



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



Highly reliable, versatile 2.5 mm pitch wire-toboard connector with an assembled board height of 9.8 mm for low profile applications.

- Original double-leaf contact design
- Box-shaped shrouded header
- Header is also available with boss
- The 4 pin version conforms to JEMA's Home Automation (HA terminal) standards.

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 m Ω max.

- Insulation resistance: 1,000 M Ω 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 0.9 mm to ϕ 1.9 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



2. Tolerance for the PCB hole pitch shall be \pm 0.05 and shall not accumulate.

3. Dimension C: See "Header/ Side entry type" section on page 4.

4. Hole dimensions differ depending on the type of PCB and PCB drilling method. When using PCB made of hard material composed of fiberglass cloth, please consider a larger hole diameter. The above dimensions are reference values. Please contact JST for details.

PC board layout and Assembly layout/ PA 66 (Glass-filled) type, Radial tape type Top entry type <2 circuits> <3 to 8 circuits> 5.75 5.75 2.5^{±0.05} <u>2.5</u> ±0.05 No. 1 ¢ No 1 $-\Theta$ \bigcirc A circuit (6.8) (8.8) circuit PA 66 (Glass-filled) type: $\phi 1^{\pm 0.05}$ R 6 Radial tape type: $\phi 0.9^{+0.1 \text{ Note } 3)}_{0}$ (Lock side) (Lock side) <9 circuits or more> 5.75 2.5^{±0.05} (8.8) No. 1 -Θ 0 \bigcirc circuit 6 $\phi 0.9^{+0}$ (Lock side)

Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.

- 2. Tolerance for the PCB hole pitch shall be \pm 0.05 and shall not accumulate.
- 3. Radial tape style packaging conforms to PCB hole diameter specifications on the automatic insertion machine.
- 4. Hole dimensions differ depending on the type of PCB and PCB drilling method.

When using PCB made of hard material composed of fiberglass cloth with glass-filled PA 66,

please consider a larger hole diameter.

The above dimensions are reference values. Please contact JST for details.

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PC board layout and Assembly layout/ SMT type

Side entry type



Note: 1. The PC board layout figure shown is viewed from the connector mounting surface.

- 2. Tolerance for the PCB pattern pitch shall be \pm 0.05 and shall not accumulate.
- 3. The above dimensions are reference values. Please contact JST for details.

Contact



Shape		Applicable wire	range	0.4.7
	Model No.	Conductor size AWG (mm ²)	Insulation O.D. (mm)	Q'ty/ reel
Α	SXH-001T-P0.6N	#26 to #22 (0.13 to 0.33)	1.3 to 1.9	5,000
В	SXH-002T-P0.6	#30 to #26 (0.05 to 0.13)	0.9 to 1.3	0.000
	SXH-001T-P0.6	#28 to #22 (0.08 to 0.33)	0.9 to 1.9	8,000

Material and Surface finish, etc.

Phosphor bronze, tin-plated

Note: 1. Contact JST for gold-plated products.

Contact JST also if you require shielded wires, thin wires or other special wires.

 SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration.

Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies	
SXH-001T-P0.6N			APLMK SXH001-06N	
SXH-002T-P0.6	AP-K2N	MKS-L	APLMK SXH002-06	
SXH-001T-P0.6			APLMK SXH001-06	
	1		1	

Note: Contact JST for fully automatic crimping applicator.

Housing



No. of	Model No.	Dimensi	Dimensions (mm)		
circuits	Model No.	A	В	Q'ty/bag	
1	XHP-1	-	4.8	1,000	
2	XHP-2	2.5	7.3	1,000	
Note 1) 2	XHP-2(10.0)-U	10.0	14.8	1,000	
3	XHP-3	5.0	9.8	1,000	
4	XHP-4	7.5	12.3	1,000	
5	XHP-5	10.0	14.8	1,000	
6	XHP-6	12.5	17.3	1,000	
Note 2) 6	XHP-6(5.0)-U	25.0	29.8	1,000	
7	XHP-7	15.0	19.8	1,000	
8	XHP-8	17.5	22.3	1,000	
9	XHP-9	20.0	24.8	1,000	
10	XHP-10	22.5	27.3	1,000	
11	XHP-11	25.0	29.8	1,000	
12	XHP-12	27.5	32.3	1,000	
13	XHP-13	30.0	34.8	1,000	
14	XHP-14	32.5	37.3	1,000	
15	XHP-15	35.0	39.8	1,000	
16	XHP-16	37.5	42.3	1,000	
20	XHP-20	47.5	52.3	500	

Material and Surface finish, etc.

PA 6, natural (white)

- Note: 1. XHP-2(10.0)-U means the 2-circuits housing with 10.0 mm pitch, and 3-circuits of 5-circuits are filled with the resin.
 - 2. XHP-6 (5.0) -U means the 6-circuits housing with 5.0 mm pitch and each even number circuit is filled with the resin.
 - 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



Top entry type

No. of circuits	Model	No.	Dimensions (mm)		Q'ty/box	
	Without boss	With boss	A	В	Without boss	With boss
1	-	B1B-XH-AM	-	4.9	_	1,000
2	B2B-XH-A	B2B-XH-AM	2.5	7.4	1,000	1,000
2	B2 (10.0) B-XH-A-U Note2)	—	10.0	14.9	1,000	_
3	B3B-XH-A	B3B-XH-AM	5.0	9.9	1,000	1,000
4	B4B-XH-A	B4B-XH-AM	7.5	12.4	500	500
5	B5B-XH-A	B5B-XH-AM	10.0	14.9	500	500
6	B6B-XH-A	B6B-XH-AM	12.5	17.4	500	500
7	B7B-XH-A	B7B-XH-AM	15.0	19.9	500	500
8	B8B-XH-A	B8B-XH-AM	17.5	22.4	250	250
9	B9B-XH-A	B9B-XH-AM	20.0	24.9	250	250
10	B10B-XH-A	B10B-XH-AM	22.5	27.4	250	250
11	B11B-XH-A	_	25.0	29.9	250	_
12	B12B-XH-A	B12B-XH-AM	27.5	32.4	250	250
13	B13B-XH-A	_	30.0	34.9	250	_
14	B14B-XH-A	_	32.5	37.4	250	_
15	B15B-XH-A	_	35.0	39.9	250	_
16	B16B-XH-A	_	37.5	42.4	200	_
20	B20B-XH-A	_	47.5	52.4	100	_

Material and Surface finish, etc.

Post: Brass, copper-undercoated, tin-plated Wafer: PA 66, natural (white)

- Note: 1. This product displays (LF)(SN) on a label.
 - 2. B2 (10.0) B-XH-A-U means the 2-circuits housing with 10.0 mm pitch, and 3-circuits of 5-circuits are filled with the resin.
 - 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).

Side entry type

No. of	Model No.		Dimensio	O'thu //h ave	
circuits	C: 9.2 (mm)	C: 7.6 (mm)	A	В	Q'ty/box
2	S2B-XH-A	S2B-XH-A-1	2.5	7.4	1,000
3	S3B-XH-A	S3B-XH-A-1	5.0	9.9	1,000
4	S4B-XH-A	S4B-XH-A-1	7.5	12.4	500
5	S5B-XH-A	S5B-XH-A-1	10.0	14.9	500
6	S6B-XH-A	S6B-XH-A-1	12.5	17.4	500
7	S7B-XH-A	S7B-XH-A-1	15.0	19.9	250
8	S8B-XH-A	S8B-XH-A-1	17.5	22.4	250
9	S9B-XH-A	S9B-XH-A-1	20.0	24.9	250
10	S10B-XH-A	S10B-XH-A-1	22.5	27.4	250
11	S11B-XH-A	S11B-XH-A-1	25.0	29.9	250
12	S12B-XH-A	S12B-XH-A-1	27.5	32.4	200
13	S13B-XH-A	S13B-XH-A-1	30.0	34.9	200
14	S14B-XH-A	S14B-XH-A-1	32.5	37.4	200
15	S15B-XH-A	S15B-XH-A-1	35.0	39.9	100
16	S16B-XH-A	_	37.5	42.4	100

Material and Surface finish, etc.

Post: Brass, copper-undercoated, tin-plated Wafer: PA 66, natural (white)

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

 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/ PA 66 (Glass-filled) type



No. of	Model No.	Dimensio	O' thu //h and			
circuits		А	В	Q'ty/box		
2	B2B-XH-2	2.5	7.4	1,000		
3	B3B-XH-2	5.0	9.9	1,000		
4	B4B-XH-2	7.5	12.4	500		
5	B5B-XH-2	10.0	14.9	500		
6	B6B-XH-2	12.5	17.4	500		
7	B7B-XH-2	15.0	19.9	500		
8	B8B-XH-2	17.5	22.4	250		
9	B9B-XH-2	20.0	24.9	250		
10	B10B-XH-2	22.5	27.4	250		
11	B11B-XH-2	25.0	29.9	250		
12	B12B-XH-2	27.5	32.4	250		
13	B13B-XH-2	30.0	34.9	250		
14	B14B-XH-2	32.5	37.4	250		
15	B15B-XH-2	35.0	39.9	250		
Material and Surface finish ato						

Material and Surface finish, etc.

Post: Brass, copper-undercoated, tin-plated Wafer: PA 66 (Glass-filled), natural (ivory)

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

 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/ SMT type



No. of	Model No.	Dimensio	0'++/****	
circuits		А	В	Q'ty/reel
3	S3B-XH-SM4-TB	5.0	12.5	500
4	S4B-XH-SM4-TB	7.5	15.0	500
6	S6B-XH-SM4-TB	12.5	20.0	500

Material and Surface finish, etc.

Post: Copper alloy, copper-undercoated, tin-plated Wafer: Modified PA 6T, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated

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

 This product is supplied on embossed tape and reel packaging.
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/ Radial tape type



No. of	Model No.		Dimensions (mm)		O'hu /h au
circuits	PA 66 type	PA 66 (Glass-filled) type	А	В	Q'ty/box
2	_	B2B-XH-2-TV4	_	_	1,000
3	B3B-XH-TV4	B3B-XH-2-TV4	5.0	9.9	1,000
4	B4B-XH-TV4	B4B-XH-2-TV4	7.5	12.4	500
5	-	B5B-XH-2-TV4	10.0	14.9	500
6	-	B6B-XH-2-TV4	12.5	17.4	500
7	-	B7B-XH-2-TV4	15.0	19.9	500
8	-	B8B-XH-2-TV4	17.5	22.4	500

Material and Surface finish, etc.

Post: Brass, copper-undercoated, tin-plated

Wafer: PA 66 type/ PA 66, natural (white)

PA 66 (Glass-filled) type/ 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).

Taping specifications



Note: Conforms to IEC 60286-2 (JIC C 0806-2) "Tape packaging of components with unidirectional leads on continuous tapes".

Packaging specifications



2, 3 circuits Quantity per package 4 to 8 circuits 500 pcs./box Note: Products of different packaging specifications are also available.

1.000 pcs./box

Contact JST for details.

Model number allocation

Contact



Housing



Model number allocation

Housing/ Plugged up hole





Header/ Plugged up hole







Header/ PA 66 (Glass-filled) type

Color: No indication…Natural (Ivory), C…Black, R…Red, E…Blue, Y…Yellow, M…Green

Header/ Radial tape type



Header/ SMT type



