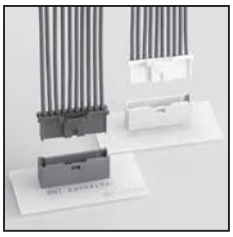
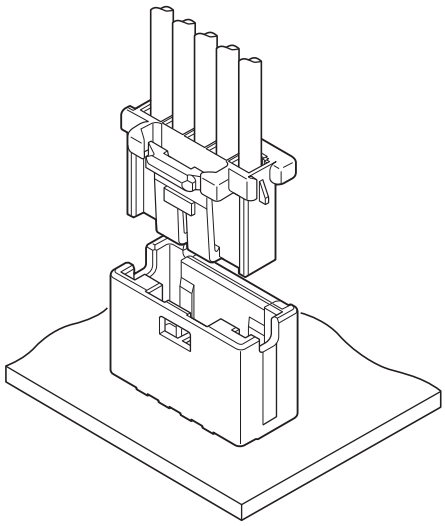


XNI CONNECTOR

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



This connector is 2.5 mm pitch wire-to-board connector that has a mechanism to prevent an incomplete mating by utilizing the inertial force when mating connector.
In all circuits of connector, controlled key for preventing mismatching of mating is added, and two type connectors can be used in the same model. (See table below.)

- Inertia lock mechanism
- Finger-friendly design
- 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 1,000 VAC for one minute.
- Applicable wire range:
  Conductor size/ AWG #30 to AWG #22
  Insulation O.D. / φ0.65 mm to φ1.7 mm

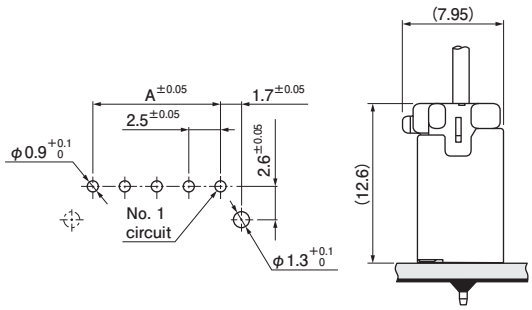
* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the “Technical Documents” column on the Product Information page) before use.
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

■ 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).

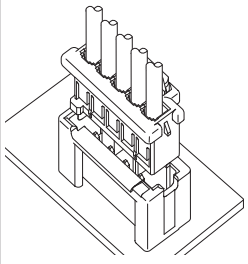
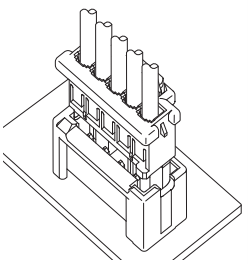
* Specifications registered to overseas standards may differ from the general specifications listed above.

PC board layout and Assembly layout

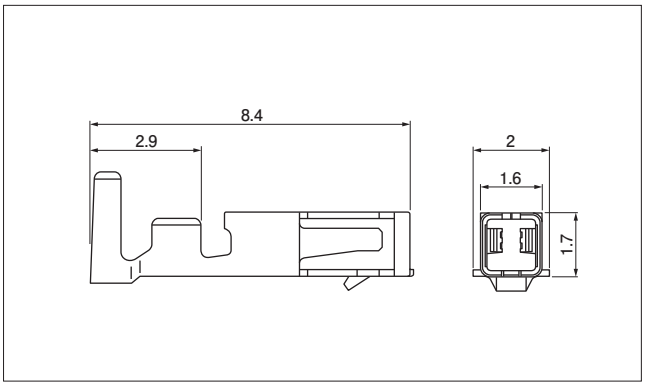


Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.
2. Dimension A: See "Header" section on page 3.
3. Tolerance for the PCB hole pitch shall be ± 0.05, and shall not accumulate more than ± 0.05.
4. Hole dimensions differ according to the type of PC board and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

List of product combinations

Resin color (Header/Housing)	Natural	Red
Key pattern	Polarizing key pattern A	Polarizing key pattern B
		
Housing Model No.	XNIRP-( )V-A-S	XNIRP-( )V-B-R
Header Model No.	B( )B-XNISK-A-1	B( )B-XNIRK-B-2

Contact



Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm2)	Insulation O.D. (mm)	
SXNI-003T-P0.6	#30 to #28 (0.05 to 0.08)	0.65 to 0.9	10,000
SXNI-001T-P0.6	#26 to #22 (0.13 to 0.33)	1.0 to 1.7	7,000

Material and Surface finish, etc.
Phosphor bronze, tin-plated

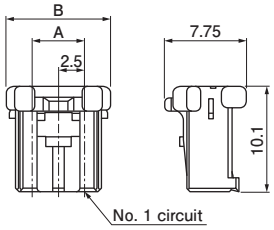
Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SXNI-003T-P0.6	AP-K2N	MKS-L	APLMK SXNI003-06
SXNI-001T-P0.6			APLMK SXNI001-06

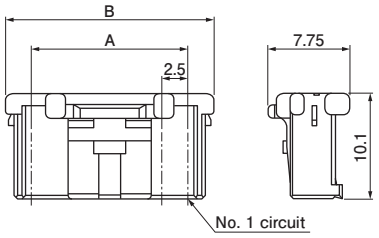
Note: Contact JST for fully automatic crimping applicator.

Housing

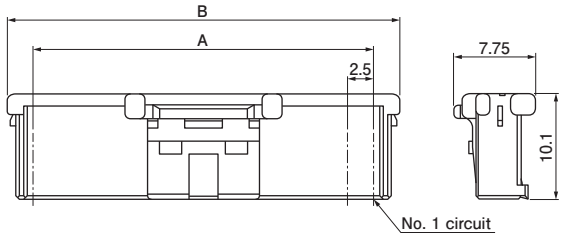
<2, 3 circuits>



<4 to 11 circuits>



<15 circuits>



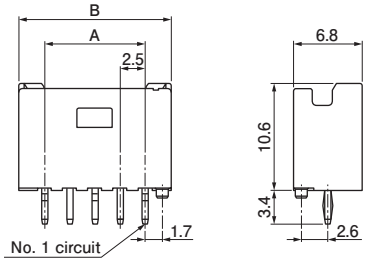
No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	**XNIRP-02V-A-S**	2.5	7.5	1,000
3	**XNIRP-03V-A-S**	5.0	10.0	1,000
4	**XNIRP-04V-A-S**	7.5	12.5	1,000
5	**XNIRP-05V-A-S**	10.0	15.0	1,000
6	**XNIRP-06V-A-S**	12.5	17.5	1,000
7	**XNIRP-07V-A-S**	15.0	20.0	1,000
8	**XNIRP-08V-A-S**	17.5	22.5	1,000
9	**XNIRP-09V-A-S**	20.0	25.0	1,000
10	**XNIRP-10V-A-S**	22.5	27.5	1,000
11	**XNIRP-11V-A-S**	25.0	30.0	500
15	**XNIRP-15V-A-S**	35.0	40.0	500

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

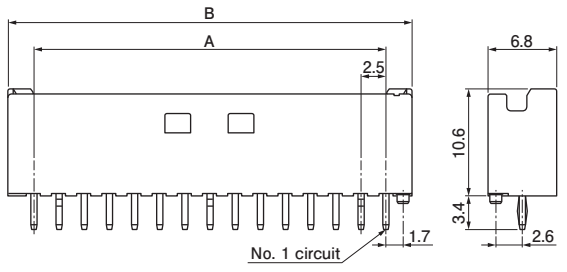
Note: For flame retardant grade of resin material used, please refer to the "List of Registered Overseas Standards" on our website (listed in the “Technical Documents” column on the Product Information page).

Header

<2 to 11 circuits>



<15 circuits>



No. of circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
2	**B02B-XNISK-A-1**	2.5	7.5	500
3	**B03B-XNISK-A-1**	5.0	10.0	500
4	**B04B-XNISK-A-1**	7.5	12.5	250
5	**B05B-XNISK-A-1**	10.0	15.0	250
6	**B06B-XNISK-A-1**	12.5	17.5	250
7	**B07B-XNISK-A-1**	15.0	20.0	200
8	**B08B-XNISK-A-1**	17.5	22.5	200
9	**B09B-XNISK-A-1**	20.0	25.0	200
10	**B10B-XNISK-A-1**	22.5	27.5	150
11	**B11B-XNISK-A-1**	25.0	30.0	150
15	**B15B-XNISK-A-1**	35.0	40.0	100

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

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

S XNI - 001 T - P 0.6

- Supply form: Strip form
- Series name
- Applicable wire range:
  003…AWG #30 to AWG #28
  001…AWG #26 to AWG #22
- Surface finish: Tin-plated
- Material: Phosphor bronze
- Applicable post size

Housing

XNI RP - 02 V - A - S

- Series name
- Type: Plug (Retainer mountable type)
- No. of circuits
- Auxiliary symbol
- Key pattern: A…Polarizing key pattern A
  B…Polarizing key pattern B
- Color: S…Natural (White), R…Red

Header

B 02 B - XNI S K - A - 1

- Header type: Top entry type
- No. of circuits
- Assembly product
- Series name
- Color: S…Natural (Ivory), R…Red
- Clinched (Kinked) / Not clinched: Clinched
- Key pattern: A…Polarizing key pattern A
  B…Polarizing key pattern B
- Presence of boss: Blank…Without boss
  1…With boss (Circuit No. 1 side)
  2…With boss (Circuit No. N side)