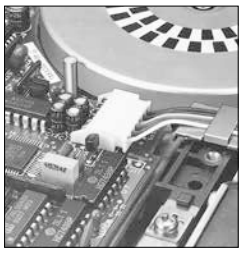
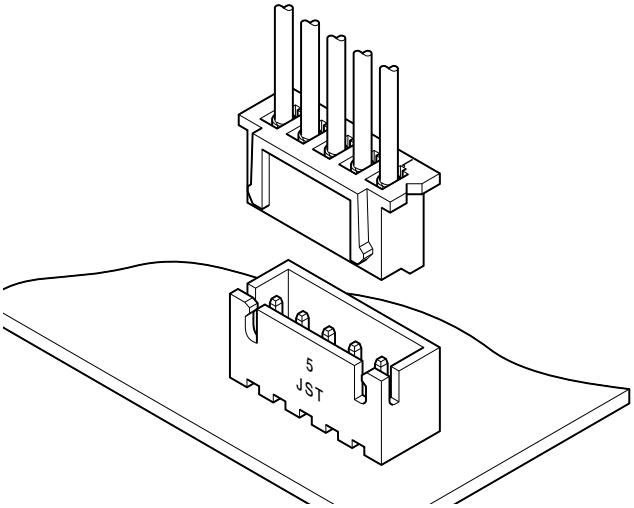


XH CONNECTOR

Emboss Tape | Radial Tape

2.5 mm pitch/Disconnectable Crimp style connectors



The XH connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with a mounting height of 9.8 mm.

- **Original folded beam contact**
- **Box-shaped shrouded header**
- **Header with a boss**
- **Interchangeability**
- **Conforming to the HA terminal**

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: 1,000 VAC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6 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.

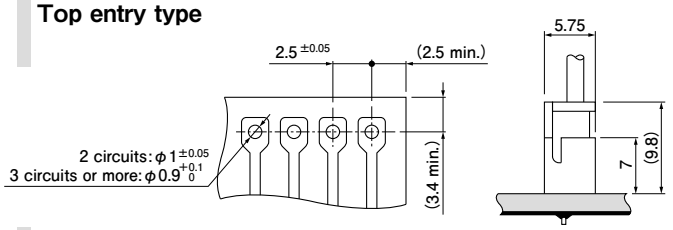
Standards

Recognized E60389
J50014297

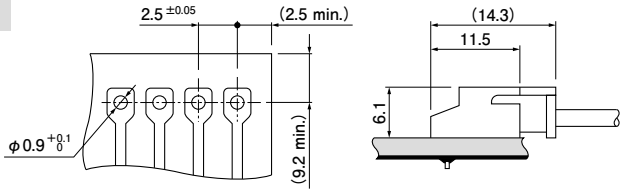
PC board layout and Assembly layout

〈Through-hole type (viewed from soldening side)〉

Top entry type

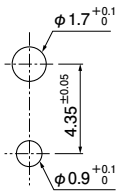


Side entry type

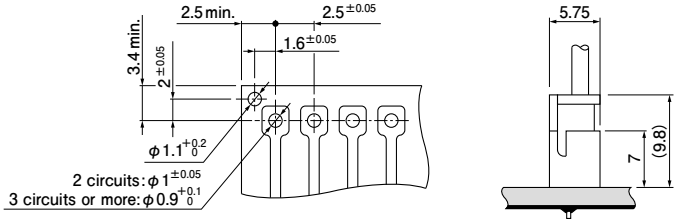


Top entry type with a boss

<Single circuit>



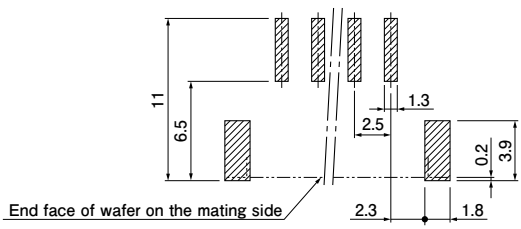
<2 circuits or more>



Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from connector mounting side)〉

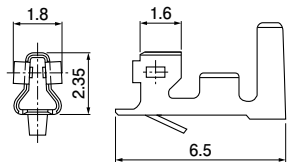
Side entry type



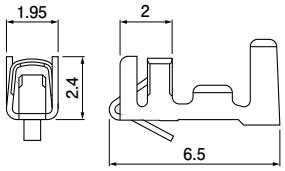
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact

● Shape A



● Shape B



Model No.	Shape	Applicable Wire		Insulation O.D (mm)	Q'ty/ reel
		mm²	AWG#		
SXH-001T-P0.6N	A	0.13 to 0.33	26 to 22	1.3 to 1.9	5,000
SXH-001T-P0.6	B	0.08 to 0.33	28 to 22	0.9 to 1.9	8,000
SXH-002T-P0.6		0.05 to 0.13	30 to 26	0.9 to 1.3	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

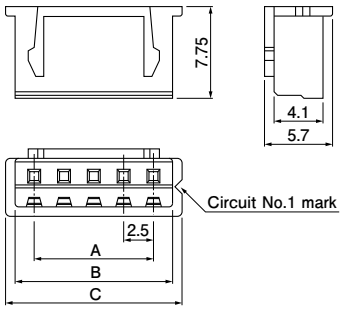
RoHS2 compliance

Note:
1. Contact JST if you require gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.
3. SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration.

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

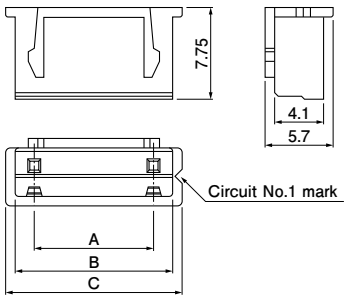
Note: Contact JST for fully automatic crimping applicator.

Housing

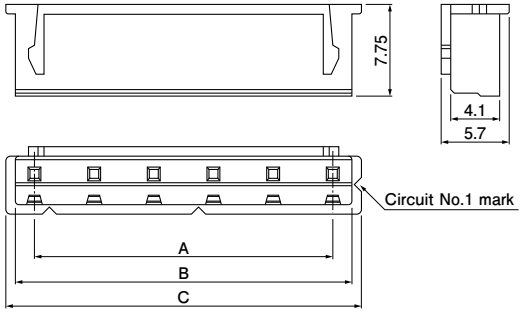


● Plugged up

<2 circuits 10.0 mm pitch>



<6 circuits 5.0 mm pitch>



No. of circuits	Model No.	Dimensions (mm)			Q'ty/ bag
		A	B	C	
1	XHP-1	—	3.2	4.8	1,000
2	XHP-2	2.5	5.7	7.3	1,000
2	Note1) XHP-2(10.0)-U	10.0	13.2	14.8	1,000
3	XHP-3	5.0	8.2	9.8	1,000
4	XHP-4	7.5	10.7	12.3	1,000
5	XHP-5	10.0	13.2	14.8	1,000
6	XHP-6	12.5	15.7	17.3	1,000
6	Note2) XHP-6(5.0)-U	25.0	28.2	29.8	1,000
7	XHP-7	15.0	18.2	19.8	1,000
8	XHP-8	17.5	20.7	22.3	1,000
9	XHP-9	20.0	23.2	24.8	1,000
10	XHP-10	22.5	25.7	27.3	1,000
11	XHP-11	25.0	28.2	29.8	1,000
12	XHP-12	27.5	30.7	32.3	1,000
13	XHP-13	30.0	33.2	34.8	1,000
14	XHP-14	32.5	35.7	37.3	1,000
15	XHP-15	35.0	38.2	39.8	1,000
16	XHP-16	37.5	40.7	42.3	1,000
20	XHP-20	47.5	50.7	52.3	500

Material and Finish
PA 6, UL94V-0, natural (white)

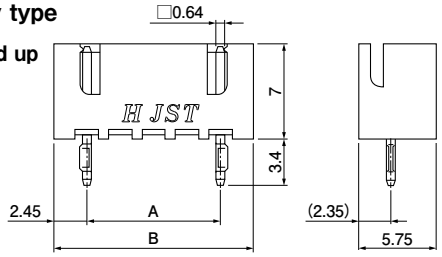
RoHS2 compliance

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.
Unlisted in UL/TÜV.
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.
Unlisted in UL/TÜV.

Header

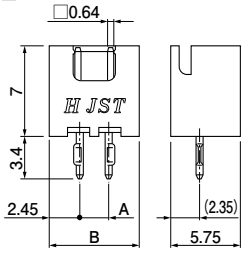
Top entry type

● plugged up

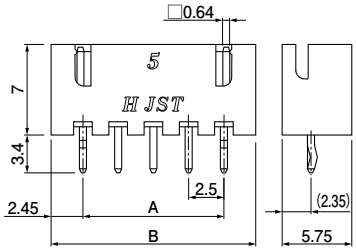


Top entry type

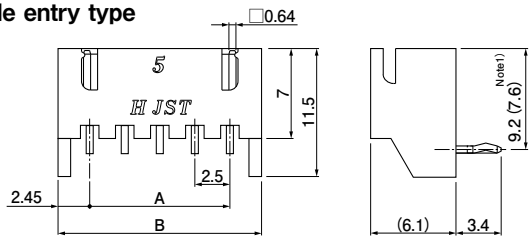
<2 circuits>



<3 circuits or more>



Side entry type



No. of circuits	Model No.			Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type		A	B	Top entry type	Side entry type
2	B2B-XH-A	S2B-XH-A-1	S2B-XH-A	2.5	7.4	1,000	1,000
Note2) 2	B2(10.0)B-XH-A-U	—	—	10.0	14.9	1,000	—
3	B3B-XH-A	S3B-XH-A-1	S3B-XH-A	5.0	9.9	1,000	1,000
4	B4B-XH-A	S4B-XH-A-1	S4B-XH-A	7.5	12.4	500	500
5	B5B-XH-A	S5B-XH-A-1	S5B-XH-A	10.0	14.9	500	500
6	B6B-XH-A	S6B-XH-A-1	S6B-XH-A	12.5	17.4	500	500
7	B7B-XH-A	S7B-XH-A-1	S7B-XH-A	15.0	19.9	500	250
8	B8B-XH-A	S8B-XH-A-1	S8B-XH-A	17.5	22.4	250	250
9	B9B-XH-A	S9B-XH-A-1	S9B-XH-A	20.0	24.9	250	250
10	B10B-XH-A	S10B-XH-A-1	S10B-XH-A	22.5	27.4	250	250
11	B11B-XH-A	S11B-XH-A-1	S11B-XH-A	25.0	29.9	250	250
12	B12B-XH-A	S12B-XH-A-1	S12B-XH-A	27.5	32.4	250	200
13	B13B-XH-A	S13B-XH-A-1	S13B-XH-A	30.0	34.9	250	200
14	B14B-XH-A	S14B-XH-A-1	S14B-XH-A	32.5	37.4	250	200
15	B15B-XH-A	S15B-XH-A-1	S15B-XH-A	35.0	39.9	250	100
16	B16B-XH-A	—	S16B-XH-A	37.5	42.4	200	100
20	B20B-XH-A	—	—	47.5	52.4	100	—

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF)(SN) on a label.

Note: 1. Side entry type 2 to 15 circuits with a size of 7.6 mm from the end face of the mating part to the post for mounting the PC board are also available. For ordering, please add "-1" to the end of the above model number.

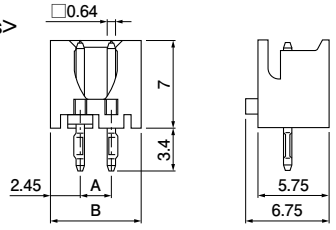
2. B2(10.0)B-XH-A-U means the 2-circuits header with 10.0 mm pitch, and 3 holes of 5-circuit housing among posts are plugged up. (Unlisted in UL/TÜV.)

3. Headers are interchangeable with those of the NR and NRD insulation displacement connector, and JQ board-to-board connector

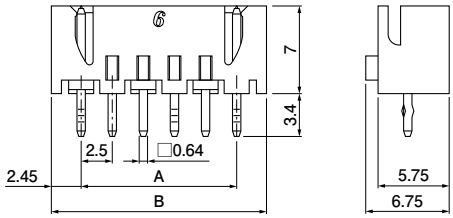
Header

Top entry type of glass-filled nylon

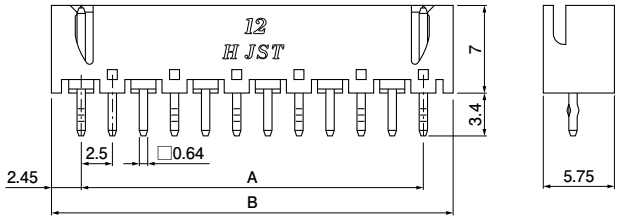
<2 circuits>



<3 to 8 circuits>



<9 circuits or more>



No. of circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
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 Finish

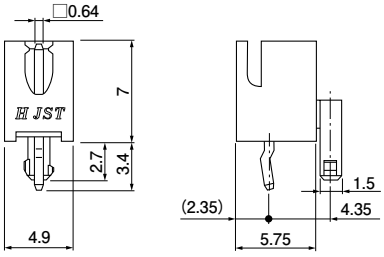
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS2 compliance This product displays (LF)(SN) on a label.

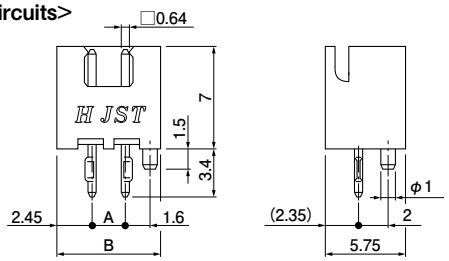
Header

Top entry type with a boss

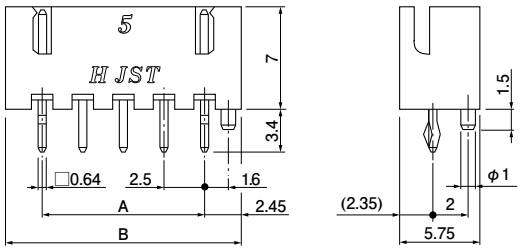
<1 circuit>



<2 circuits>



<3 circuits or more>



No. of circuits	Model No.	Dimensions (mm)		Q'ty/ box
		A	B	
1	*B1B-XH-AM	—	—	1,000
2	B2B-XH-AM	2.5	7.4	1,000
3	B3B-XH-AM	5.0	9.9	1,000
4	B4B-XH-AM	7.5	12.4	500
5	B5B-XH-AM	10.0	14.9	500
6	B6B-XH-AM	12.5	17.4	500
7	B7B-XH-AM	15.0	19.9	500
8	B8B-XH-AM	17.5	22.4	250
9	B9B-XH-AM	20.0	24.9	250
10	B10B-XH-AM	22.5	27.4	250
12	B12B-XH-AM	27.5	32.4	250

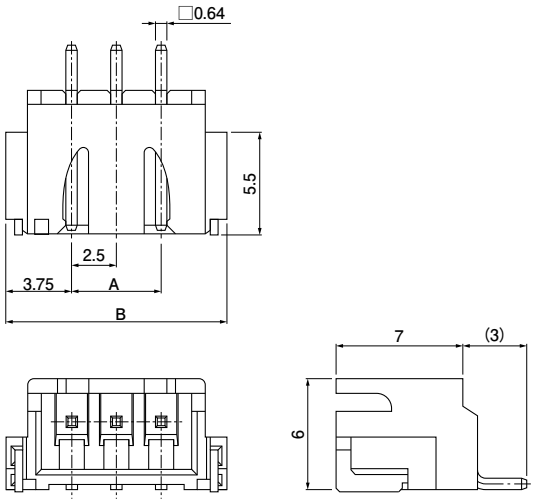
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF)(SN) on a label.

Note: 1. Headers are interchangeable with those of the NR and NRD insulation displacement connector, and JQ board-to-board connector.

2. *Marked products are unlisted in UL/TÜV.

Header (SMT type)



No. of circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
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

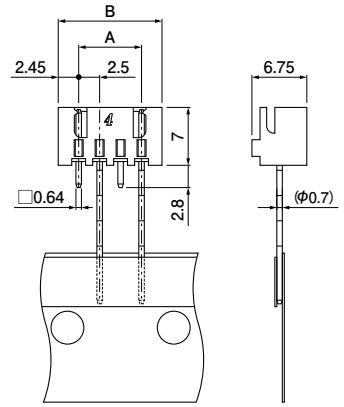
Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 6T, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS2 compliance This product displays (LF)(SN) on a label.

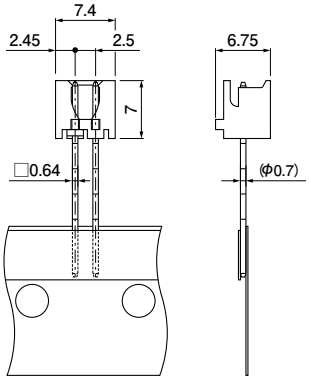
Note: The products listed above are supplied on embossed-tape.

Header on radial-tape

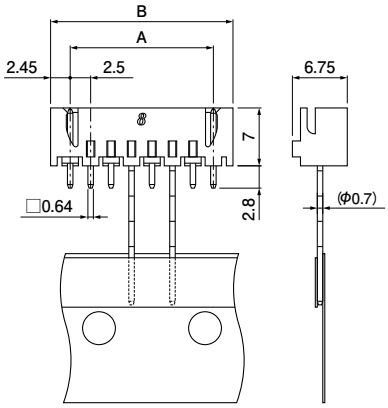
TV4 type
<3 to 4 circuits>



2-TV4 type
<2 circuits>



2-TV4 type
<3 to 8 circuits>

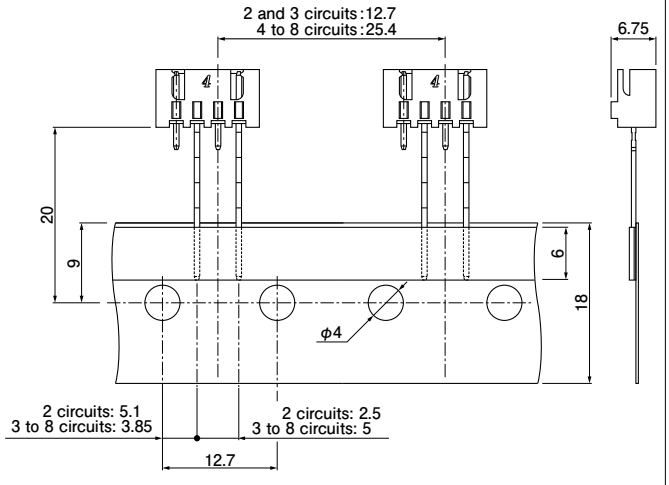


No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	TV4	2-TV4	A	B	
2	—	B2B-XH-2-TV4	—	—	1,000
3	B3B-XH-TV4	B3B-XH-2-TV4	5.0	9.9	1,000
4	B4B-XH-TV4	B4B-XH-2-TV4	7.5	12.4	500
5	—	B5B-XH-2-TV4	10.0	14.9	500
6	—	B6B-XH-2-TV4	12.5	17.4	500
7	—	B7B-XH-2-TV4	15.0	19.9	500
8	—	B8B-XH-2-TV4	17.5	22.4	500

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: TV4 type/ PA 66, UL94V-0, natural (white) 2-TV4 type/ Glass-filled PA 66, UL94V-0, natural (ivory)

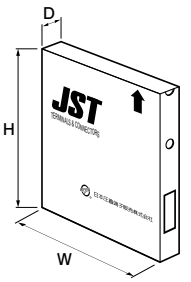
RoHS2 compliance This product displays (LF)(SN) on a label.
Note: Unlisted in UL/TÜV.

Taping specification

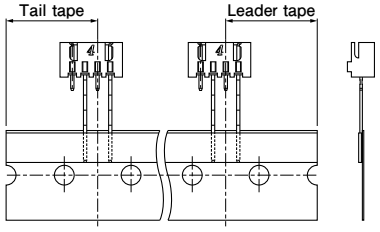


Note: Conforms to JIC C 0806 of "Tape packaging of components with unidirectional leads on continuous tapes".

Packaging specifications



Distance between the end of the tape and the first connector's center line (either end)

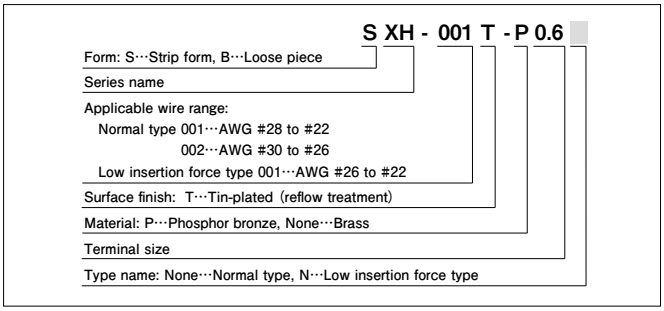


Package type		Flat pack (zigzag folded)
Distance between folds		24 indexing holes per fold (304.8 mm)
Box size		316 (W) × 45 (D) × 330 (H) mm
Distance between the end of the tape and the first connector's center line (either end)		19.05 mm
Quantity	2, 3 circuits	1,000 pcs./box
	4 to 8 circuits	500 pcs./box

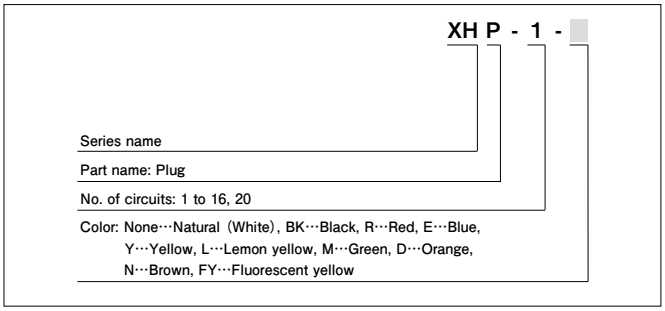
Note: Products of different packaging specifications are also available. Contact JST for details.

Model number allocation

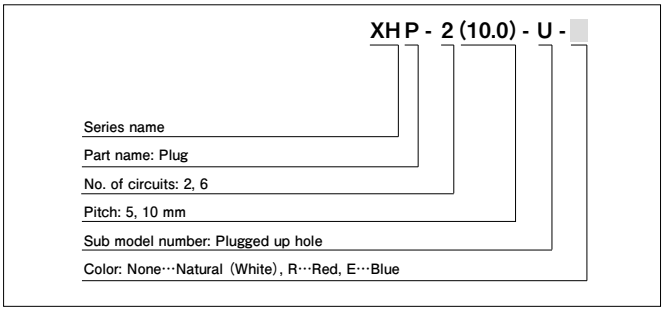
Contact



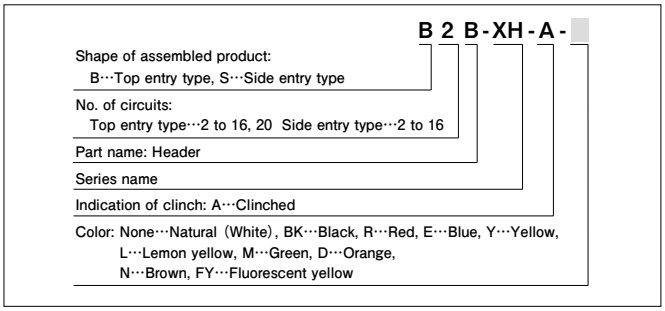
Housing



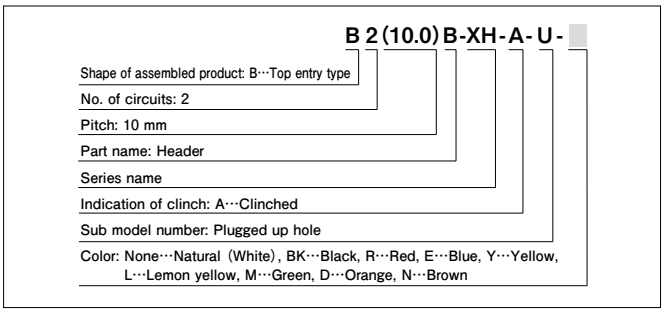
Housing with plugged up hole



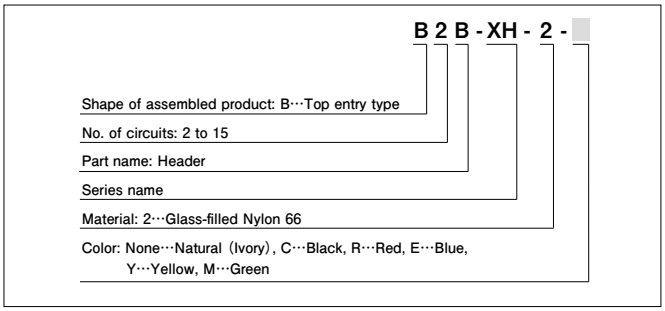
Header



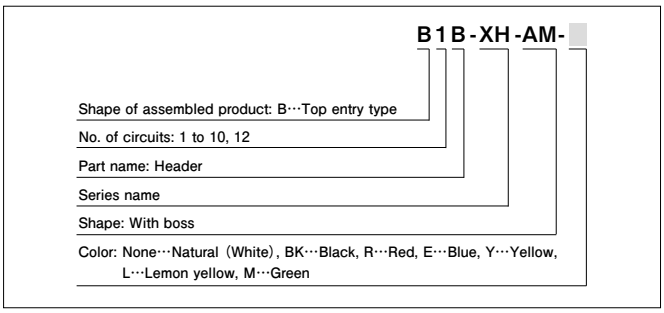
Header with plugged up hole



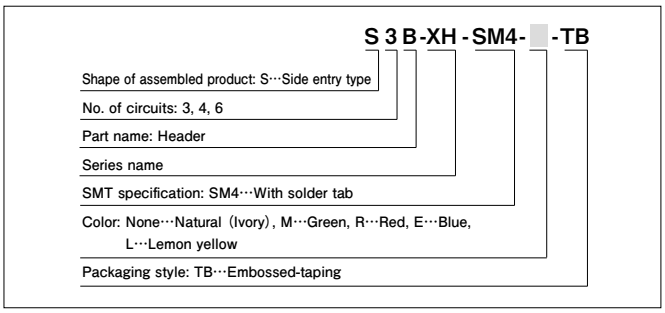
Header (Glass-filled Nylon)



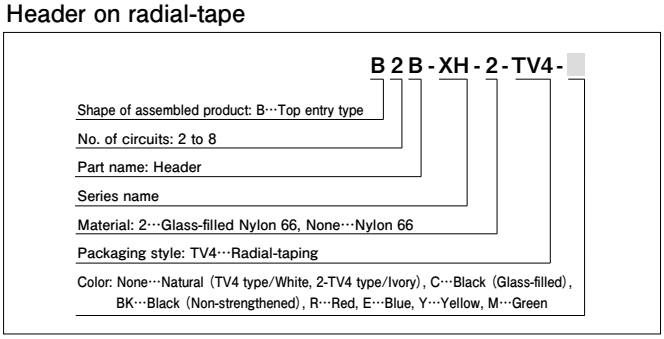
Header (Top entry type with boss)



Header (SMT type)



Header on radial-tape



Note: Depending on the colors, it may take some time for delivery.