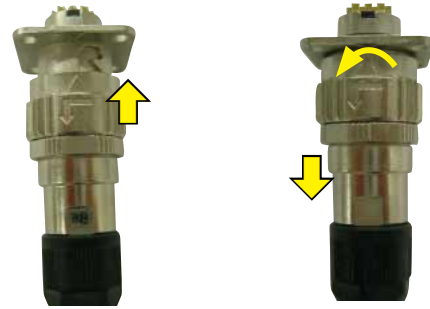


Small, Waterproof, Push-On Bayonet Lock Connectors

HR08D Series



Push-On Bayonet Lock



Mating is completed simply by pushing the plug onto the receptacle.

To unmate this connector, rotate the locking collar to release the lock, then pull them apart.

Fig. ①

■ Features

1. Simplified mating operations

- To mate the connector, simply push it onto the receptacle. To unmate, rotate the locking collar and pull the plug back from the receptacle. (Fig. ①)
- Simplified mating is enabled by the alignment markings
- Mating guide keys are provided at 3 points to prevent contact damage. They also provide the ability to blind mate these connectors when needed. Plug connector does not damage the receptacle contacts.

2. Waterproof structure

Supports IP67 and IP68 ratings while in the mated condition. (Ratings explained below*)

*IP67: Submerged in 1 m for 30 minutes

*IP68: Submerged in 2 m for 14 days

3. Adjustable cable direction

The right angle plug can be adjusted to mount in any of the 8 different directions (adjustable in 45° increments). (Fig. ②)

Cable exit directions

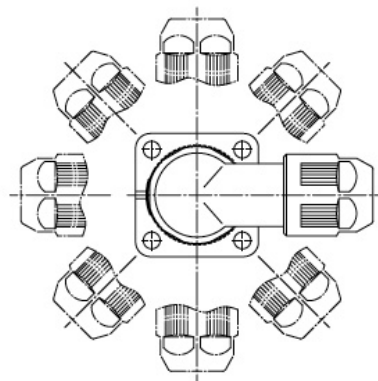


Fig. ②

4. Variations available

Items	
No. of Contacts	2 or 10 positions available
Connector Type	Straight Plug, Right Angle Plug, Receptacle (10 pos. only)
Plug Termination	Crimp, solder
Receptacle Termination	Solder
Cord Tube Material	Plastic, metal
Cable Diameter Range (Reference)	($\phi 5.7$ to 6.5) ($\phi 6.5$ to 7.3) ($\phi 8.0$ to 9.0)

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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■ Product Specifications

Ratings	Rated Current	3A	Operating Temperature Range	-20°C to +85°C
	Rated Voltage	AC200V, DC250V	Storage Temperature Range	-10°C to +60°C

Items	Specifications	Conditions
1. Contact Resistance	20mΩ or below	Measured with DC 1A
2. Insulation Resistance	Minimum of 1,000MΩ	Measured with DC 500V
3. Withstanding Voltage	No flashover or breakdown	10 pos. AC 900V for 1 minute 2 pos. AC 1,500V for 1 minute
4. Vibration Resistance	No electrical discontinuity of 10μs or greater	Tested in 3 directions with 10 to 500Hz /cycle, total vibration width of 0.75mm, and 98m/s ² , 3 hours each.
5. Shock	No electrical discontinuity of 10μs or greater	Tested in 3 directions with the acceleration of 490m/s ² , and a duration of 11ms, 3 times each
6. Durability	Contact Resistance : Maximum of 30mΩ	500 mating cycles
7. Temperature Cycles	Insulation Resistance : Minimum of 500MΩ	Left at -55°C : 30 minutes ⇒ Ordinary temperature : 2 to 3 minutes ⇒ 85°C : 30 minutes ⇒ Ordinary temperature : 2 to 3 minutes, 2 to 3 minutes, Total of 5 cycles
8. Humidity Resistance	Insulation resistance Minimum of 50MΩ (high humidity) Minimum of 500MΩ (dry)	Left at temperature 71°C and humidity 95% for 336 hours. Left at the temperature of 71°C and 95% humidity for 336 hours.
9. Waterproof Structure	Should be no water leakage inside the connector	Left submerged in water at the depth of 1m, for 0.5 hours, in the mated condition.

■ Materials / Finish

● Plug

Component	Materials	Finish	Remarks
Outer Shell	Zinc Alloy, aluminum alloy and polyamide resin (black)	Nickel under plating	_____
Insulator	PPS resin (black)	_____	UL94V-0
Female Contact	Phosphorous bronze	Gold plating	_____
O Ring, Gasket	NBR, Nitrile hydride rubber	_____	_____

● Receptacle

Component	Materials	Finish	Remarks
Outer Shell	Zinc alloy	Nickel under plating	_____
Insulator	PPS resin (black)	_____	UL94V-0
Male Contact 10 position	Brass	Gold plating	_____
O Ring	NBR	_____	_____

■ 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.

● Plug

HR08D 12 WP A - 10 S ()**

① ② ③ ④ ⑤ ⑥ ⑦

① Model Name : HR08D series
② Shell Size : Diameter (mm) of the mating interface of the plug
③ Shell Type WP : Straight plug, WLP: Right angle plug
④ Cord Tube and Cable Range Type A : Material of cord tube : Metal, with cable dia. range of (φ 5.7 to 6.5) B : Material of cord tube : Metal, with cable dia. range of (φ 6.5 to 7.3) M : Material of cord tube : Plastic, with cable dia. range of (φ 5.7 to 6.5) N : Material of cord tube : Plastic, with cable dia. range of (φ 6.5 to 7.3) K : Material of cord tube : Metal, with cable dia. range of (φ 8.0 to 9.0)
⑤ Number of Contacts : Contacts available (2 or 10)
⑥ Contact Shape S : Female contact for solder termination SC : Female contact for crimping termination
⑦ Other specifications : A two-digit character is added to indicate other specifications as needed.

● Receptacle

HR08D 12 WR - 10 P ()**

① ② ③ ④ ⑤ ⑥

① Model Name : HR08D series
② Shell Size : Diameter (mm) of the mating interface of the plug
③ Shell Type WR : Receptacle
④ Number of Contacts : Contacts available (10 only)
⑤ Contact Shape P : Male contact for solder termination
⑥ Other specifications : A two-digit character is added to indicate other specifications as needed.

● Crimp contact

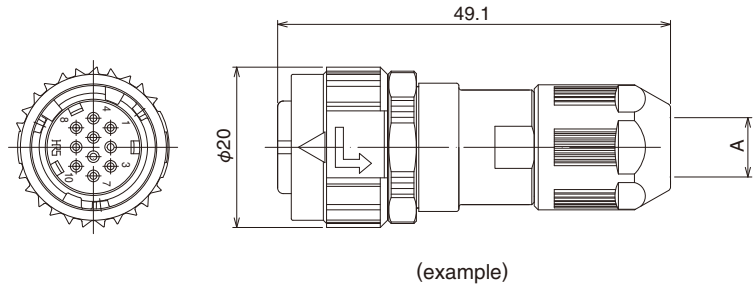
HR34B - SC1 - 2 1 1

① ② ③ ④ ⑤

① Model Name : HR34B series (Shares the same contacts as the HR34B series)
② Contact Type SC1 : Female contact
③ Contact Shape 1 : Single contact 2 : Reel contact
④ Barrel Shape : 1 : 20 to 25 AWG
⑤ Plating Type 1 : Gold plating

■Straight plug

●Regular version (Cord tube material : Plastic)



◆Solder termination version

Part No.	HRS No.	A	Applicable cable diameter range (Reference)	Contact solder cup inner diameter
HR08D-12WPM-10S(31)	108-0274-5 31	φ7.4	(φ5.7 to 6.5)	φ1
HR08D-12WPN-10S(31)	108-0275-8 31	φ8.5	(φ6.5 to 7.3)	
HR08D-12WPM-2S(31)	108-0272-0 31	φ7.4	(φ5.7 to 6.5)	φ1.8
HR08D-12WPN-2S(31)	108-0266-7 31	φ8.5	(φ6.5 to 7.3)	

◆Crimp termination version

Part No.	HRS No.	A	Applicable cable diameter range (Reference)
HR08D-12WPM-10SC(31)	108-0268-2 31	φ7.4	(φ5.7 to 6.5)
HR08D-12WPN-10SC(31)	108-0269-5 31	φ8.5	(φ6.5 to 7.3)

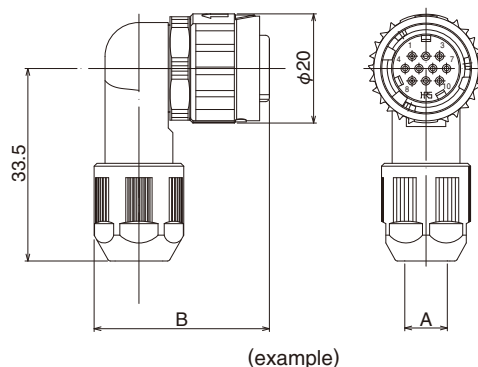
●Robust version (Cord tube material: Metal)

◆Solder termination version

Part No.	HRS No.	A	Applicable cable diameter range (Reference)	Contact solder cup inner diameter
HR08D-12WPA-10S(31)	108-0219-7 31	φ7.4	(φ5.7 to 6.5)	φ1
HR08D-12WPB-10S(31)	108-0231-2 31	φ8.5	(φ6.5 to 7.3)	
HR08D-12WPK-10S(31)	108-0262-6 31	φ9.5	(φ8.0 to 9.0)	
HR08D-12WPA-2S(31)	108-0279-9 31	φ7.4	(φ5.7 to 6.5)	φ1.8
HR08D-12WPB-2S(31)	108-0280-8 31	φ8.5	(φ6.5 to 7.3)	
HR08D-12WPK-2S(31)	108-0281-0 31	φ9.5	(φ8.0 to 9.0)	

◆Crimp termination version

Part No.	HRS No.	A	Applicable cable diameter range (Reference)
HR08D-12WPA-10SC(31)	108-0220-6 31	φ7.4	(φ5.7 to 6.5)
HR08D-12WPB-10SC(31)	108-0232-5 31	φ8.5	(φ6.5 to 7.3)
HR08D-12WPK-10SC(31)	108-0263-9 31	φ9.5	(φ8.0 to 9.0)

■ Right angle plug**● Regular version (Cord tube material : Plastic)****◆ Solder termination version**

Part No.	HRS No.	A	B	Applicable cable diameter range (Reference)	Contact solder cup inner diameter
HR08D-12WLPM-10S(31)	108-0276-0 31	$\phi 7.4$	30.85	($\phi 5.7$ to 6.5)	$\phi 1$
HR08D-12WLPN-10S(31)	108-0277-3 31	$\phi 8.5$		($\phi 6.5$ to 7.3)	
HR08D-12WLPM-2S(31)	108-0273-2 31	$\phi 7.4$		($\phi 5.7$ to 6.5)	$\phi 1.8$
HR08D-12WLPN-2S(31)	108-0267-0 31	$\phi 8.5$		($\phi 6.5$ to 7.3)	

◆ Crimp termination version

Part No.	HRS No.	A	B	Applicable cable diameter range (Reference)
HR08D-12WLPM-10SC(31)	108-0270-4 31	$\phi 7.4$	30.85	($\phi 5.7$ to 6.5)
HR08D-12WLPN-10SC(31)	108-0271-7 31	$\phi 8.5$		($\phi 6.5$ to 7.3)

● Robust version (Cord tube material: Metal)**◆ Solder termination version**

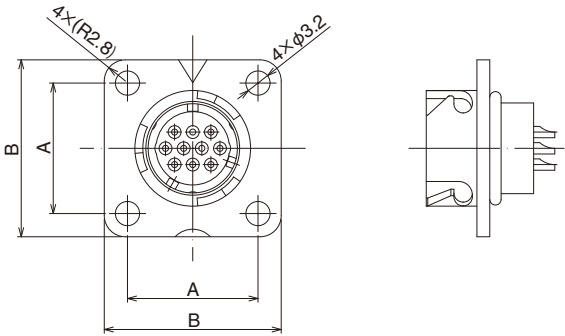
Part No.	HRS No.	A	B	Applicable cable diameter range (Reference)	Contact solder cup inner diameter
HR08D-12WLPA-10S(31)	108-0221-9 31	$\phi 7.4$	30.5	($\phi 5.7$ to 6.5)	$\phi 1$
HR08D-12WLPA-10S(31)	108-0233-8 31	$\phi 8.5$		($\phi 6.5$ to 7.3)	
HR08D-12WLPA-10S(31)	108-0264-1 31	$\phi 9.5$	31.5	($\phi 8.0$ to 9.0)	$\phi 1.8$
HR08D-12WLPA-2S(31)	108-0282-3 31	$\phi 7.4$	30.5	($\phi 5.7$ to 6.5)	
HR08D-12WLPA-2S(31)	108-0283-6 31	$\phi 8.5$		($\phi 6.5$ to 7.3)	
HR08D-12WLPA-2S(31)	108-0284-9 31	$\phi 9.5$	31.5	($\phi 8.0$ to 9.0)	

◆ Crimp termination version

Part No.	HRS No.	A	B	Applicable cable diameter range (Reference)
HR08D-12WLPA-10SC(31)	108-0222-1 31	$\phi 7.4$	30.5	($\phi 5.7$ to 6.5)
HR08D-12WLPA-10SC(31)	108-0234-0 31	$\phi 8.5$		($\phi 6.5$ to 7.3)
HR08D-12WLPA-10SC(31)	108-0265-4 31	$\phi 9.5$	31.5	($\phi 8.0$ to 9.0)

■Receptacle

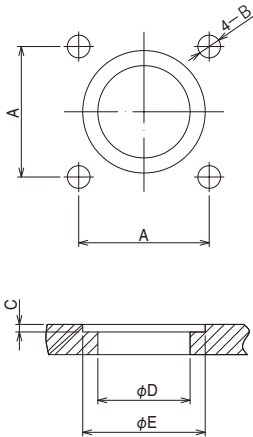
◆Solder termination version



Part No.	HRS No.	A	B	Contact solder cup inner diameter
HR08D-12WR-10P(31)	108-0218-4 31	17.26	23.4	φ1.1

Note : The number 10 contact is connected to the outer shell, which provides the ground connection.

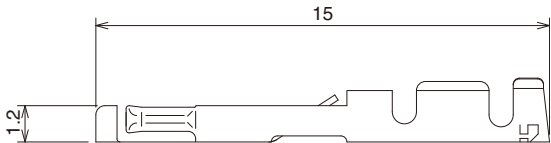
◆Panel Mount Hole Dimensions



Dimension	HR08D-12WR-10P(31)
A	17.26±0.05
B	M3×0.5
C	1 0/ - 0.1
D	12.2 +0.1/0
E	16.2 +0.1/0

■Crimp contact

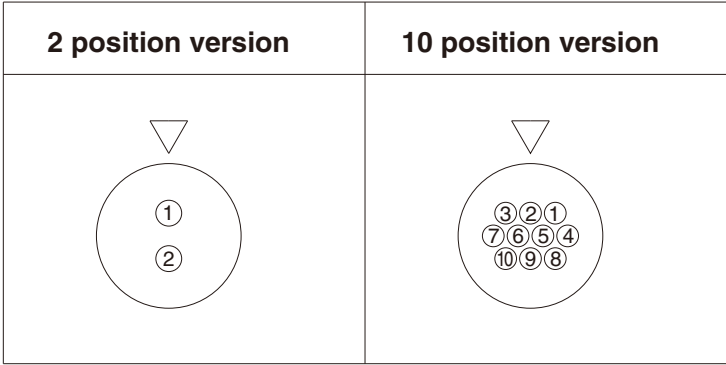
●Female contact



Type	Part No.	HRS No.	Applicable electric wires
Loose piece contact	HR34B-SC1-111	134-0051-7	20 to 25 AWG
Reel contact	HR34B-SC1-211	134-0050-4	

Note : The loose piece contacts are sold in packs of 100. Reel contacts are sold in full reel quantities of 10,000 pieces per reel.

◆Plug Contact Diagram



Note : The numbering of the contact is from the plug termination side.

◆Applicable Tools

Tools	Part No.	HRS No.	Applicable contacts	Applicable wire size
Manual Crimping Tool	HT304/HR34B-1	150-0107-9	HR34B-SC1-111	20 AWG、 23 AWG、 25 AWG
Automatic Crimping Press	CM-105C	901-0001-0	HR34B-SC1-211	20 to 25 AWG
Automatic Crimping Applicator	AP105-HR34B-1	901-2051-2		
Contact Extraction Tool	RP6-SC-TP	150-0039-0	HR34B-SC1-111 HR34B-SC1-211	—————

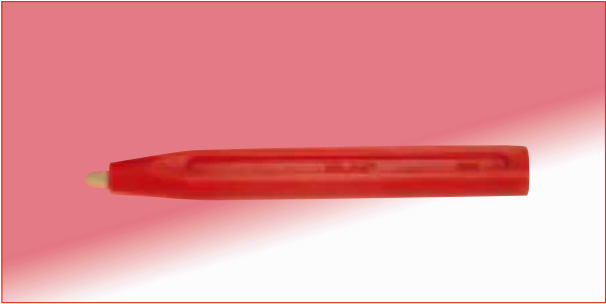
◆Manual Crimping Tool



◆Automatic Crimping Press CM-105C Model (applicator sold separately)



◆Contact Extraction Tool



High Performance, Miniature Circular Connectors

HR22 Series



■ Features

- Both waterproof and non-waterproof types are available. (Waterproof and non-waterproof connectors can be mated with each other if needed, but will no longer result in a waterproof connection)
- Waterproof performance
The HR22 waterproof type is IP67 and IP68 rated when mated.
IP67 : Left at a water depth of 1 m for 30 minutes
IP68 : Left at a water depth of 2 m for 14 days
- Both crimp and solder type termination are available. Termination style can be chosen as required by your specific application.
- The receptacle features a jam nut configuration at the front, which allows for easy panel mounting.
- The jack connector can also be used as a panel jack.

■ Product specifications

Ratings	Rated current	2A	Operating temperature range	-25℃ to +85℃
	Rated voltage	100V AC, 140V DC	Storage temperature range	-10℃ to +60℃

Item	Specifications	Conditions
1. Contact resistance	20mΩ max.	Measured at DC 1A
2. Insulation resistance	1,000MΩ min.	Measured at DC 100V
3. Withstanding voltage	No flashover or dielectric breakdown.	Measured at AC 300V for 1 minute
4. Vibration resistance	There shall be no electrical No electrical discontinuity for 10μs or greater.	10 to 500Hz/cycle, amplitude : 0.75mm, acceleration- 98m/s ² 3 axis directions, 2 hours each
5. Shock resistance	No electrical discontinuity for 10μs or greater.	Acceleration : 490m/s ² , duration : 11ms, 3 axis directions, 3 times each
6. Mating cycles	Contact resistance : 20mΩ max.	100 times
7. Resistance to water pressure	No water penetration into the connector.	Mated connectors left in Water at a depth of 1.8m for 48 hours.

■ Materials / Finish

Items	Material	Finish	Remarks
Plated shell	Brass	Nickel plating	_____
	Zinc alloy		_____
Insulator	PBT resin	Black	UL94V-0
Male contact	Brass (Soldering)	Silver plating	_____
	Phosphor bronze (Crimping)		_____
Female contact	Beryllium copper (Soldering)		_____
	Phosphor bronze (Crimping)		_____
Hood and bushing	Acrylonitrile-butadiene rubber	Black	

■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.

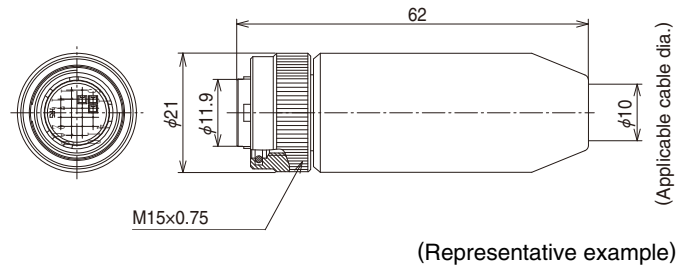
HR22 - 12 W T P A - 20 SC ()**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①	Model name : HR22		
②	Shell size : The shell size is the outer diameter of the mating end of the plug.		
③	W : Waterproof Blank : Non-waterproof		
④	Locking mechanism T : Threaded coupling type		
⑤	Shell type	P : Plug J : Jack R : Receptacle	
⑥	Shell variation : Variation of the same connector configuration is shown by A, B, C, D....		
⑦	Number of contacts		
⑧	Contact form	P : Male pin PC : Crimp type male pin S : Female pin SC : Crimp type female pin	
⑨	Other specifications : A two-digit character is added to indicate other specifications as needed.		

■ Plug

● Waterproof type



Crimp type

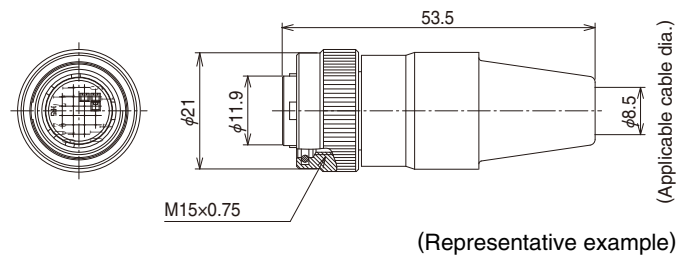
Part No.	HRS No.	RoHS
HR22-12WTPA-20SC(73)	122-0004-7 73	Yes

Solder type

Part No.	HRS No.	RoHS
HR22-12WTPA-20S(73)	122-0015-3 73	Yes
HR22-12WTPA-20P(73)	122-0027-2 73	

Cable clamping force, rotation force, waterproof performance, and other types of performance may differ depending on the cable type used. Please make sure to verify the suitability of the cable assembly before use or production.

● Non-waterproof type



Crimp type

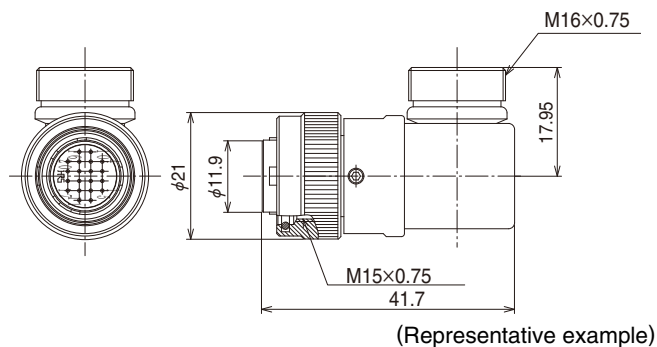
Part No.	HRS No.	RoHS
HR22-12TPD-20SC(73)	122-0010-0 73	Yes
HR22-12TPD-20PC(73)	122-0018-1 73	

Solder type

Part No.	HRS No.	RoHS
HR22-12TPD-20S(73)	122-0011-2 73	Yes
HR22-12TPD-20P(73)	122-0012-5 73	

Cable clamping force, rotation force, waterproof performance, and other types of performance may differ depending on the cable type used. Please make sure to verify the suitability of the cable assembly before use or production.

● **Waterproof type**

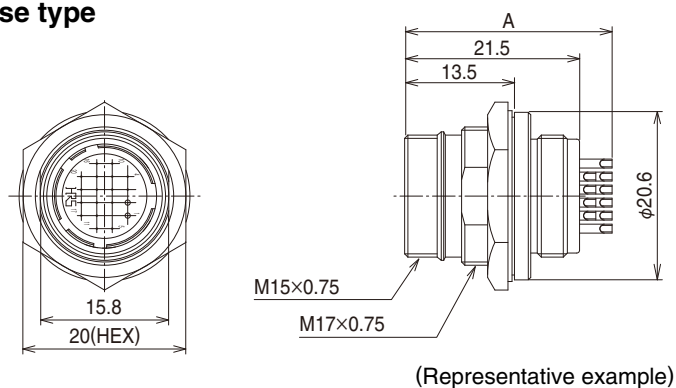


Part No.	HRS No.	RoHS
HR22-12WTLP-20P(31)	122-0054-5 31	Yes

(Representative example)

Part No.	HRS No.	A	RoHS
JR13WCC-7(72)	114-2048-9 72	7	Yes
JR13WCC-8(72)	114-2049-1 72	8	
JR13WCC-9(72)	114-2050-0 72	9	
JR13WCC-10(72)	114-2051-3 72	10	

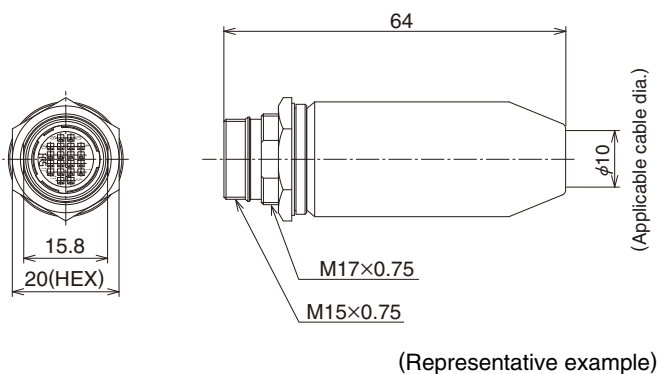
● Waterproof / Non-waterproof combined use type



Part No.	HRS No.	A	RoHS
HR22-12WTRA-20S(73)	122-0014-0 73	24	Yes
HR22-12WTRA-20P(73)	122-0013-8 73	25.5	

Jack

Waterproof type

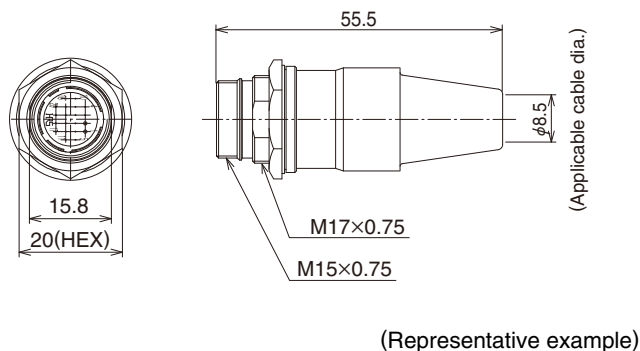


Crimp type

Part No.	HRS No.	RoHS
HR22-12WTJA-20PC(73)	122-0006-2 73	Yes

Cable clamping force, rotation force, waterproof performance, and other types of performance may differ depending on the cable type used. Please make sure to verify the suitability of the cable assembly before use or production.

Non-waterproof type



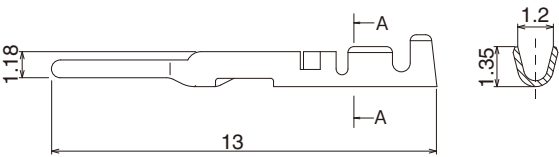
Solder type

Part No.	HRS No.	RoHS
HR22-12TJD-20S(73)	122-0023-1 73	Yes
HR22-12TJD-20P(73)	122-0022-9 73	

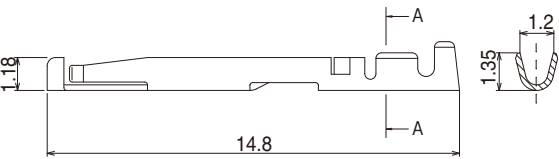
Cable clamping force, rotation force, waterproof performance, and other types of performance may differ depending on the cable type used. Please make sure to verify the suitability of the cable assembly before use or production.

◆Contact

●Male contact



●Female contact



Male contact

Item	Part No.	HRS No.	Applicable cable	Packaging	RoHS
Loose contact	HR22-PC-122	122-0017-9	24 to 28 AWG Insulation diameter φ1.15MAX	100 pcs/pack	Yes
Reel contact	HR22-PC-222	122-0009-0		10,000 pcs/reel	

Female contact

Item	Part No.	HRS No.	Applicable cable	Packaging	RoHS
Loose contact	HR22-SC-122	122-0016-6	24 to 28 AWG Insulation diameter φ1.15MAX	100 pcs/pack	Yes
Reel contact	HR22-SC-222	122-0008-8		10,000 pcs/reel	

◆Applicable tools

Item		Part No.	HRS No.	Applicable terminal	Applicable wire
Manual crimping tool		HR22-TA2428HC	150-0200-4	HR22-PC-122 HR22-SC-122	24 to 28 AWG Insulation diameter φ1.15MAX
Automatic crimping tool	Machine body	CM-105C	901-0001-0	—————	—————
	Applicator	AP105-HR22-2	901-2023-7	HR22-PC-222 HR22-SC-222	24 to 28 AWG Insulation diameter φ1.15MAX
Cable crimping tool		HR10A-TC-04	150-0058-5	—————	φ8.5
Extractor		RP6-SC-TP	150-0039-0	—————	—————
Cable termination tool		HR22-12P-T01	150-0075-4	—————	Plug connector use



Manual crimping tool



Extractor



Cable crimping tool

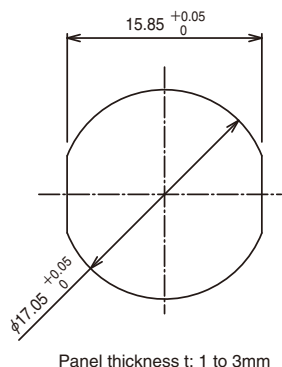


HR22-12P-T01



Automatic crimping machine
CM-105C

Panel mounting dimensions



Pin allocation	
Solder pot inner dia.	φ0.8

Notes: The above figure shows the pin allocation viewed from the engagement side.

Precautions

- Switch off the power of the circuit before disconnecting or plugging-in the connectors.
- Use connectors with socket contacts at the power side of the circuit.
- Make sure that the coupling is in completely cocked position.
- The cable pull and twisting strength and other characteristics may differ, depending on the cable structure. Please confirm before the use.
- This product uses silver plated contacts. Please be aware that silver easily reacts to sulfur gases, causing discoloration or degradation when exposed to certain environmental conditions as shown below. These conditions include areas with:

- Dusty site
- Area or location with a high density of sulfur dioxide gas, hydrogen sulfide gas, nitrogen dioxide gas, or other gas (Emission gases from vehicles and factories, etc.)
- Highly fluctuating temperatures, such as close to a heating apparatus.

In addition, it is recommended to store the products in their original packaging or similar state in order to prevent discoloration.

- Temperature : -10 to +60°C, relative humidity : 80% or lower (An environment where temperature and relative humidity are constant and there is little temperature variation.)

Please use the products within six months after delivery. (If the storage period has expired, please examine the connectors and solder cups for corrosion and/or tarnish.)

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