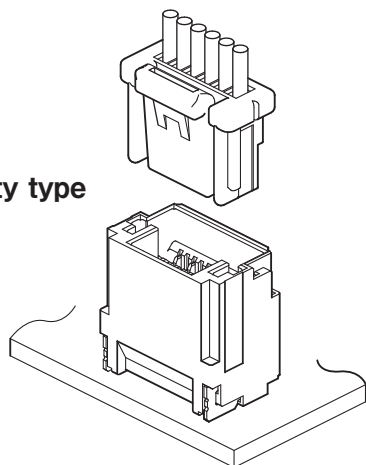


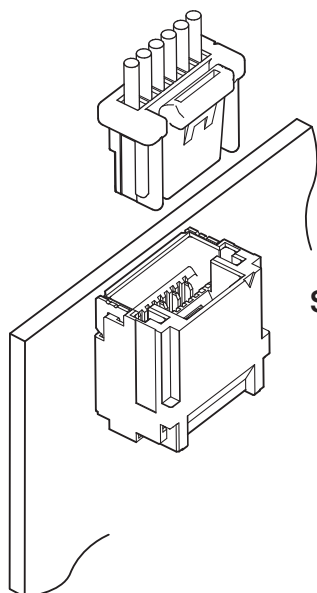
NSH CONNECTOR <Potting type connector>

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

Top entry type



Side entry type



This is a 1.0 mm pitch, wire-to-board, SMT connector designed for ingress protection against potting material on the PCB. This potting-compatible version of the NSH connector features a strong locking function and delivers a noticeable click feeling during insertion. Together with low-insertion force contacts, the NSH connector facilitates a reliable mating operation.

- Header suitable for potting process
- Secure lock mechanism
- Fully shrouded header ensures durability with a secure connection reducing the risk of stress and misalignment
- Excellent workability during mating process

■ Specifications

- Current rating: 1.0 A AC/DC (AWG #28)
- Voltage rating: 50 V AC/DC
- Temperature range: -25°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance:
Initial value/ 30 mΩ max.
After environmental tests/ 50 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage:
There shall be no breakdown or flashover while applying 500 VAC for one minute.
- Applicable wire range:
Conductor size/ AWG #32 to AWG #28
Insulation O.D./ ϕ 0.4 mm to ϕ 0.8 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

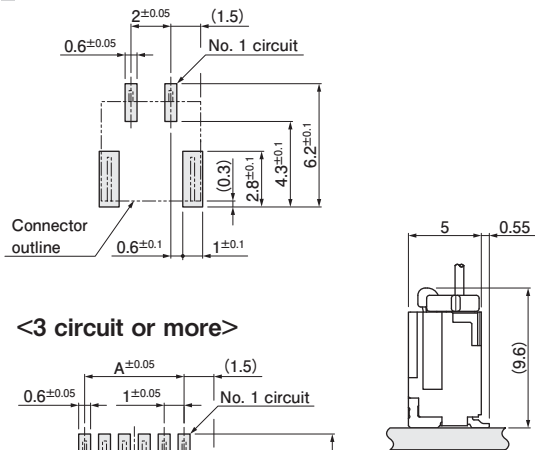
For information on overseas standard registrations, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

* Specifications registered to overseas standards may differ from the general specifications listed above.

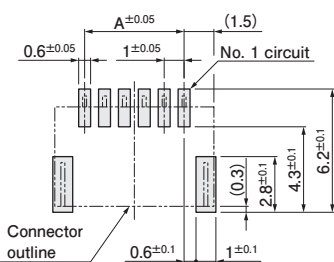
NSH CONNECTOR ‹Potting type connector›

PC board layout and Assembly layout

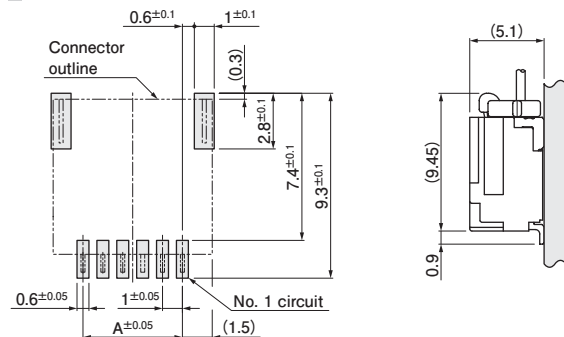
Top entry type ‹2 circuits›



‹3 circuit or more›

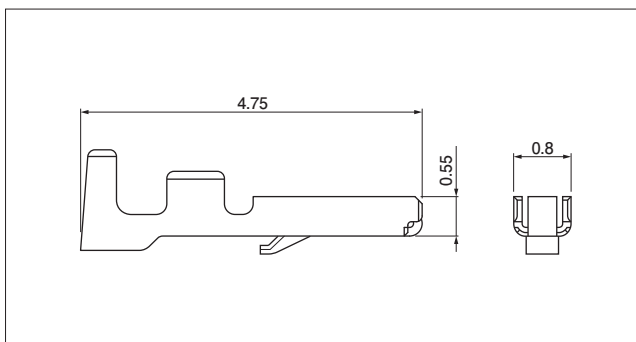


Side entry type



- Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.
 2. Dimension A: See "Header" section on page 4.
 3. Tolerance for the PCB pattern pitch shall be ± 0.05 , and shall not accumulate more than ± 0.05 .
 4. The above dimensions are reference values. Please contact JST for details.

Contact



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm ²)	Insulation O.D. (mm)	
SSHL-003T-P0.2	#32 to #28 (0.032 to 0.08)	0.4 to 0.8	41,000

Material and Surface finish, etc.

Copper alloy, tin-plated

Crimping machine

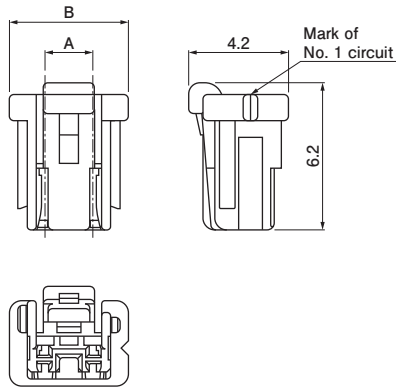
Contact	Crimping machine	Applicator	Crimp applicator with dies
SSHL-003T-P0.2	AP-K2N	MKS-L-10-3	APLMK SSH/L003-02

Note: Contact JST for fully automatic crimping applicator.

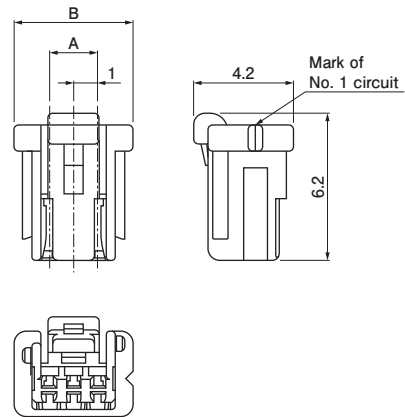
NSH CONNECTOR (Potting type connector)

Housing

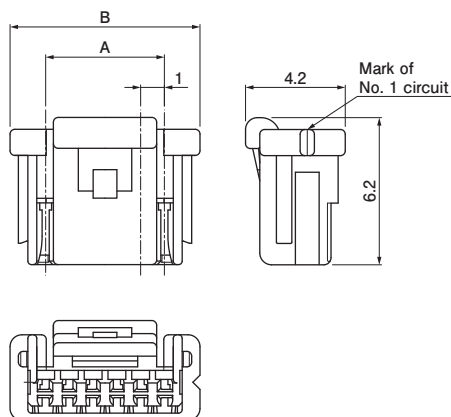
<2 circuits>



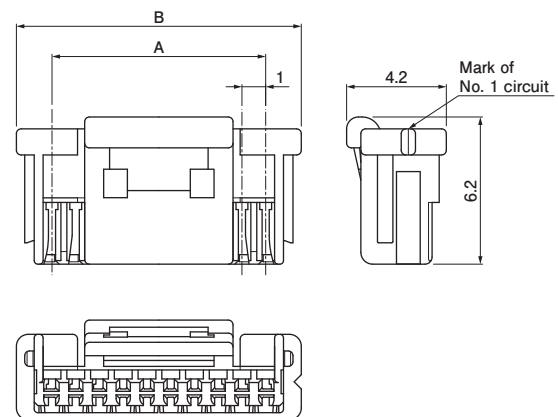
<3 circuits>



<4 to 7 circuits>



<10 circuits>



No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	NSHR-02V-S ^{Note 1)}	2.0	5.0	3,000
3	NSHR-03V-S	2.0	5.0	3,000
4	NSHR-04V-S	3.0	6.0	2,500
5	NSHR-05V-S	4.0	7.0	2,000
6	NSHR-06V-S	5.0	8.0	1,500
7	NSHR-07V-S	6.0	9.0	1,500
10	NSHR-10V-S	9.0	12.0	1,000

Material and Surface finish, etc.

PBT, natural

Note: 1. The 2 circuit version uses a 3 circuit housing with the 2nd circuit plugged up, allowing 2.0 mm pitch between circuits.

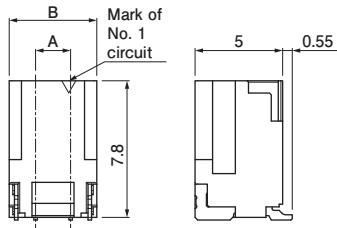
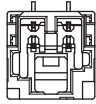
2. For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the "Technical Documents" column on the Product Information page).

NSH CONNECTOR (Potting type connector)

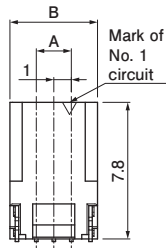
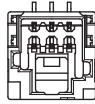
Header

Top entry type

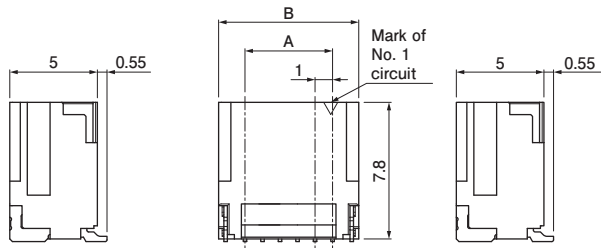
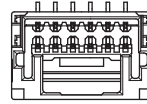
<2 circuits>



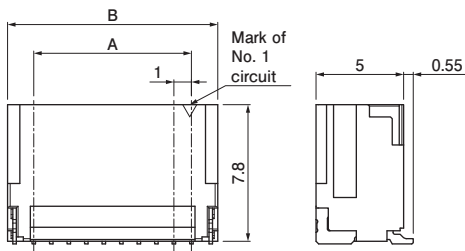
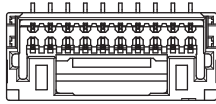
<3 circuits>



<4 to 7 circuits>

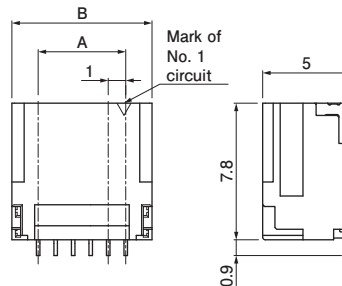
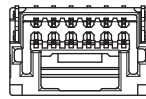


<10 circuits>



Side entry type

<6 circuits>



Top entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
2	BM02B-NSHSS-A-TB ^{Note 3)}	2.0	5.0	750
3	BM03B-NSHSS-A-TB	2.0	5.0	750
4	BM04B-NSHSS-A-TB	3.0	6.0	750
5	BM05B-NSHSS-A-TB	4.0	7.0	750
6	BM06B-NSHSS-A-TB	5.0	8.0	750
7	BM07B-NSHSS-A-TB	6.0	9.0	750
10	BM10B-NSHSS-A-TB	9.0	12.0	750

Material and Surface finish, etc.

Base contact: Copper alloy, tin-plated
Base housing: PA (Heat resistance), natural
Reinforcement: Copper alloy, tin-plated

Side entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
6	SM06B-NSHSS-A-TB	5.0	8.0	1,250

Material and Surface finish, etc.

Base contact: Copper alloy, tin-plated
Base housing: PA (Heat resistance), natural
Reinforcement: Copper alloy, tin-plated

Note: 1. This product displays (LF)(SN) on a label.

2. This product is supplied on embossed tape and reel packaging.

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).

Note: 1. This product displays (LF)(SN) on a label.

2. This product is supplied on embossed tape and reel packaging.

3. The 2 circuit version uses a 3 circuit housing with the 2nd circuit plugged up, allowing 2.0 mm pitch between circuits.

4. 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).

NSH CONNECTOR ‹Potting type connector›

Model number allocation

Contact

	S	SHL - 003	T - P	0.2
Supply form: Strip form				
Series name				
Applicable wire range: AWG #32 to AWG #28				
Surface finish: Tin-plated				
Material: Copper alloy				
Applicable contact size				

Housing

	NSH	R - 02	V - S
Series name			
Type: For receptacle contact			
No. of circuits			
Sub model number			
Color: S...Natural, TR...Tomato red			

Header

	BM	02	B - NSH	S	S - A - TB
Header type:					
BM...SMT top entry type					
SM...SMT side entry type					
No. of circuits					
Assembly product					
Series name					
Color: S...Natural, TR...Tomato red					
Sub model number					
Connector suitable for potting					
Packaging style: Embossed taping					