

J.S.T. Connector's Web Site

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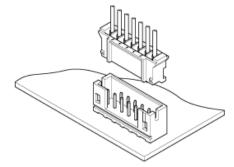
PH connector



It is designed to meet the demand for the high-density connection of internal wires to PC boards.

It is compact, highly reliable and low in cost.

Product Prof	le
Series	PH connector
Category	Crimp Style Connectors (Wire-to-Board type)
Туре	Disconnectable type Crimp style, Thin type



Specification	
Pitch	2.0 mm
Current rating	2A (AWG#24)
Voltage rating	100V
PC board mounting direction	Top entry, Side entry



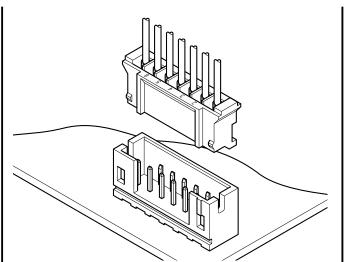


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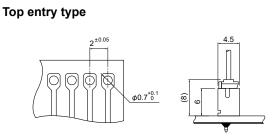


This is a thin, low-profile 2.0 mm pitch connector 8.0 mm in height after mounting and 4.5 mm in width. It is designed to meet the demand for high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- Reliable contact
- Fully shrouded header
- Printed circuit board retention mechanism
- Surface mount model (SMT)

PC board layout and Assembly layout

(Through-hole type (viewed from soldering side) >



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.

SM4 type

1 min

1.5^{±0.1}

Side entry type

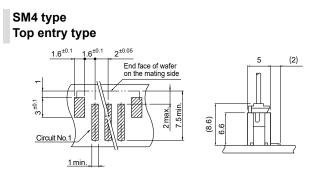
a±0.05

End face of wafer on the mating side

Circuit No.1

min

\langle SMT type (viewed from component side) \rangle



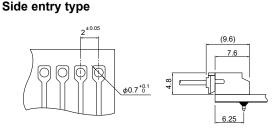
Note: 1. Tolerances are non-cumulative: ±0.05 mm for all centers. 2. The dimensions above should serve as a guideline. Contact JST for details.

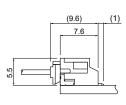
Specifications —

- Current rating: 2 A AC/DC (AWG #24)
- Voltage rating: 100 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 mQ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 800 VAC/ minute
- Applicable wire: AWG #32 to #24
- Applicable PC board thickness: 0.8 to 1.6 mm
- * In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
- * Contact JST for details.
- * RoHS2 compliance

Standards -

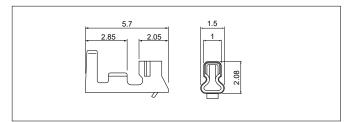
- Recognized E60389
- A R75087





PH CONNECTOR

Contact



Contact	Crimping	Applicator				
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies		
SPH-002T-P0.5S		MKS-L	MK/SPH-002-05S	APLMK SPH002-05S		
SPH-002T-P0.5L	AP-K2N	WIK3-L	MK/SPH-002-05L	APLMK SPH002-05L		
SPH-004T-P0.5S		MKS-L-10	MK/SPH-002-05S	APLMK SPH004-05S		

Model No.	Applicable wire			
Model No.	mm ²	AWG #	Insulation O.D. (mm)	reel
SPH-002T-P0.5S	$0.05 \sim 0.22$	30~24	0.8~1.5	8.000
SPH-002T-P0.5L	$0.08 \sim 0.22$	28~24	0.8~1.5	8,000
SPH-004T-P0.5S	0.032~0.08	32~28	0.5~0.9	10,000
	Materia	al and Finish		

Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

Note:

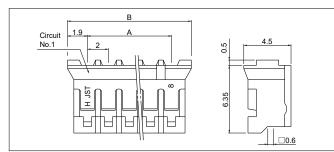
1. Contact JST for gold-plated products.

2. SPH-002T-P0.5L is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard.

3. Contact JST for details.

Note: Contact JST for fully automatic crimping applicator.

Housing



<For reference> As the color identification,

the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. PHR-2-00

(blank)...natural (white)

BK...black R...red TR...tomato red BL...blue Y...yellow

L...lemon yellow M...green D...orange N...brown

P...purple PK...pink H...gray LE...light blue

FY...vivid yellow DPK...dark pink

Through-hole type Header

Top entry type	
(2 circuits) (3 c	(3 circuits or more)
	B 1.7 0 1.7 0 0 0 0 0 0 0 0 0 0 0 0 0
1.95	□0.5 Circuit ♀ 3.4 No.1

No. of	Model No.	Dimens	Dimensions (mm)			
circuits	Wodel No.	A	В	Q'ty/ box		
2	PHR-2	2.0	5.8	1,000		
3	PHR-3	4.0	7.8	1,000		
4	PHR-4	6.0	9.8	1,000		
5	PHR-5	8.0	11.8	1,000		
6	PHR-6	10.0	13.8	1,000		
7	PHR-7	12.0	15.8	1,000		
8	PHR-8	14.0	17.8	1,000		
9	PHR-9	16.0	19.8	1,000		
10	PHR-10	18.0	21.8	1,000		
11	PHR-11	20.0	23.8	1,000		
12	PHR-12	22.0	25.8	1,000		
13	PHR-13	24.0	27.8	1,000		
14	PHR-14	26.0	29.8	1,000		
15	PHR-15	28.0	31.8	1,000		
16	PHR-16	30.0	33.8	1,000		

aterial and Finish PA 66, UL94V-0, natural (white)

RoHS2 compliance

No. of	Model No.		Dimensions (mm)		Q'ty/box	
circuits	Top entry type	Side entry type	Α	В	Top entry type	Side entry type
2	B2B-PH-K-S	S2B-PH-K-S	2.0	5.9	1,000	1,000
3	B3B-PH-K-S	S3B-PH-K-S	4.0	7.9	1,000	1,000
4	B4B-PH-K-S	S4B-PH-K-S	6.0	9.9	1,000	500
5	B5B-PH-K-S	S5B-PH-K-S	8.0	11.9	1,000	500
6	B6B-PH-K-S	S6B-PH-K-S	10.0	13.9	1,000	500
7	B7B-PH-K-S	S7B-PH-K-S	12.0	15.9	500	500
8	B8B-PH-K-S	S8B-PH-K-S	14.0	17.9	500	250
9	B9B-PH-K-S	S9B-PH-K-S	16.0	19.9	500	250
10	B10B-PH-K-S	S10B-PH-K-S	18.0	21.9	500	250
11	B11B-PH-K-S	S11B-PH-K-S	20.0	23.9	500	250
12	B12B-PH-K-S	S12B-PH-K-S	22.0	25.9	400	250
13	B13B-PH-K-S	S13B-PH-K-S	24.0	27.9	250	250
14	B14B-PH-K-S	S14B-PH-K-S	26.0	29.9	250	250
15	B15B-PH-K-S	S15B-PH-K-S	28.0	31.9	250	200
16	B16B-PH-K-S	S16B-PH-K-S	30.0	33.9	250	200

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.

<For reference> As the color identification,

the following alphabet shall be put in the underlined part.

For availability, delivery and minimum order quantity, contact JST. ex. **B2B-PH-K-**00

S...natural (white)

K...black R...red TR...tomato red

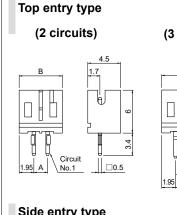
E...blue Y...yellow L...lemon yellow M...green

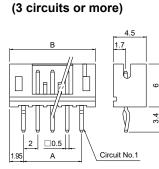
O...orange N...brown P...purple PK...pink H...gray

LE...light blue FY...vivid yellow (blank)...ivory

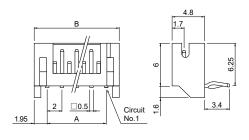
PH CONNECTOR

Through-hole type Header (Low insertion force type)





Side entry type



No. of	Mode	el No.	Dimensio	ons (mm)	Q'ty/box		
circuits	Top entry type	Side entry type	A	В	Top entry type	Side entry type	
2	B2B-PH-KL	S2B-PH-KL	2.0	5.9	1,000	1,000	
3	B3B-PH-KL	S3B-PH-KL	4.0	7.9	1,000	1,000	
4	B4B-PH-KL	S4B-PH-KL	6.0	9.9	1,000	500	
5	B5B-PH-KL	S5B-PH-KL	8.0	11.9	1,000	500	
6	B6B-PH-KL	S6B-PH-KL	10.0	13.9	1,000	500	
7	B7B-PH-KL	S7B-PH-KL	12.0	15.9	500	500	
8	B8B-PH-KL	S8B-PH-KL	14.0	17.9	500	250	
9	B9B-PH-KL	S9B-PH-KL	16.0	19.9	500	250	
10	B10B-PH-KL	S10B-PH-KL	18.0	21.9	500	250	
11	B11B-PH-KL	S11B-PH-KL	20.0	23.9	500	250	
12	B12B-PH-KL	S12B-PH-KL	22.0	25.9	400	250	
13	B13B-PH-KL	S13B-PH-KL	24.0	27.9	250	250	
14	B14B-PH-KL	S14B-PH-KL	26.0	29.9	250	200	
15	B15B-PH-KL	S15B-PH-KL	28.0	31.9	250	200	
16	B16B-PH-KL	S16B-PH-KL	30.0	33.9	250	200	

Material and Finish Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, gray

RoHS2 compliance This product displays (LF)(SN) on a label. <For reference> As the color identification,

the following alphabet shall be put in the underlined part.

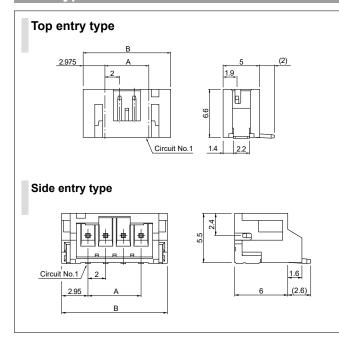
For availability, delivery and minimum order quantity, contact JST.

B2B-PH-KL-00 ex.

(blank) ... gray

R...red E...blue S...natural (white)

SMT type Header



	Model No.		Dime			
No. of circuits	Top entry type Side entry type	Side entry type	A	I	Q'ty/ reel	
onouno			Top entry type	Side entry type		
2	B2B-PH-SM4-TB	S2B-PH-SM4-TB	2.0	7.95	7.9	1,000
3	B3B-PH-SM4-TB	S3B-PH-SM4-TB	4.0	9.95	9.9	1,000
4	B4B-PH-SM4-TB	S4B-PH-SM4-TB	6.0	11.95	11.9	1,000
5	B5B-PH-SM4-TB	S5B-PH-SM4-TB	8.0	13.95	13.9	1,000
6	B6B-PH-SM4-TB	S6B-PH-SM4-TB	10.0	15.95	15.9	1,000
7	B7B-PH-SM4-TB	S7B-PH-SM4-TB	12.0	17.95	17.9	1,000
8	B8B-PH-SM4-TB	S8B-PH-SM4-TB	14.0	19.95	19.9	1,000
9	B9B-PH-SM4-TB	S9B-PH-SM4-TB	16.0	21.95	21.9	1,000
10	B10B-PH-SM4-TB	S10B-PH-SM4-TB	18.0	23.95	23.9	1,000
11	B11B-PH-SM4-TB	S11B-PH-SM4-TB	20.0	25.95	25.9	1,000
12	B12B-PH-SM4-TB	S12B-PH-SM4-TB	22.0	27.95	27.9	1,000
13	B13B-PH-SM4-TB	S13B-PH-SM4-TB	24.0	29.95	29.9	1,000
14	B14B-PH-SM4-TB	S14B-PH-SM4-TB	26.0	31.95	31.9	1,000
15	B15B-PH-SM4-TB	S15B-PH-SM4-TB	28.0	33.95	33.9	1,000
16	B16B-PH-SM4-TB	—	30.0	35.95	-	1,000

Material and Finish

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

RoHS2 compliance This product displays (LF)(SN) on a label. Note: Contact JST for the top entry type headers with suction cap.

As the color identification, <For reference>

the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

B2B-PH-SM4-oo-TB ex.

(blank)...natural (ivory)

R...red E...blue M...green L...lemon yellow K...black DPK...dark pink

JST 3