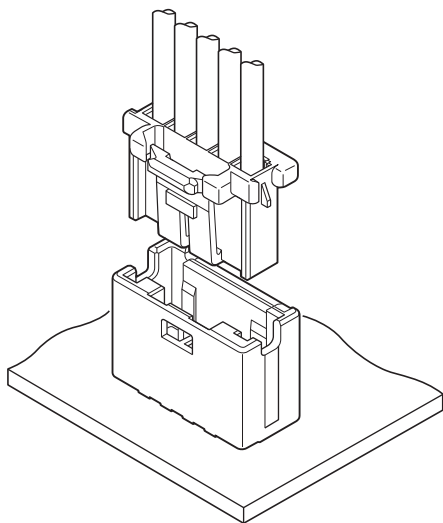


XNI CONNECTOR

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

Standards

Ⓜ : Recognized E 60389

Ⓢ : Certified LR 20812

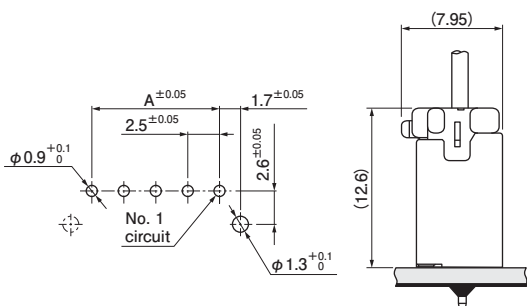
Ⓢ : J50148340

Specifications

- Current rating: 3 A AC/DC (AWG #22)
- Voltage rating: 250 V AC/DC
- Temperature range: -25°C to +85°C
(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. / ϕ 0.65 mm to ϕ 1.7 mm

- * In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
- * RoHS2 compliance
- * Dimensional unit: mm
- * Contact JST for details.

PC board layout and Assembly layout

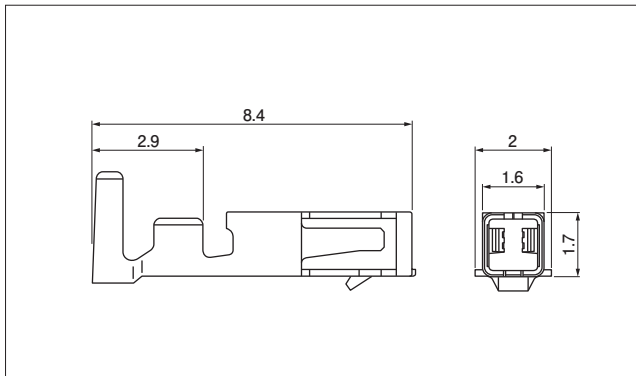


- Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.
2. Dimension A: See "Header" section on page 3.
3. Tolerance for the PCB hole pitch shall be ± 0.05 , and shall not accumulate more than ± 0.05 .
4. Hole dimensions differ according to the type of PC board 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 (mm ²)	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.

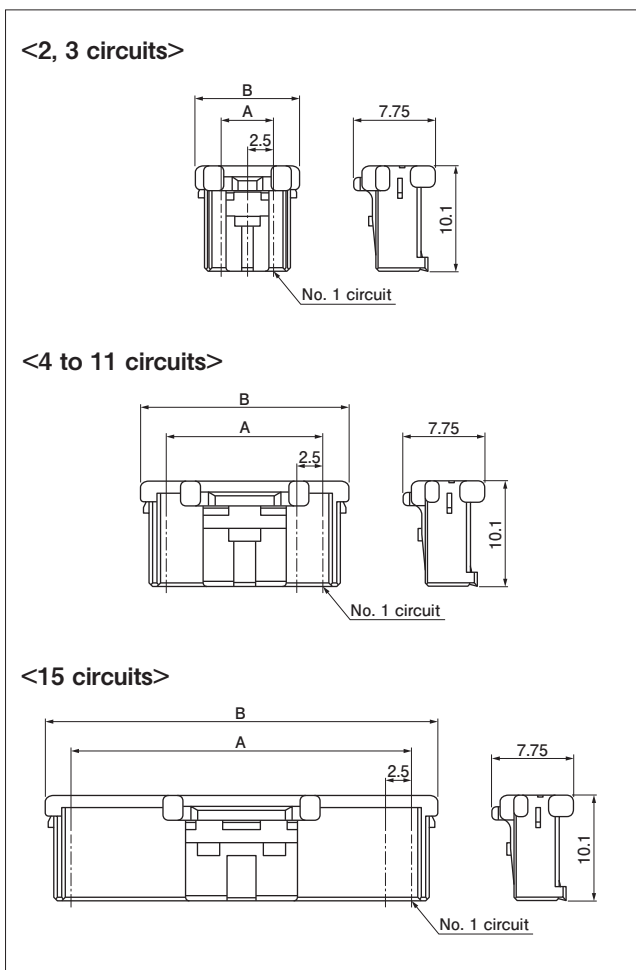
Phosphor bronze, tin-plated

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



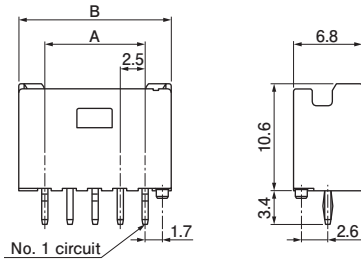
No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	XNIRP-02V-A-S	2.5	7.5	1,000
3	XNIRP-03V-A-S	5.0	10.0	1,000
4	XNIRP-04V-A-S	7.5	12.5	1,000
5	XNIRP-05V-A-S	10.0	15.0	1,000
6	XNIRP-06V-A-S	12.5	17.5	1,000
7	XNIRP-07V-A-S	15.0	20.0	1,000
8	XNIRP-08V-A-S	17.5	22.5	1,000
9	XNIRP-09V-A-S	20.0	25.0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

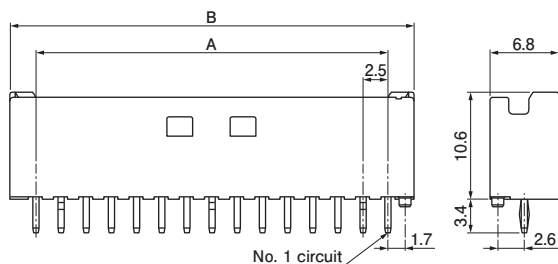
PBT (Glass-filled), UL94V-0, natural (white)

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), UL94V-0, natural (ivory)

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

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

Flammability: UL94V-0

Key pattern: A...Polarizing key pattern A

B...Polarizing key pattern B

Color: S...Natural (White), R...Red

Header

B 02 B - XNISK - 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)