethylene-propylene rubber	

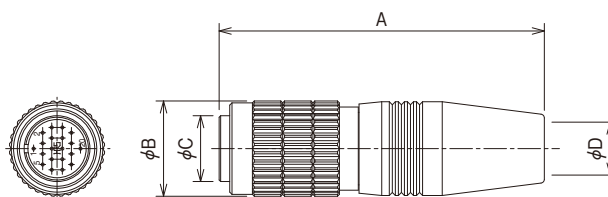
Product Number Structure

HR25 - 9 T P - 20 P C ()**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Model name : HR25 Series
② Shell size : The shell size is the outer diameter of the mating end of the plug.
③ Locking mechanism T : Screw-lock
④ Connector type P : Plug R : Receptacle J : Jack
⑤ Number of contacts
⑥ Contact type: S : Female contact P : Male contact
⑦ Contact termination method: None : Solder termination C : Crimp termination A : PCB dip termination
⑧ Other specifications: A two-digit number is added to indicate other specifications than ① to ⑦ shown above.

■ Plug



● Solder type

Unit: mm

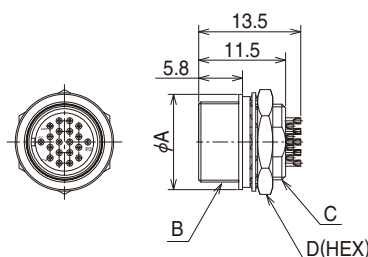
Part No.	HRS No.	No. of contacts	A	φB	φC	φD	Weight
HR25-7TP-4P(72)	125-0001-8 72	4	35	10.5	6.7	5	8g
HR25-7TP-4S(72)	125-0002-0 72						
HR25-7TP-6P(72)	125-0003-3 72	6					
HR25-7TP-6S(72)	125-0004-6 72						
HR25-7TP-8P(72)	125-0005-9 72	8	43	12.5	8.7	7	13g
HR25-7TP-8S(72)	125-0006-1 72						
HR25-9TP-12P(72)	125-0101-2 72	12					
HR25-9TP-12S(72)	125-0102-5 72						
HR25-9TP-16P(74)	125-0103-8 74	16	43	12.5	8.7	7	13g
HR25-9TP-16S(73)	125-0104-0 73						
HR25-9TP-20P(72)	125-0105-3 72	20	43	12.5	8.7	7	13g
HR25-9TP-20S(73)	125-0106-6 73						

● Crimp type

Unit: mm

Part No.	HRS No.	No. of contacts	A	φB	φC	φD	Weight
HR25-9TP-12PC(72)	125-0401-6 72	12	43	12.5	8.7	7	12g
HR25-9TP-12SC(72)	125-0402-9 72						
HR25-9TP-16PC(72)	125-0403-1 72	16					
HR25-9TP-16SC(72)	125-0404-4 72						
HR25-9TP-20PC(72)	125-0405-7 72	20	43	12.5	8.7	7	12g
HR25-9TP-20SC(72)	125-0406-0 72						

■ Receptacle



● Solder type

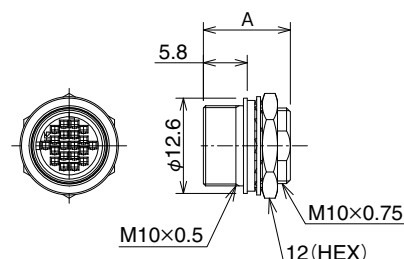
Unit: mm

Part No.	HRS No.	No. of contacts	φA	B	C	D	Weight
HR25-7TR-4S(73)	125-0007-4 73	4	10.6	M8.5×0.5	M8×0.5	10	3g
HR25-7TR-4P(73)	125-0008-7 73						
HR25-7TR-6S(73)	125-0009-0 73	6					
HR25-7TR-6P(73)	125-0010-9 73						
HR25-7TR-8S(73)	125-0011-1 73	8	12.6	M10.5×0.5	M10×0.75	12	4g
HR25-7TR-8P(73)	125-0012-4 73						
HR25-9TR-12S(71)	125-0107-9 71	12					
HR25-9TR-12P(71)	125-0108-1 71						
HR25-9TR-16S(71)	125-0109-4 71	16	12.6	M10.5×0.5	M10×0.75	12	4g
HR25-9TR-16P(71)	125-0110-3 71						
HR25-9TR-20S(71)	125-0111-6 71	20					
HR25-9TR-20P(71)	125-0112-9 71						

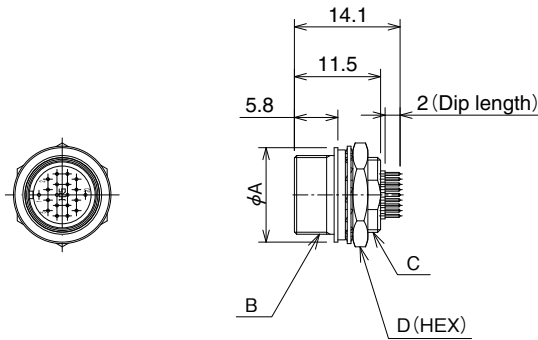
● Crimp type

Unit: mm

Part No.	HRS No.	No. of contacts	A	Weight
HR25-9TR-12SC(71)	125-0407-2 71	12	11.5	3g
HR25-9TR-12PC(71)	125-0408-5 71		13	
HR25-9TR-16SC(71)	125-0409-8 71	16	11.5	
HR25-9TR-16PC(71)	125-0410-7 71		13	
HR25-9TR-20SC(71)	125-0411-0 71	20	11.5	3g
HR25-9TR-20PC(71)	125-0412-2 71		13	



■Receptacle

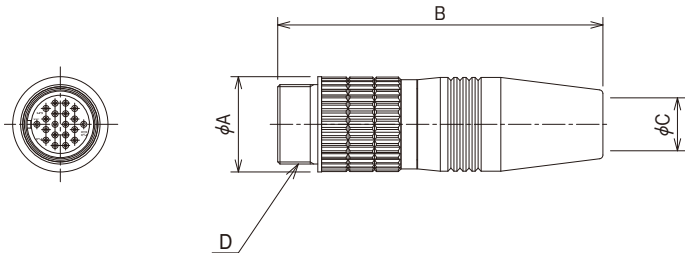


● Direct PCB mounting type

Unit: mm

Part No.	HRS No.	No. of contacts	ϕA	B	C	D	Weight
HR25-7TR-4SA(73)	125-0019-3 73	4	10.6	M8.5×0.5	M8×0.5	10	3g
HR25-7TR-4PA(73)	125-0020-2 73						
HR25-7TR-6SA(73)	125-0021-5 73	6					
HR25-7TR-6PA(73)	125-0022-8 73						
HR25-7TR-8SA(73)	125-0023-0 73	8					
HR25-7TR-8PA(73)	125-0024-3 73						
HR25-9TR-12SA(71)	125-0119-8 71	12	12.6	M10.5×0.5	M10×0.75	12	4g
HR25-9TR-12PA(71)	125-0120-7 71						
HR25-9TR-16SA(71)	125-0121-0 71	16					
HR25-9TR-16PA(71)	125-0122-2 71						
HR25-9TR-20SA(71)	125-0123-5 71	20					
HR25-9TR-20PA(71)	125-0124-8 71						

■Jack



● Solder type

Unit: mm

Part No.	HRS No.	No. of contacts	ϕA	B	ϕC	D	Weight
HR25-7TJ-4S(72)	125-0013-7 72	4	10.6	35	5	M8.5×0.5	8g
HR25-7TJ-4P(72)	125-0014-0 72						
HR25-7TJ-6S(72)	125-0015-2 72	6					
HR25-7TJ-6P(72)	125-0016-5 72						
HR25-7TJ-8S(72)	125-0017-8 72	8					
HR25-7TJ-8P(72)	125-0018-0 72						
HR25-9TJ-12S(72)	125-0113-1 72	12	12.6	43	7	M10.5×0.5	12g
HR25-9TJ-12P(72)	125-0114-4 72						
HR25-9TJ-16S(72)	125-0115-7 72	16					
HR25-9TJ-16P(72)	125-0116-0 72						
HR25-9TJ-20S(73)	125-0117-2 73	20					
HR25-9TJ-20P(72)	125-0118-5 72						

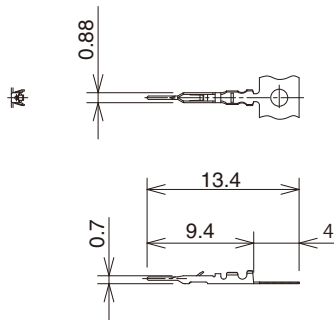
● Crimp type

Unit: mm

Part No.	HRS No.	No. of contacts	ϕA	B	ϕC	D	Weight
HR25-9TJ-12SC(72)	125-0413-5 72	12	12.6	43	7	M10.5×0.5	12g
HR25-9TJ-12PC(72)	125-0414-8 72						
HR25-9TJ-16SC(72)	125-0415-0 72	16					
HR25-9TJ-16PC(72)	125-0416-3 72						
HR25-9TJ-20SC(72)	125-0417-6 72	20					
HR25-9TJ-20PC(72)	125-0418-9 72						

■ Crimp-style contacts

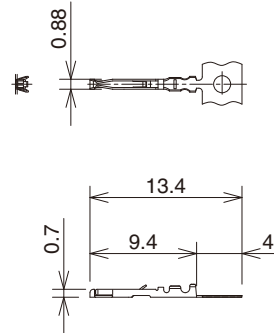
● Male Contacts



Type	Part No.	HRS No.	Suitable Wire
Loose contacts	HR25-PC-111	125-0419-1	AWG#30
Reel contacts	HR25-PC-211	125-0420-0	

Note: 1. Please use wire with a outer jacket diameter of 0.71mm or less.
2. Loose contacts come in packages of 100 pcs.
Reel contacts come in reels of 10,000 pcs.

● Female Contacts



Type	Part No.	HRS No.	Suitable Wire
Loose contacts	HR25-SC-111	125-0421-3	AWG#30
Reel contacts	HR25-SC-211	125-0422-6	

Note: 1. Please use wire with a outer jacket diameter of 0.71mm or less.
2. Loose contacts come in packages of 100 pcs.
Reel contacts come in reels of 10,000 pcs.

◆ Applicable Tools

Type	Item	Part No.	HRS No.	Applicable Contacts	Applicable Wire and Applicable Cable Diameter
Manual	Manual crimping tool	HR25-TA3032HC	150-0207-3	HR25-PC-111 HR25-SC-111	AWG#30
Auto	Auto crimping machine body	CM-105C	901-0001-0	—	—
	Applicator	AP105-HR25-1	901-2040-6	HR25-PC-211 HR25-SC-211	AWG#30
Cable crimping tool		HR10A-TC-02	150-0041-2	—	φ5、φ7
Extractor		HR25-TP	150-0091-0	—	—

◆ Assembly Tools

Use of the following assembly tools will simplify the process of disassembling and assembling the connectors for the cable assembly.

Part No.	HRS No.	Suitable Connectors and Uses
HR25-7TP-T01	150-0082-0	For HR25-7TP wiring and P shell unit tightening
HR25-9TP-T01	150-0080-4	For HR25-9TP wiring and P shell unit tightening
HR25-7TJ-T01	150-0089-9	For HR25-7TJ wiring and J shell unit tightening
HR25-9TJ-T01	150-0090-8	For HR25-9TJ wiring and J shell unit tightening

Cable Assembly Procedures

- The outline of wiring work for this diagram uses the soldered type as an example.

The jack side is also based on the work outline of the plug; however, the receptacle side does not require a special work outline and has been omitted because of this.

● Construction Diagram

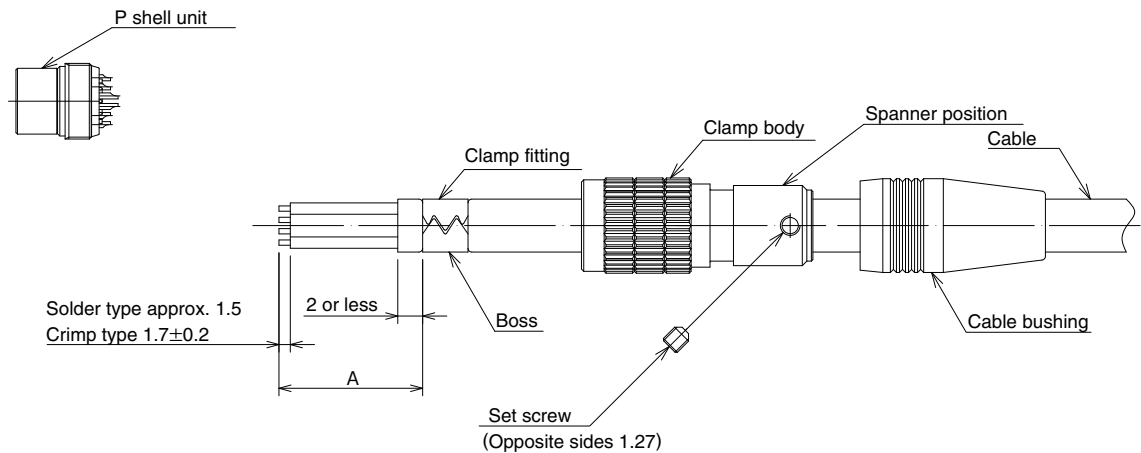


Table 1

Shell size	Soldered type A dimensions	Crimp type A dimensions	Spanner spacing	Tightening torque
7	10mm	—	8mm	1N · m
9	19mm	15mm	10mm	1N · m

○ Work Operation Procedures

1. With regard to cables, the wire to be used should have a conductor with a nominal cross-sectional area of 0.08 mm² (AWG#28) or less in a finished form suited to each size.
2. First pass the cable bushing and the plug body in order over the cable, then cut the end at the dimensions indicated in the above diagram.
3. Mount the P shell unit in the wiring jig and perform the solder wiring.
4. Use the cable crimping jig (HR10A-TC-02) to fix the clamp fitting to the cable.
5. After performing the wiring, tighten the plug body to the screw part of the P shell unit using the specified torque (in the above table).
6. Tighten the set screw so that the tip of the set screw falls into one of the two bosses of the clamp fitting. Note that the tightening torque of the set screw is from 0.3 to 0.4 Nm.
7. Put the cable bushing over the plug body and complete the work.

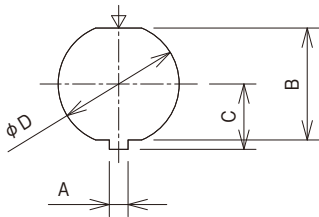
In addition, apply Loctite 263 which is manufactured by Henkel Japan Ltd., Tokyo to the screw part of the P shell unit in order to prevent looseness.

The aforementioned work procedure is for the soldered type. In the case of the crimp-style type, Steps 1 and 3 are changed as follows:

1. With regard to cables, the wire to be used should have a conductor with a nominal cross-sectional area of 0.05 mm² (AWG#30) in a finished form suited to each size.
3. Crimp a suitable crimp terminal to the conductor part of the cable, then fit into the housing of the P shell unit.

◆Mounting Hole Dimensions Diagram

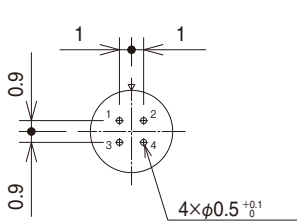
Mounting hole dimensions are indicated as viewed from the engagement side.



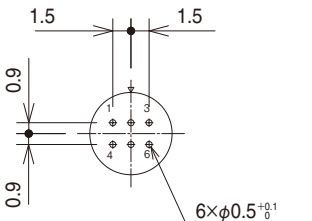
Lock System	Screw Lock Type	
Shell Size	Size 7	Size 9
Diagram Symbol		
A	1.55 ^{+0.05} ₀	1.55 ^{+0.05} ₀
B	7.25 ^{+0.03} _{-0.02}	9.25 ^{+0.03} _{-0.02}
C	4.4 ^{+0.1} ₀	5.4 ^{+0.1} ₀
D	8 ^{+0.05} ₀	10 ^{+0.05} ₀
Mounting Panel Thickness	0.7 ~ 2	0.7 ~ 2

Note: The ▽ mark indicates the engagement guide key position.

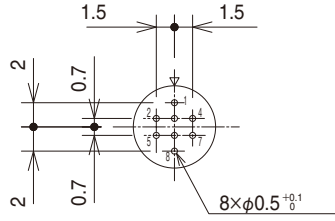
◆Receptacle Dip Post Configuration Dimensions



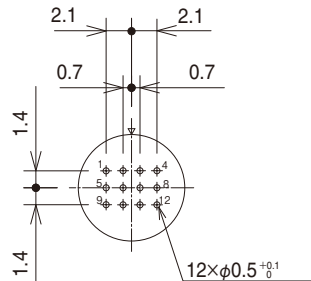
Size 7, 4 conductors



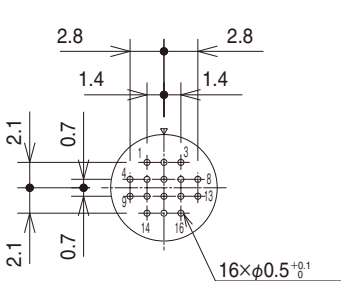
Size 7, 6 conductors



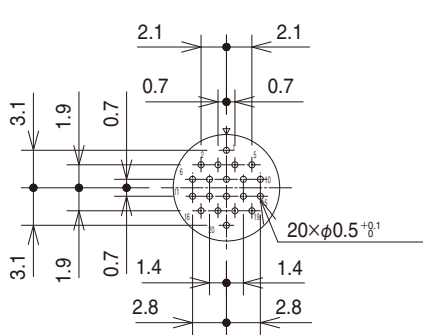
Size 7, 8 conductors



Size 9, 12 conductors



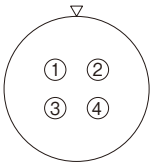
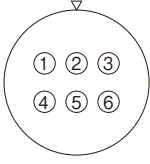
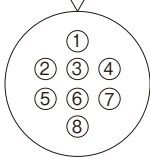
Size 9, 16 conductors

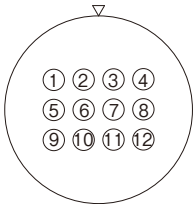
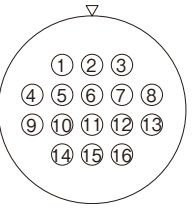
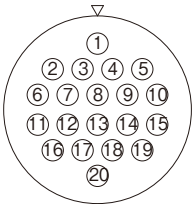


Size 9, 20 conductors

- Note:
1. The above diagrams are viewed from the engagement side of the socket insert (i.e., the wiring side of the pin insert).
 2. The ▽ mark of the above diagrams indicates the engagement guide key position.
 3. A tolerance of ±0.05 is recommended for dimensions without indication.

◆Contact Configuration and Basic Specifications

Shell size	Size 7		
Contact configuration			
Number of contacts	4	6	8
Withstand voltage	100V AC for 1 minute		
Current capacity	1A		
Insulation resistance	1,000MΩ or greater		
Contact resistance	30mΩ		
Solder pot inside diameter	0.5mm dia.		

Shell size	Size 9		
Contact configuration			
Number of contacts	12	16	20
Withstand voltage	100V AC for 1 minute		
Current capacity	1A		
Insulation resistance	1,000MΩ or greater		
Contact resistance	30mΩ		
Solder pot inside diameter	0.5mm dia.		

Note:

1. The above diagrams are viewed from the engagement side of the socket insert (i.e., the wiring side of the pin insert).
2. The ▽ mark of the above diagrams indicates the engagement guide key position.
3. The withstand voltage indicates the test voltage value. For regular use the voltage used should be less than 30 V AC or 42 V DC.
4. The current capacity of the crimp terminals indicates the value when using wire of AWG#30.
5. The insulation resistance indicates a value when measured at 100 V DC.

◆Precautions

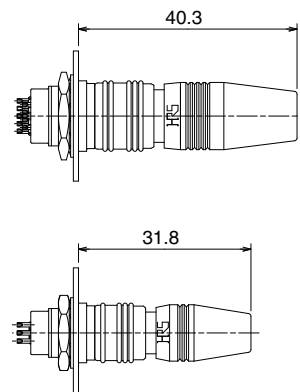
1. Switch off the power of the circuit before disconnecting or plugging-in the connectors.
2. Use connectors with socket contacts at the power side of the circuit.
3. Make sure that the coupling is in completely cocked position.
4. Cable clamping, cable rotation, and other forces may vary with the cable construction. Please make sure that your cable is suitable for use with these connectors before usage and production.
5. For plug and jack, screw part of shell has an anti-looseness coating (Mec process), but the adhesive function is impaired when they are reused. Therefore, apply Loctite 263 which is manufactured by Henkel Japan Ltd., Tokyo to the screw part during reassembly in order to prevent looseness.

Miniature Push-Pull Circular Connectors

HR25A Series



Mated dimensions



■ Features

1. Small size – high density

Outer diameters - plugs (max) : 11mm : 4, 6 and 8 positions
13mm : 12, 16 and 20 positions

2. Simple push-in/ pull-out mating / un-mating

Polarized for correct insertion by a straight push-in movement.
Built-in lock release mechanism securely locks mated connectors while allowing quick disconnection by simply pulling on the plug release collar.

3. Several mounting number of positions, styles and terminations

Number of positions : 4, 6, 8, 12, 16 and 20
Connector : Plug, jack, receptacle
Termination : Solder, crimp or PCB mounting type only for receptacle
Choice of socket or pin contacts for plugs and receptacles.

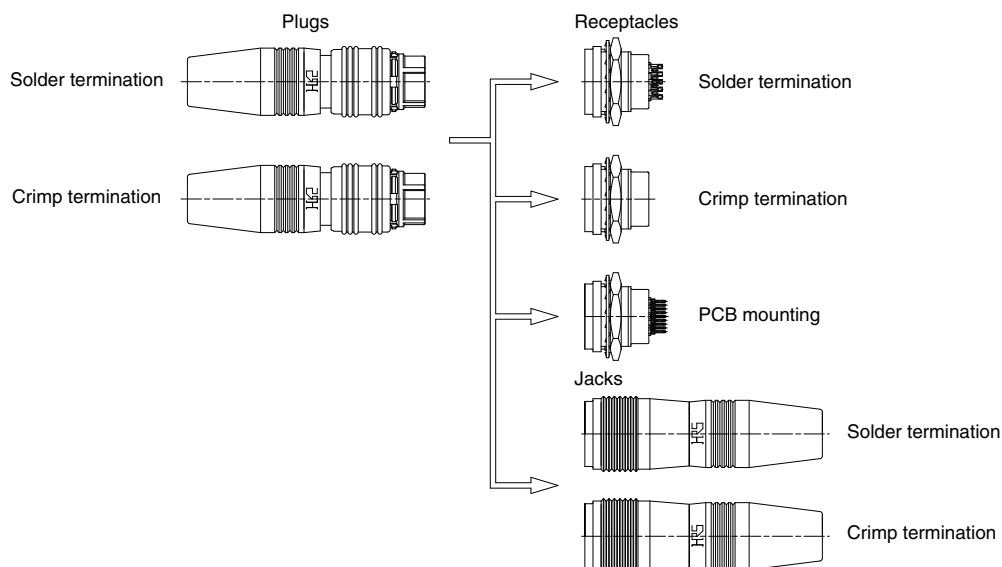
4. Metal shells

Secure lock between the metal shells provides excellent ground connection for the applications requiring EMI protection.

5. RoHS compliant

All materials used in are compliant with RoHS regulations.

■ Diagrams of Connectors in Combination



■
 Specifications

Ratings	Current rating	1A	Operating temperature range	-25℃ to +85℃
	Voltage rating	30V AC, 42V DC	Storage temperature range	-10℃ to +60℃
Item	Specification		Conditions	
1. Insulation resistance	1,000MΩ min.		100V DC	
2. Withstanding voltage	No flashover or insulation breakdown		100V AC / 1 minute (test voltage)	
3. Contact resistance	30mΩ max.		1A DC	
4. Durability	Contact resistance : 50mΩ max.		No damage, cracks or parts dislocation 1,000 cycles	
5. Vibration	No electrical discontinuity of 10μs or longer No damage, cracks or parts dislocation.		Frequency : 10 to 55Hz, single amplitude of 0.75mm 5 minute cycle, 10 cycles in each of the 3 axis	
6. Humidity	Insulation resistance : 5MΩ min. (at high humidity) Insulation resistance : 50MΩ min. (when dry) No damage, cracks or parts dislocation.		96 hours at 40℃, and humidity of 90 to 95%	
7. Temperature cycle	Insulation resistance : 1,000MΩ min.		Temperature : -55℃ → room temp. → +85℃ → room temp. Time : 30min. → 2 to 3 min. → 30min. → 2 to 3 min. 5 cycles	

■
 Materials / Finish

Item		Material	Finish	Remarks
Plug Jack	Outer shell	Zinc alloy	Nickel plated	——
	Insulator	PPS		UL94V-0
	Gasket, boots	Ethylene propylene rubber, Chloroprene rubber		——
	Contacts	Phosphor bronze	Gold plated	——
Receptacle	Outer shell	Zinc alloy	Nickel plated	——
	Insulator	PPS		UL94V-0
	Contacts	Phosphor bronze	Gold plated	——

■
 Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
 Please select from the product numbers listed in this catalog when placing orders.

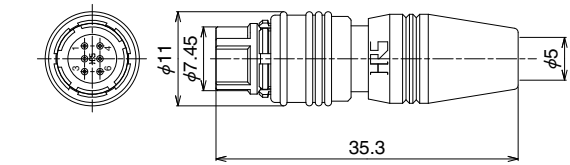
HR25A – 7 P – 6 S C ()**
① ② ③ ④ ⑤ ⑥ ⑦

① Model name	: HR25A Series	⑤ Contact type :	S : Female contacts P : Male contacts
② Shell size	: The shell size is the outer diameter of the mating end of the plug.	⑥ Termination type :	Blank : Solder C : Crimp A : DIP
③ Connector type :	P : Plug R : Receptacle J : Jack	⑦ Other specifications	A two-digit character is added to indicate other specifications as needed.
④ Number of contacts	: 4, 6, 8, 12, 16, 20		

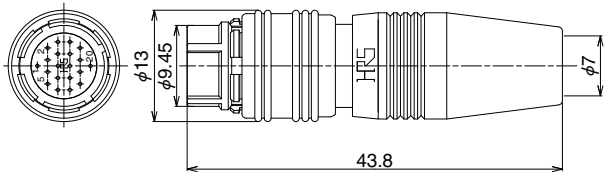
■Plug

●Solder termination (contacts inserted)

Shell size : 7



Shell size : 9



All dimensions : mm

Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
7	4	HR25A-7P-4P	125-0612-1	HR25A-7P-4S	125-0613-4
	6	HR25A-7P-6P(31)	125-0602-8 31	HR25A-7P-6S	125-0611-9
	8	HR25A-7P-8P	125-0609-7	HR25A-7P-8S	125-0610-6
9	12	HR25A-9P-12P	125-0607-1	HR25A-9P-12S	125-0608-4
	16	HR25A-9P-16P	125-0605-6	HR25A-9P-16S	125-0606-9
	20	HR25A-9P-20P	125-0600-2	HR25A-9P-20S	125-0604-3

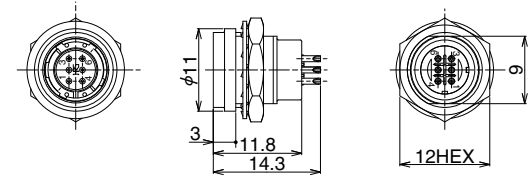
●Crimp termination (separate contacts required)

Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
9	12	HR25A-9P-12PC	125-0652-6	HR25A-9P-12SC	125-0653-9
	16	HR25A-9P-16PC	125-0650-0	HR25A-9P-16SC	125-0651-3
	20	HR25A-9P-20PC	125-0648-9	HR25A-9P-20SC	125-0649-1

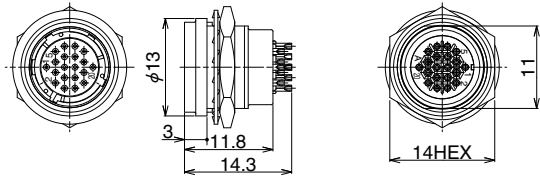
■Receptacle

●Solder termination (contacts inserted)

Shell size : 7



Shell size : 9

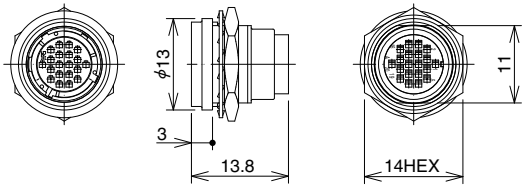


All dimensions : mm

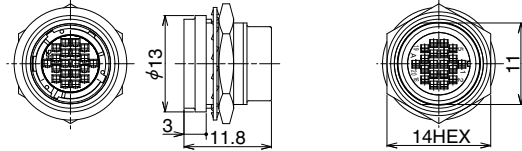
Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
7	4	HR25A-7R-4P	125-0623-8	HR25A-7R-4S	125-0622-5
	6	HR25A-7R-6P	125-0621-2	HR25A-7R-6S	125-0603-0
	8	HR25A-7R-8P	125-0620-0	HR25A-7R-8S	125-0619-0
9	12	HR25A-9R-12P	125-0618-8	HR25A-9R-12S	125-0617-5
	16	HR25A-9R-16P	125-0616-2	HR25A-9R-16S	125-0615-0
	20	HR25A-9R-20P	125-0614-7	HR25A-9R-20S	125-0601-5

●Crimp termination (separate contacts required)

Male contact type
HR25A-9R-20PC



Female contact type
HR25A-9R-20SC



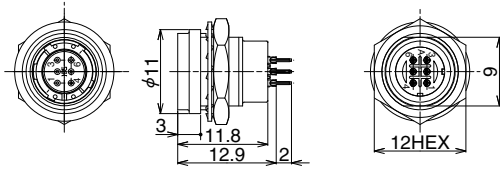
All dimensions : mm

Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
9	12	HR25A-9R-12PC	125-0659-5	HR25A-9R-12SC	125-0658-2
	16	HR25A-9R-16PC	125-0657-0	HR25A-9R-16SC	125-0656-7
	20	HR25A-9R-20PC	125-0654-1	HR25A-9R-20SC	125-0655-4

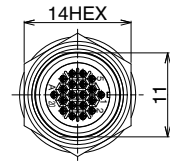
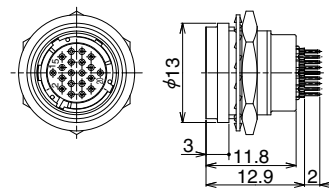
■ Receptacle

● Through hole (for PC board mounting)

Shell size : 7
HR25A-7R-6SA



Shell size : 9
HR25A-9R-20SA



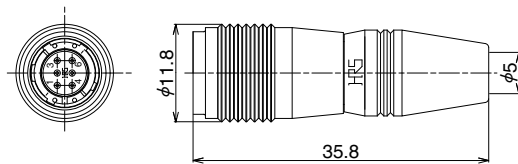
All dimensions : mm

Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
7	4	HR25A-7R-4PA	125-0647-6	HR25A-7R-4SA	125-0646-3
	6	HR25A-7R-6PA	125-0645-0	HR25A-7R-6SA	125-0644-8
	8	HR25A-7R-8PA	125-0643-5	HR25A-7R-8SA	125-0642-2
9	12	HR25A-9R-12PA	125-0641-0	HR25A-9R-12SA	125-0640-7
	16	HR25A-9R-16PA	125-0639-8	HR25A-9R-16SA	125-0638-5
	20	HR25A-9R-20PA	125-0637-2	HR25A-9R-20SA	125-0636-0

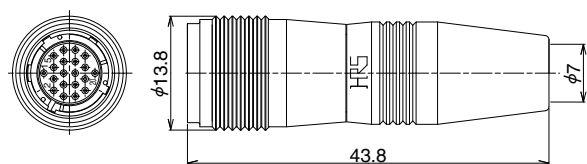
■ Jack

● Solder termination (contact inserted)

Shell size : 7
HR25A-7J-6S



Shell size : 9
HR25A-9J-20S



All dimensions : mm

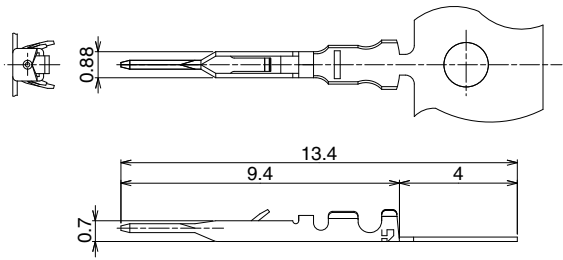
Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
7	4	HR25A-7J-4P	125-0635-7	HR25A-7J-4S	125-0634-4
	6	HR25A-7J-6P	125-0633-1	HR25A-7J-6S	125-0632-9
	8	HR25A-7J-8P	125-0631-6	HR25A-7J-8S	125-0630-3
9	12	HR25A-9J-12P	125-0629-4	HR25A-9J-12S	125-0628-1
	16	HR25A-9J-16P	125-0627-9	HR25A-9J-16S	125-0626-6
	20	HR25A-9J-20P	125-0625-3	HR25A-9J-20S	125-0624-0

● Crimp termination (separate contacts required)

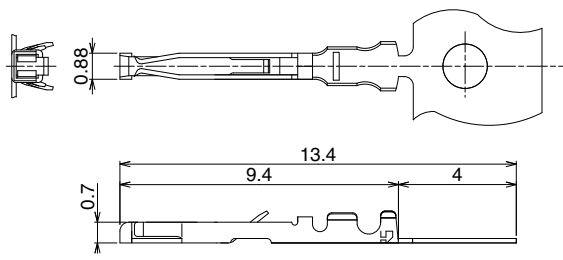
Shell size	No. of contacts	Male contact type		Female contact type	
		Part No.	HRS No.	Part No.	HRS No.
9	12	HR25A-9J-12PC	125-0665-8	HR25A-9J-12SC	125-0664-5
	16	HR25A-9J-16PC	125-0663-2	HR25A-9J-16SC	125-0662-0
	20	HR25A-9J-20PC	125-0661-7	HR25A-9J-20SC	125-0660-4

◆Crimp contact

Male contact



Female contact



All dimensions : mm

Type	Part No.	HRS No.	Conductor size / construction	Type	Part No.	HRS No.	Conductor size / construction
Loose contact	HR25-PC-111	125-0419-1	30 AWG	Loose contact	HR25-SC-111	125-0421-3	30 AWG
Reel contact	HR25-PC-211	125-0420-0		Reel contact	HR25-SC-211	125-0422-6	

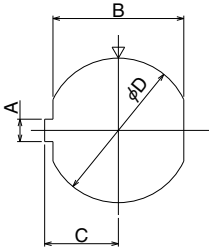
Note 1 : Wire jacket outer diameter 0.71mm max.

Note 2 : Loose piece contacts are packaged 100 pcs/pack. Reel contacts are packaged 10,000 pcs/reel.

◆Applicable tools

Type	Part No.	HRS No.	Used on
Manual contact crimping tool	HR25-TA3032HC	150-0207-3	HR25-PC-111 or HR25-SC-111
Automatic crimping machine	CM-105C	901-0001-0	—
Applicator	AP105-HR25-1	901-2040-6	HR25-PC-211 or HR25-SC-211
Cable clamp crimp tool	HR10A-TC-02	150-0041-2	—
Solder termination fixture	HR25A-7P-T02	150-0243-7	HR25A-7P For tightening
	HR25-7P-T01	150-0085-8	HR25A-7P For wiring
Plug shell tightening fixture	HR25A-9P-T02	150-0242-4	HR25A-9P For tightening
	HR25-9P-T01	150-0086-0	HR25A-9P For wiring
Contact extraction tool	HR25-TP	150-0091-0	—

◆Panel cutouts

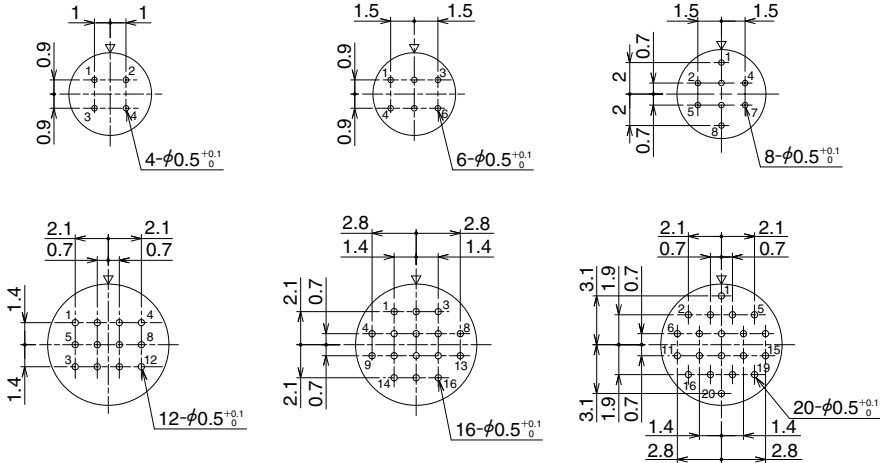


All dimensions : mm

Dimensions	HR25A-7R	HR25A-9R
A	1.55 ^{+0.05} ₀	
B	9.05 ^{+0.03} _{-0.02}	11.05 ^{+0.03} _{-0.02}
C	5.1 ^{+0.1} ₀	6.1 ^{+0.1} ₀
D	10 ^{+0.05} ₀	12 ^{+0.05} ₀
Applicable panel thickness	0.7 to 2	

Note 1 : The receptacle panel cutout is a view from the mating side.

◆PCB mounting pattern (for through-hole PC board mounting)

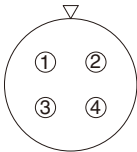
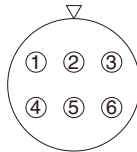
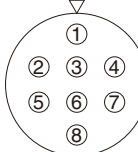


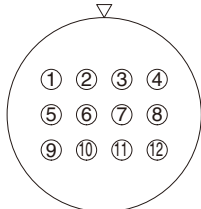
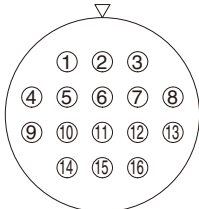
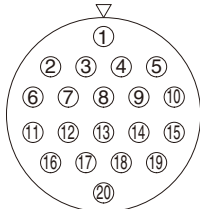
Note 1 : The above diagrams are viewed from the engagement side of the socket insert (i.e., the wiring side of the pin insert).

Note 2 : The ▽ mark of the above diagrams indicates the engagement guide key position.

Note 3 : Plated through hole location and diameter tolerance: ±0.05.

◆ Contact Position Arrangement

Shell size	Size 7		
Contact configuration			
No. of contacts	4	6	8
Withstand voltage	100V AC for 1 minute		
Current capacity	1A		
Insulation resistance	1,000MΩ or greater		
Contact resistance	30mΩ		
Solderpot inner diameter	0.5mm dia.		

Shell size	Size 9		
Contact configuration			
No. of contacts	12	16	20
Withstand voltage	100V AC for 1 minute		
Current capacity	1A		
Insulation resistance	1,000MΩ or greater		
Contact resistance	30mΩ		
Solderpot inner diameter	0.5mm dia.		

Note 1 : The above diagrams are viewed from the engagement side of the socket insert (i.e., the wiring side of the pin insert).

Note 2 : The ▽ mark of the above diagrams indicates the engagement guide key position.

Note 3 : The withstand voltage indicates the test voltage value. For regular use the voltage used should be less than 30V AC or 42V DC.

Note 4 : The current capacity of the crimp terminals indicates the value when using wire of 30 AWG.

Note 5 : The insulation resistance indicates a value when measured at 100V DC.

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