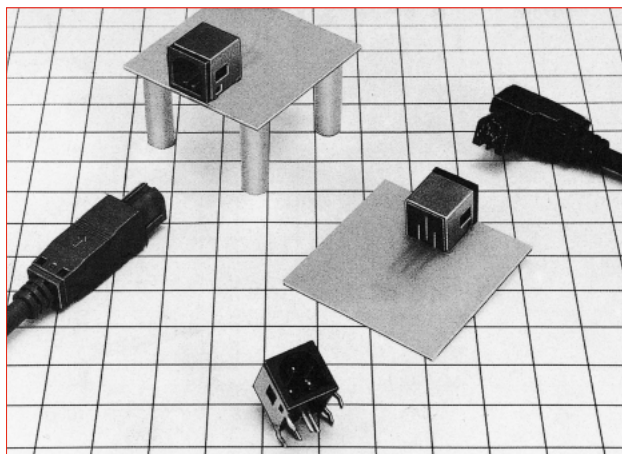


Small I/O connectors for AC adapters

RP34 Series



■ Features

1. Superior mating operability

A snap-and-lock style allows easy mating/unmating.

2. Cable direction is variable

The three-position, right-angled plug makes it possible to arrange the cable to the left or right, offering flexible wiring options depending on your requirement.

3. Sequential contact mating

Designed with sequential contact mating, one pin makes contact with its counterpart sooner than the others and establishes a securely grounded connection.

4. Easy plug assembly

A snap-together case eliminates the need for screws to fasten the case and helps provide for a quick plug assembly.

5. Variations

Items	
Number of contacts	3 or, 4
Connector type	Plug : Straight, right angle Receptacle : Right angle
Plug termination version	Crimp
Receptacle termination version	PCB dip
Receptacle mounting method	PCB dip

■ Product Specifications

Ratings	Rated current	3A	Operating temperature range	-10 to +60°C
	Rated voltage	AC30V, DC42V	Storage temperature range	-10 to +60°C

Items	Specifications	Conditions
1. Contact resistance	30mΩ max	Measured at DC 1A
2. Insulation resistance	1,000MΩ min	Measured at DC 100V
3. Withstanding voltage	No flashover or dielectric breakdown.	AC 150V for 1 minute
4. Vibration resistance	No electrical discontinuity for 10μs or longer.	10 to 55Hz/cycle, amplitude : 0.75mm, 3 axis directions, 2 hours each
5. Shock resistance	No electrical discontinuity for 10μs or longer.	Acceleration : 490m/s ² , duration : 11ms, 3 axis directions, 3 cycles each
6. Mating Cycles	Contact resistance : 60mΩ max.	3 contacts : 5,000 times, 4 contacts : 1,000 times
7. Temperature cycle	Insulation resistance : 100MΩ min.	-55°C : 30 minutes → Normal temperature : 10 to 15 minutes → 85°C : 30 minutes → Normal Temperature : 10 to 15 minutes, left for 5 cycles
8. Moisture resistance	Insulation resistance: 10MΩ min (at high humidities). 100MΩ min (when dry).	Temperature : 40°C, relative humidity : 90 to 95%, left for 96 hours

■ Materials / Finish

Items		Material	Finish	Remarks
Plug	Exterior, insulator	Polycarbonate resin	—	UL94V-0
	Clamp	Brass	—	—
	Bushing	Vinyl chloride resin	—	—
Receptacle	Exterior, insulator	PBT resin	—	UL94V-0
	Male contact	Steel	Tin plating	—
		Brass	Silver plating	—
Crimped female contact	Female contact	Phosphor bronze	Silver plating	—

■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.

●Connector

RP34 - 8 SP - 3 S C (71)

① ② ③ ④ ⑤ ⑥ ⑦

①Model name : RP34 Series
②Shell size : The shell size is the outer diameter of the mating end of the plug.
③Shell type SP : Straight plug P : Right-angled plug R : Receptacle
④Number of contacts :
⑤Contact form P : Male contact S : Female contact
⑥Contact termination method : C : Crimp contact termination DL : Right-angled dip method
⑦ Other specifications : A two-digit character is added to indicate other specifications.

●Crimp contact

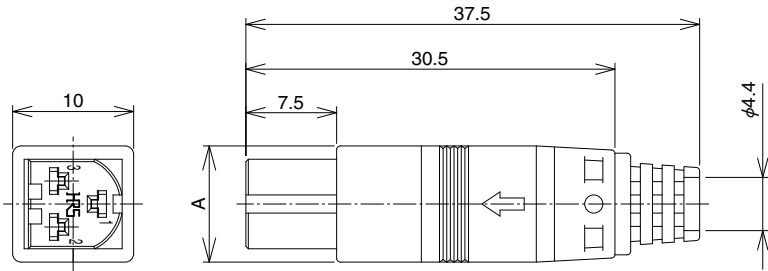
RP34 - SC - 2 1 2

① ⑧ ⑨ ⑩ ⑪

①Model name : RP34 Series
⑧Contact type : SC = Crimped female contact
⑨Contact packaging types : 1 : Loose piece contacts 2 : Reel contacts
⑩Applicable wire : 1 : For 18 to 22 AWG 2 : For 24 to 28 AWG
⑪Identification of plating : 2 : Silver plating

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■Straight plug

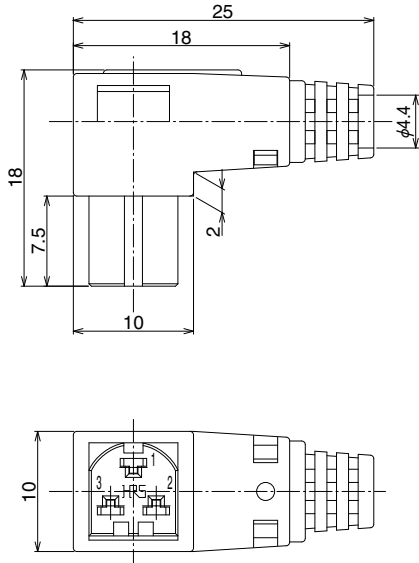


(This figure is a representative example.)

Part No.	HRS No.	No. of contacts	A	Remarks
RP34-8SP-3SC(71)	113-5049-1 71	3	9.6	_____
RP34-8SP-3SCD(71)	113-5061-7 71			Mating key dependent type
RP34-8SP-4SC(71)	113-5097-4 71	4	11	_____

Note : Cable clamping force, cable rotation force, and other aspects may differ depending on the cable construction.
We recommend that you verify the suitability of the cable assembly before use or production.

■Right-angled plug

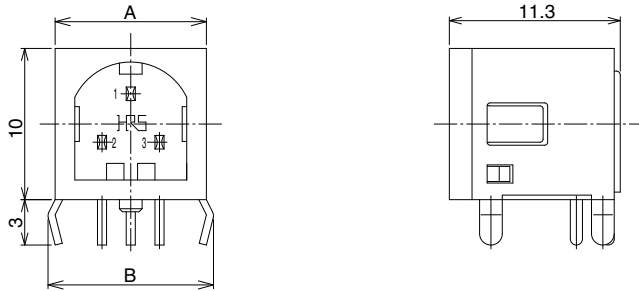


(This figure is a representative example.)

Part No.	HRS No.
RP34-8P-3SC(71)	113-5041-0 71

Note : Cable clamping force, cable rotation force, and other aspects may differ depending on the cable construction.
We recommend that you verify the suitability of the cable assembly before use or production.

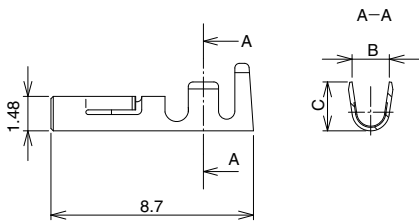
■Receptacle



(This figure is a representative example.)

Part No.	HRS No.	No. of contacts	A	B	Remarks
RP34-8R-3PDL	113-5042-2	3	10	11	_____
RP34-8R-3PDLD	113-5066-0				Mating key dependent type
RP34-8R-4PDL	113-5098-7	4	11	12	_____

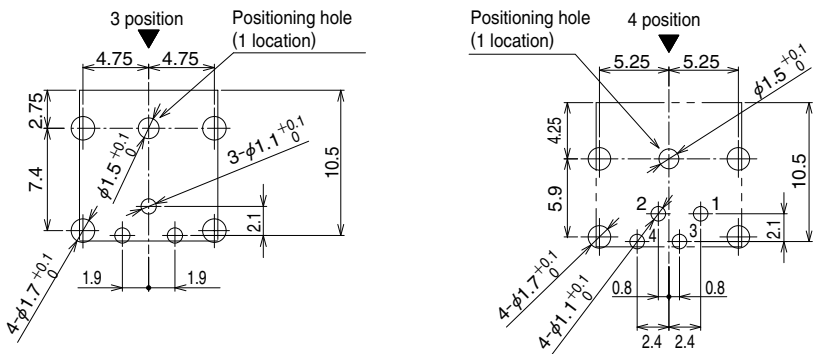
◆Contact (female contact)



Part No.	HRS No.	B	C	Applicable wire size	Remarks
RP34-SC-212	113-5043-5	1.6	2.1	18 to 22 AWG	Reel contacts
RP34-SC-112	113-5076-4	1.6	2.1	18 to 22 AWG	Loose piece contacts
RP34-SC-222	113-5100-7	1.2	1.35	24 to 28 AWG	Reel contacts
RP34-SC-122	113-5102-2	1.2	1.35	24 to 28 AWG	Loose piece contacts

Note : Loose piece contacts are packaged 100 pcs/pack and reel contacts are available on 10,000 piece reel. Please order in full quantity packs or reels.

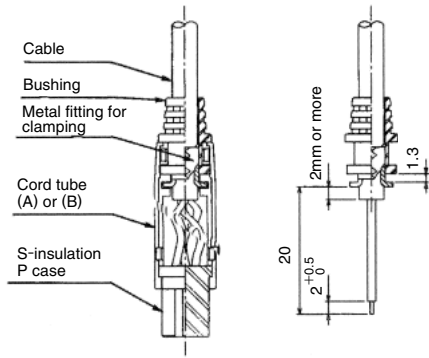
◆Dip post arrangement for PCB layout



- Remarks
1. The applicable PCB thickness is between 0.8 and 1.6mm.
 2. A machining tolerance of ± 0.05 is recommended for the PCB layout.
 3. The above figure shows the PCB side of the rack into which contact dip posts will be inserted.
- "▼" mark indicates the plug interface mating side.

◆Termination procedure

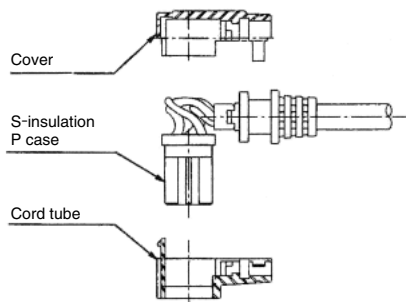
●Straight plug



Operation procedure—straight plug

1. First, pass the prepared cable through the bushing, and then crimp and terminate the contacts.
2. Assemble the crimped and terminated contacts into the contact holes of the S-insulation P case.
At this time, please make sure that the crimped contacts are securely engaged onto the contact holes of the S-insulation P case by lightly pulling on the cable.
3. Crimp and fix the metal fitting for clamping with the applicable tool (RP34-TC-01).
4. Assemble the S-insulation P case, metal fitting for clamping, and bushing onto the cord tube (A). The S-insulation P case can be assembled in two ways, at 180° opposing angles. Please make sure to select the orientation that is suitable for your purpose.
5. Finally, assemble the remaining cord tube (B). The assembly has been completed.

●Rightangle plug

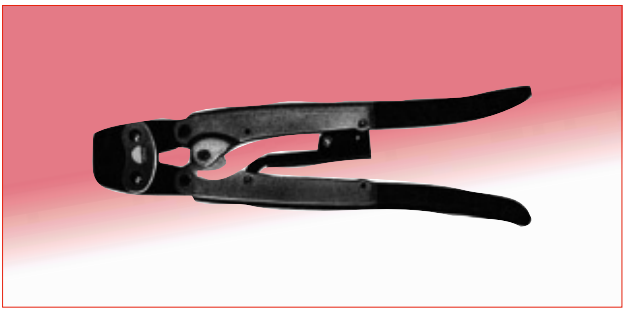


Operation procedure—right-angled plug

1. The right-angled plugs can be assembled in the same manner as the straight plugs, and the S-insulation P case can be assembled to the cord tube in one of two positions. 180° opposite each other. Please make sure to select the orientation that is suitable for your purpose.

◆Applicable tools

Type	Items	Part No.	HRS No.	Applicable contact	Applicable wire size
Machine crimping	Automatic crimping press	CM-105C	901-0001-0	—	—
	Applicator	AP105-RP34-1	901-2025-2	RP34-SC-212	18 to 22 AWG
		AP105-RP34-2	901-2034-3	RP34-SC-222	24 to 28 AWG
	Cable crimping tool	RP34-TC-01	150-0074-1	—	—
	Extraction tool	RP34-SC-TP	150-0072-6	—	—



Cable crimping tool (RP34-TC-01)

(The handle shape shown above is a representative example.)



Automatic crimping press
(Type CM-105C)

Type RP34L

Product Specifications

Ratings	Rated current	5A (when using 18 AWG)	Operating temperature range	−25℃ to +85℃
	Rated voltage	AC30V, DC42V	Storage temperature range	−10℃ to +60℃

Items	Specifications	Conditions
1. Contact resistance	30mΩ max.	Measured at DC 1A
2. Insulation resistance	1,000MΩ min.	Measured at DC 100V
3. Withstanding voltage	No flashover or dielectric breakdown.	AC 150V for 1 minute
4. Vibration proof	No electrical discontinuity 10μs or longer.	10 to 55Hz, half amplitude : 0.75mm, 3 axis directions, 2 hours each
5. Temperature cycle	Insulation resistance : 100MΩ min	−55℃ : 30 minutes → Normal temperature : 10 to 15 minutes → +85℃ : 30 minutes → Normal Temperature : 10 to 15 minutes, 5 cycles
6. Corrosion resistance	No corrosion that affects performance.	Left in 5% salt water solution for 48 hours
7. Mating Cycles	Contact resistance : 60mΩ max	5,000 times

Materials / Finish

Items		Material	Finish	Remarks
Receptacle— (2position)	Metal fitting	Phosphor bronze	Solder plating	————
	Insulator	Polyamide resin	Black	UL94HB
	Contact	Brass	Palladium plating	————
Plug— (2 position)	Exterior	Vinyl chloride resin	Black	UL94V-0
	Insulator	Polyamide resin		UL94HB
	Contact	Phosphor bronze	Silver plating	————
Receptacle— (3 position)	Metal fitting	Phosphor bronze	Solder plating	————
	Insulator	PPS resin	Black	UL94V-0
	Contact	Brass	Palladium plating	————
Plug— (3 position)	Exterior	Polycarbonate resin	Black	UL94V-0
		Vinyl chloride resin		
	Insulator	PPS resin	Palladium plating	————
	Contact	Phosphor bronze		

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.

RP34L - 5 PA - 2 SC (****)

①Series name : RP34L	⑤ Contact type PD : Male contact (dip) SC : Female contact (crimped)
②Shell : Indicates the shell form.	⑥ Cable length : (****) may vary depending on the cable.
③Type Receptacle : R Straight plug : PA Right-angled plug : LP	
④Number of contacts : Shows the number. 2 or 3 contacts.	

■Receptacle

●2 position



RP34L-5R-2PD(71)

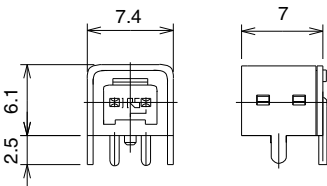
●3 position



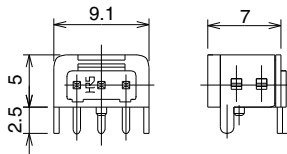
RP34L-5R-3PD(71)

Part No.	HRS No.
RP34L-5R-2PD(71)	113-5154-6 71
RP34L-5R-3PD(71)	113-5157-4 71

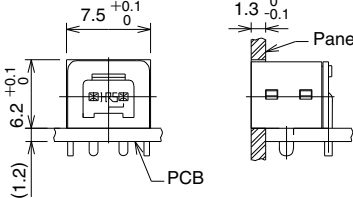
●2 position



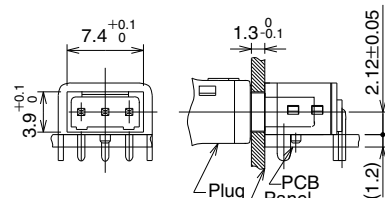
●3 position



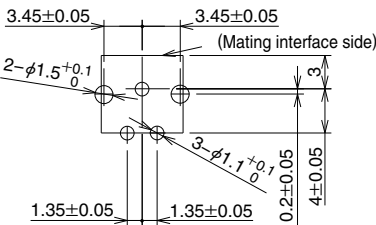
Recommended panel opening dimensions (reference)



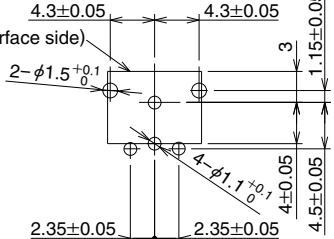
Recommended panel opening dimensions (reference)



PCB layout dimension



PCB layout mounting dimensions



■Plug



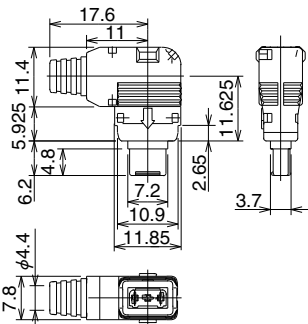
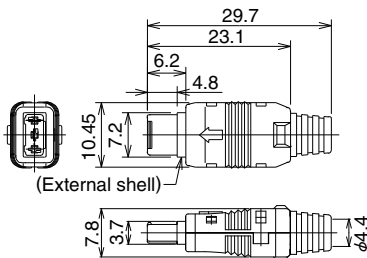
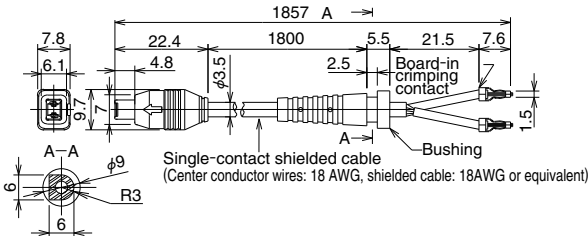
RP34L-5PA-2SC(1857)(71)



RP34L-5PA-3SC(71)

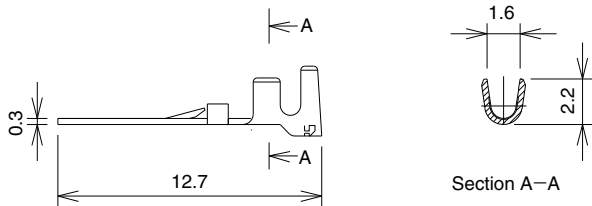
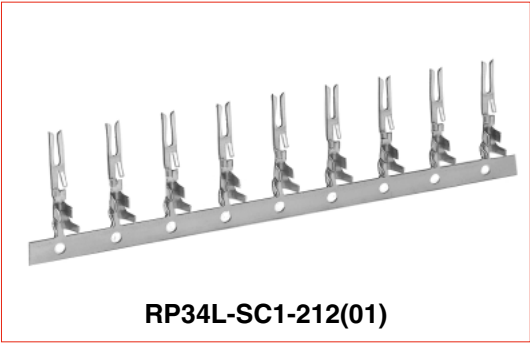


RP34L-5LP-3SC(71)



Part No.	HRS No.
RP34L-5PA-2SC(1857)(71)	113-5153-3 71
RP34L-5PA-3SC(71)	113-5178-4 71
RP34L-5LP-3SC(71)	113-5161-1 71

■Crimp contact



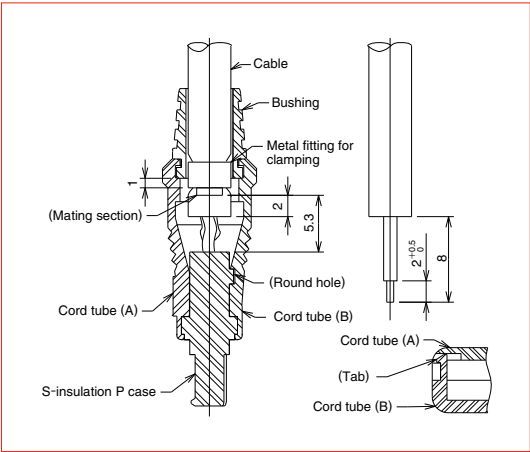
Part No.	HRS No.
RP34L-SC1-212(01)	113-5151-8 01

◆Applicable tools

Type	Part No.	HRS No.	Applicable contact	Applicable cables
Manual crimping tools	HT-102/RP34L-SC1-212	150-0210-8	RP34L-SC1-112(01)	18 to 22 AWG
Machine crimping	Automatic crimping press	CM-105C	—————	—————
	Applicator	AP105-RP34L-SC1-212	RP34L-SC1-212(01)	18 to 22 AWG
Cable crimping tool	RP34-TC-01	150-0074-1	—————	φ4
Extraction tool	RP6-SC-TP	150-0039-0	—————	—————

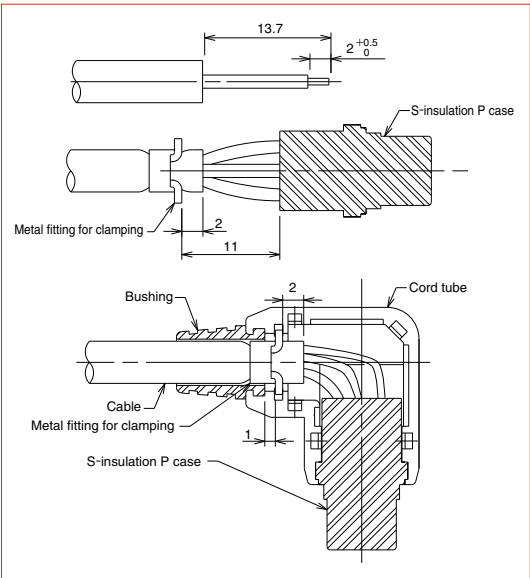
◆Assembly procedure (3 position plug)

●Straight plug



1. First pass the prepared cable through the bushing, and then crimp and terminate the contacts.
2. Assemble the crimped and terminated contacts into the contact holes of the S-insulation P case. At this time, please make sure that the crimped contacts are securely engaged onto the contact holes of the S-insulation P case by lightly pulling the cable. If you find an erroneous wiring, insert the extractor (RP6-SC-TP) from the mating side to pull out the contact from the termination side, and then re-assemble.
3. Crimp the metal fitting for clamping with the applicable tool (RP34-TC-01).
4. Align and assemble the protrusion of the S-insulation P case to the round hole of the cord tube (B).
5. Attach the mating section of the metal fitting for clamping to the recess of the cord tube (B), and then assemble the bushing and metal fitting for clamping onto the cord tube (B).
6. Assemble the cord tube (A) onto the cord tube (B). At this time, please make sure that the four tabs of the cord tube (B) rest on the angled hole of the cord tube (A).

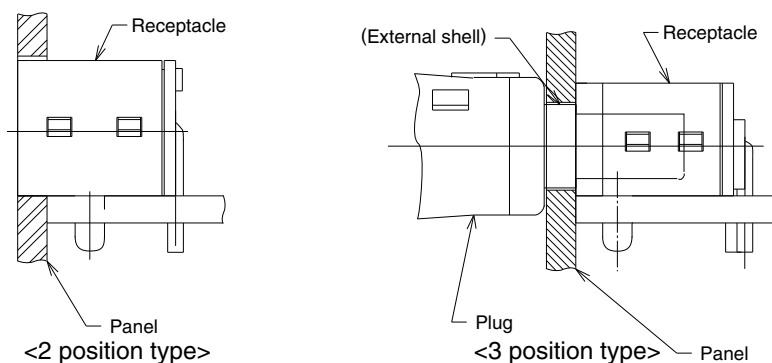
●Right angle



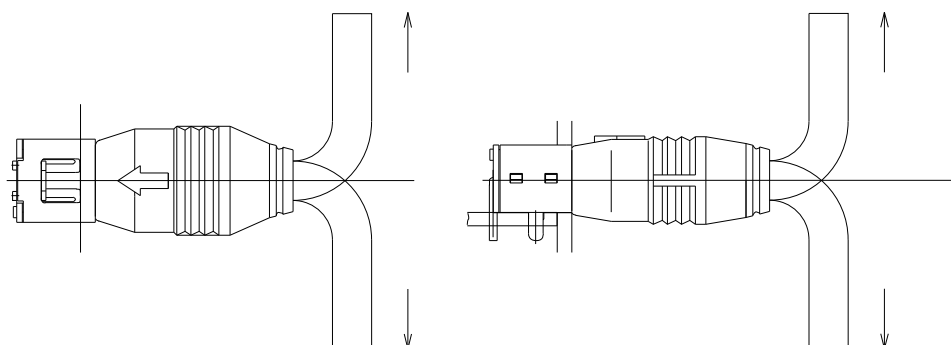
1. Right-angled plugs can be assembled in the same manner as the straight plugs.

◆ Precautions

1. To prevent damage to the connector after mounting, make sure that it is supported with a panel or another substrate. This will prevent any type of excessive load or force on the connector. For 2 position type, please support the external shell of the receptacle. For 3 position type, please support the external shell of the plug. See page 3 for details on recommended panel dimensions.



2. When mated together, do not apply a load of 30 N or more on the cable in the direction indicated by the arrows. Please note that an excessive tensile stress may break the connectors.



3. This product series uses silver plated contacts. Silver reacts easily to exposure to sulfur gas so the below conditions may cause tarnishing.
 - Dusty environments
 - Area with a high concentration area of gases such as sulfur dioxide gas, hydrogen sulfide gas, nitrogen dioxide gas and so on. Example; In close proximity to factory exhaust, automotive emissions, etc.
 - Close to heaters, or in other areas marked by extreme temperature differences or high humidity.
 - Close to rubber products includes rubber adhesives.

The Electrical connection is not affected by tarnishing on a silver surface due to the wiping effect of the contact pins.

Storage

Packing state; Packed in original packing or equivalent container

Temperature -10 to +60°C

Humidity 85% Max

(It is recommended that the product be stored in an area of normal level of temperature and humidity, and free of any temperature fluctuation)

Please use this products within 6 months of delivery.

(After 6 month, please check the solderability before use)

“Storage” means long-term storage of the unused products in sealed packaging, prior to assembly to PCB.

MEMO :

Handwriting practice area consisting of multiple horizontal dashed lines.

MEMO :

Handwriting practice area consisting of 30 horizontal dashed lines.

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