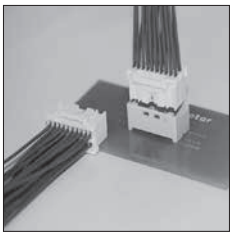
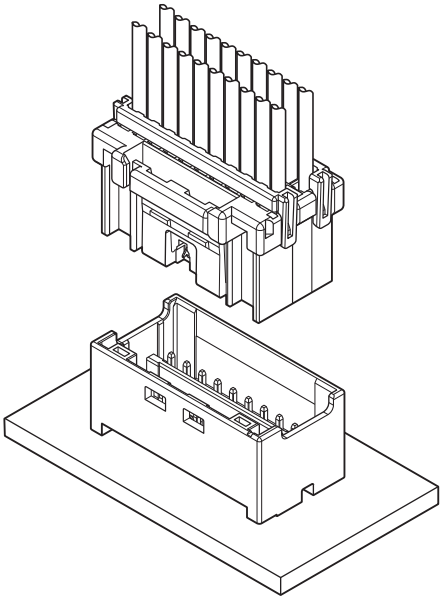


PID CONNECTOR

2.0 mm pitch/Wire-to-Board connectors/Crimp style and Mating style



This PID connector is a 2.0 mm pitch box type wire-to-board connector with secure lock device, and it has the mechanism for detecting half mating, which is possible to judge electrically whether its state is the complete or incomplete mating by the circuit of detecting half mating provided at the part of connector.

- Mechanism for detecting half mating
- Header suitable for potting process (MAX. 6.5 mm)
- Retainer mountable type
- Secure lock mechanism

■ Specifications

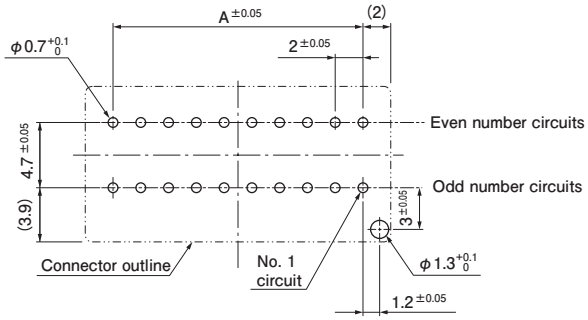
- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 250 V AC/DC
- Temperature range: −25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance:
  Initial value/ 10 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage:
  There shall be no breakdown or flashover while applying 800 VAC for one minute.
- Applicable wire range:
  Conductor size/ AWG #26 to AWG #22
  Insulation O.D. / φ1.0 mm to φ1.5 mm
- Applicable PC board thickness: 1.6 mm

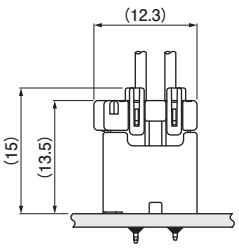
∗ Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the “Technical Documents” column on the Product Information page) before use.
∗ RoHS2 compliance
∗ Dimensional unit: mm
∗ Contact JST for details.

■ Standards

For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the “Technical Documents” column on the Product Information page).
∗ Specifications registered to overseas standards may differ from the general specifications listed above.

PC board layout and Assembly layout

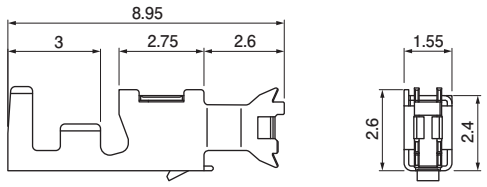




Note: 1. The PC board layout is the figure viewed from the connector mounting side.
2. Dimension A: See “Header” section on page 3.
3. Tolerance for the PCB hole pitch shall be ± 0.05, and shall not accumulate more than ± 0.05.
4. Hole dimensions differ according to the type of PC board and piercing method.
The above dimensions are reference values. Please contact JST for details.

JST

Contact



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm²)	Insulation O.D. (mm)	
SPID-001T-P0.5	#26 to #22 (0.13 to 0.33)	1.0 to 1.5	7,500

Material and Surface finish, etc.
Copper alloy, tin-plated

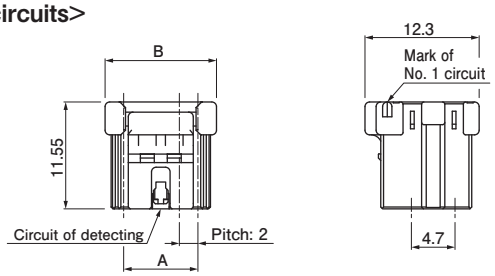
Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SPID-001T-P0.5	AP-K2N	MKS-L	APLMK SPID001-05

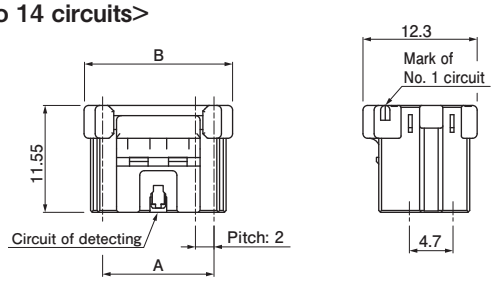
Note: Contact JST for fully automatic crimping applicator.

Socket housing

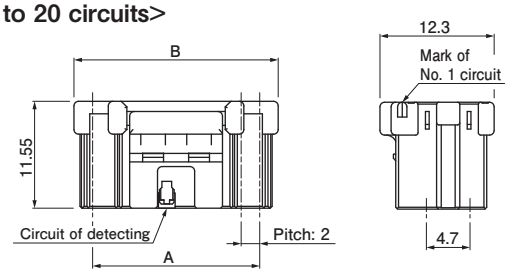
<10 circuits>



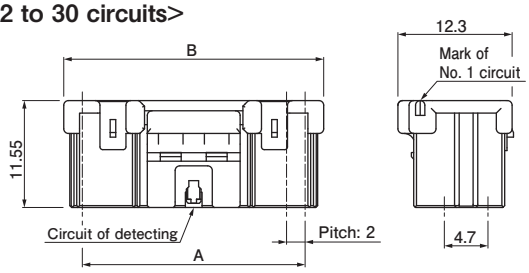
<12 to 14 circuits>



<16 to 20 circuits>



<22 to 30 circuits>



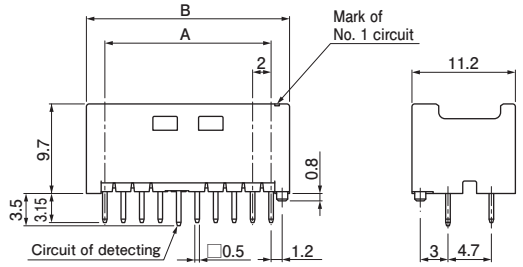
No. of circuits	Model No.	Dimensions (mm)		Detection pin number	Q'ty/bag
		A	B		
10	**PIDRP-10V-S**	8.0	12.0	5	1,000
12	**PIDRP-12V-S**	10.0	14.0	7	1,000
14	**PIDRP-14V-S**	12.0	16.0	7	1,000
16	**PIDRP-16V-S**	14.0	18.0	9	1,000
18	**PIDRP-18V-S**	16.0	20.0	9	1,000
20	**PIDRP-20V-S**	18.0	22.0	11	1,000
22	**PIDRP-22V-S**	20.0	24.0	11	500
24	**PIDRP-24V-S**	22.0	26.0	13	500
26	**PIDRP-26V-S**	24.0	28.0	13	500
30	**PIDRP-30V-S**	28.0	32.0	15	500

Material and Surface finish, etc.
PBT (Glass-filled), natural

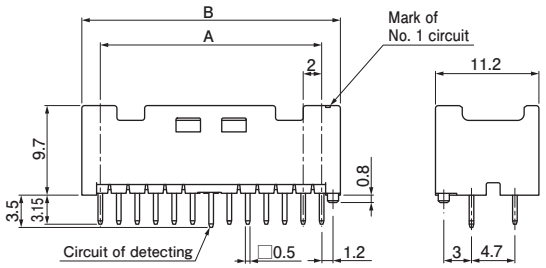
Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the “Technical Documents” column on the Product Information page).

Header

<10 to 20 circuits>



<22 to 30 circuits>



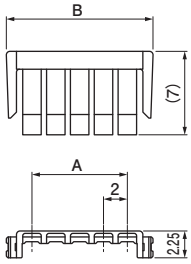
No. of circuits	Model No.	Dimensions (mm)		Detection pin number	Q'ty/box
		A	B		
10	**B10B-PIDSS-1**	8.0	12.0	5	4,000
12	**B12B-PIDSS-1**	10.0	14.0	7	3,360
14	**B14B-PIDSS-1**	12.0	16.0	7	2,880
16	**B16B-PIDSS-1**	14.0	18.0	9	2,560
18	**B18B-PIDSS-1**	16.0	20.0	9	2,400
20	**B20B-PIDSS-1**	18.0	22.0	11	2,080
22	**B22B-PIDSS-1**	20.0	24.0	11	1,920
24	**B24B-PIDSS-1**	22.0	26.0	13	1,760
26	**B26B-PIDSS-1**	24.0	28.0	13	1,600
30	**B30B-PIDSS-1**	28.0	32.0	15	1,440

Material and Surface finish, etc.
Post: Copper alloy, copper-undercoated, tin-plated Wafer: PA 66 (Glass-filled), natural

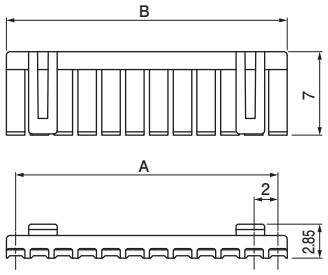
Note: 1. Products are also available without detection pins to detect incomplete mating. These products would come with all pins inserted without detection hooks.
2. This product displays (LF)(SN) on a label.
3. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the “Technical Documents” column on the Product Information page).

Retainer

<For 10 to 20 circuits>



<For 22 to 26, 30 circuits>



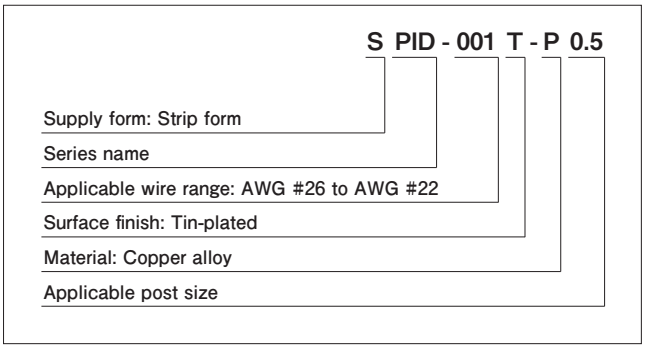
No. of pins	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
10	**PNIS-05V**	8.0	12.3	1,000
12	**PNIS-06V**	10.0	14.3	1,000
14	**PNIS-07V**	12.0	16.3	1,000
16	**PNIS-08V**	14.0	18.3	1,000
18	**PNIS-09V**	16.0	20.3	1,000
20	**PNIS-10V**	18.0	22.3	1,000
22	**PMS-11V-S**	20.0	21.55	1,000
24	**PMS-12V-S**	22.0	23.55	1,000
26	**PMS-13V-S**	24.0	25.55	1,000
30	**PMS-15V-S**	28.0	29.55	1,000

Material and Surface finish, etc.
PA 66 (Glass-filled), natural

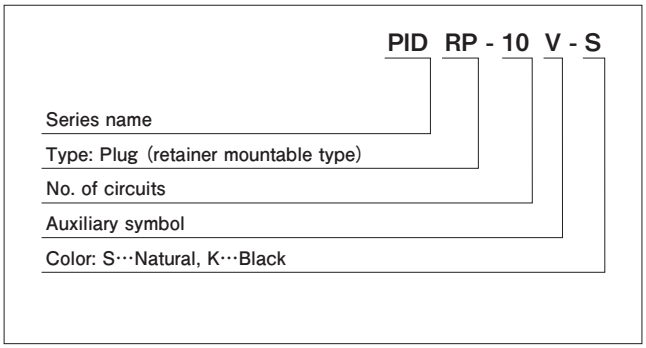
Note: 1. Please select the following 2 types of retainers accordingly:
20 pins or less : PNIS (from PNI connector)
22 pins or more : PMS (from PA connector)
When using 2 retainers at once, select the retainer type based on the number of pins.
2. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the “Technical Documents” column on the Product Information page).

Model number allocation

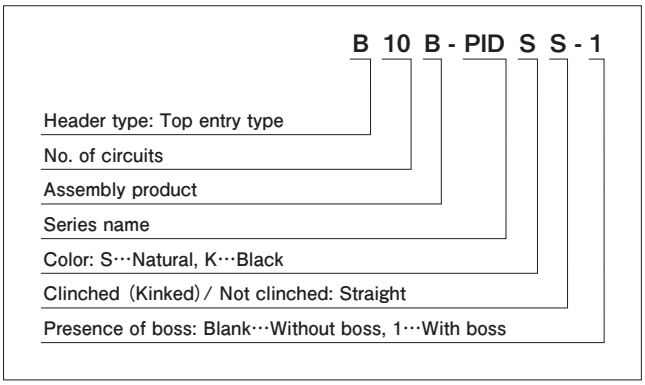
Contact



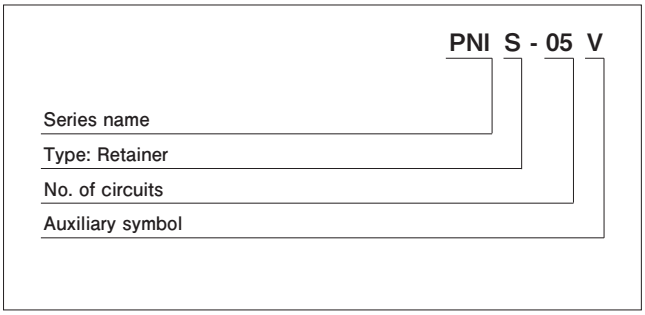
Socket housing



Header



Retainer < For 10 to 20 circuits>



Retainer < For 22 to 26, 30 circuits>