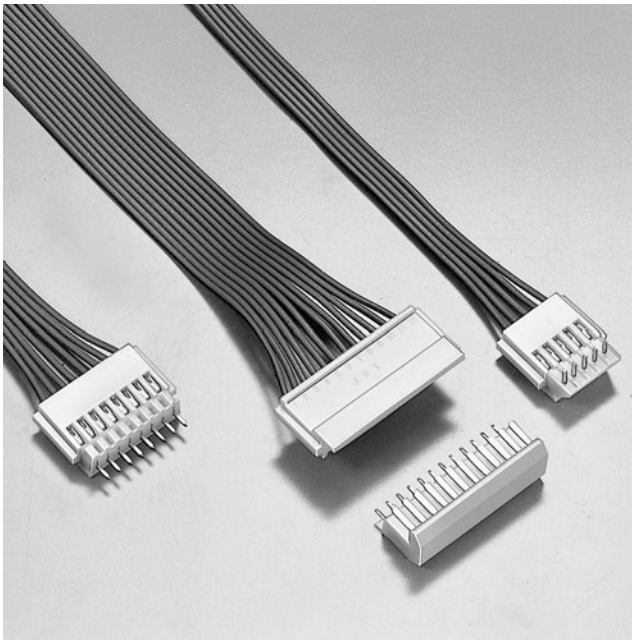
EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

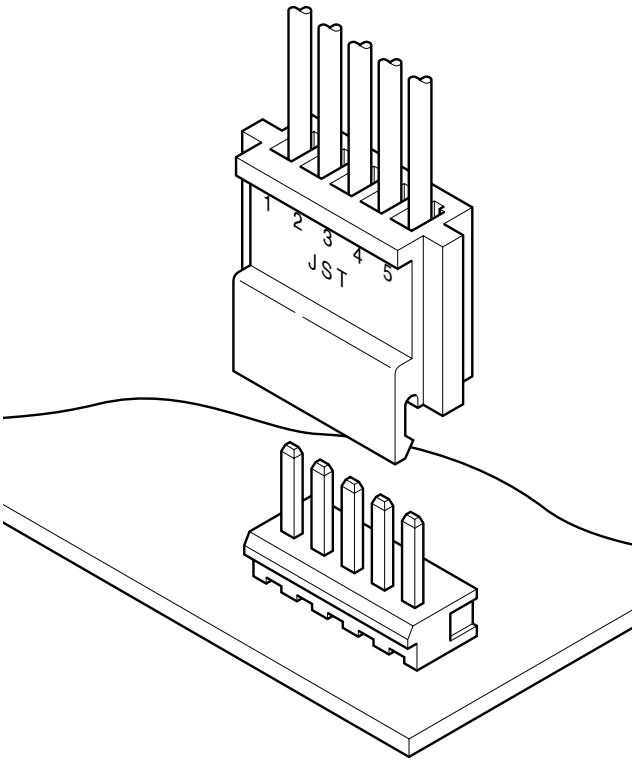
JST
Crimp
2.5mm pitch

NH CONNECTOR

Disconnectable Crimp style connectors



This 2.5mm pitch connector is used to connect wires to printed circuit boards. The header is available in three configurations: top, side, and bottom entry. This allows the wires to be perpendicular or parallel to the printed circuit board in any direction.



Features

• Superior folded beam construction

(1) This sturdy construction withstands repeated stress, resists permanent deformation, and offers a very long service life.

(2) High reliability is ensured whether the contact pressure is high or low.

(3) This contact design has a large tolerance for variations in mating post thickness and resists deformation when pried.

• Double-sided contact

(1) The receptacle contact has a protected entry which eliminates contact damage caused by mismating.

(2) It provides high contact pressure, is free from abnormal stress, and maintains continuity at all times.

(3) It has an extremely long service life due to its folded beam design.

• Wide, sturdy post

The post has a large cross-sectional area to resist prying during insertion into printed circuit boards and mating with connector housings.

• Molded-in header

The posts are molded into the insulator to provide stability when mounted on printed circuit boards. This also prevents flux from entering the connector during soldering.

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

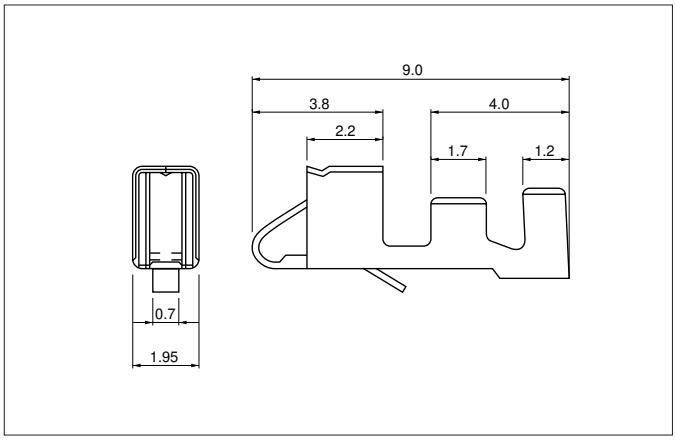
Standards

Recognized E60389

Certified LR20812

J50168090

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. (mm)	
SHF-001T-0.8BS	0.08 to 0.33	28 to 22	1.2 to 1.7	5,000
SHF-002T-0.8BS	0.05 to 0.08	30 to 28	0.9 to 1.2	

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

RoHS compliance

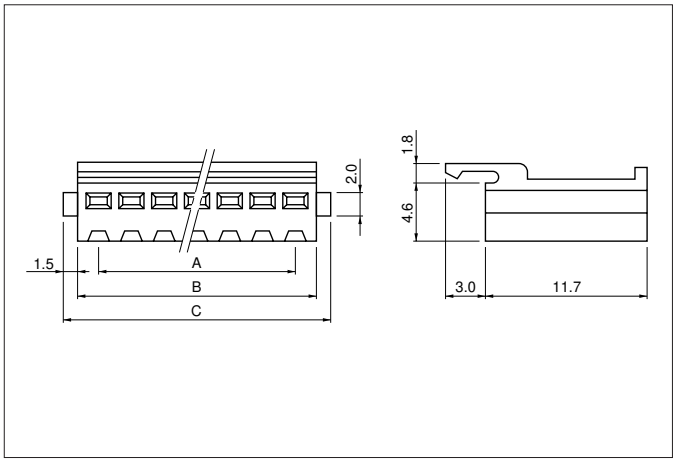
Note:

1. Contact JST for gold-plated products.

2. Also contact JST if you require shielded wires, thin wires or other special wires.

3. Contact JST for brass products.

Housing



Cir-cuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	**H 2P-SHF-AA**	2.5	5.7	8.7	1,000
3	**H 3P-SHF-AA**	5.0	8.2	11.2	1,000
4	**H 4P-SHF-AA**	7.5	10.7	13.7	1,000
5	**H 5P-SHF-AA**	10.0	13.2	16.2	1,000
6	**H 6P-SHF-AA**	12.5	15.7	18.7	1,000
7	**H 7P-SHF-AA**	15.0	18.2	21.2	500
8	**H 8P-SHF-AA**	17.5	20.7	23.7	500
9	**H 9P-SHF-AA**	20.0	23.2	26.2	500
10	**H10P-SHF-AA**	22.5	25.7	28.7	500
11	**H11P-SHF-AA**	25.0	28.2	31.2	500
12	**H12P-SHF-AA**	27.5	30.7	33.7	500
13	**H13P-SHF-AA**	30.0	33.2	36.2	500
14	**H14P-SHF-AA**	32.5	35.7	38.7	500
15	**H15P-SHF-AA**	35.0	38.2	41.2	200
16	**H16P-SHF-AA**	37.5	40.7	43.7	200
18	**H18P-SHF-AA**	42.5	45.7	48.7	200
20	**H20P-SHF-AA**	47.5	50.7	53.7	200
21	**H21P-SHF-AA**	50.0	53.2	56.2	200
22	**H22P-SHF-AA**	52.5	55.7	58.7	200
24	**H24P-SHF-AA**	57.5	60.7	63.7	200
25	**H25P-SHF-AA**	60.0	63.2	66.2	200

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

RoHS compliance

<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.

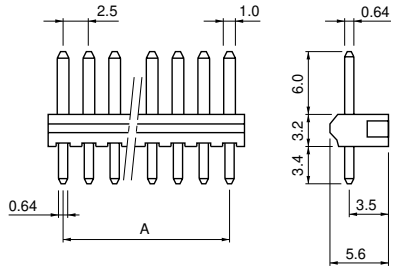
ex. **H2P-SHF-AA-oo**

(blank)…natural (white)

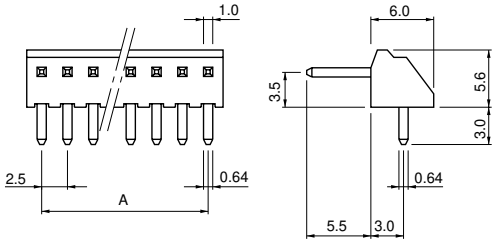
K…black R…red TR…tomato red E…blue M…green O…orange N…brown

Header

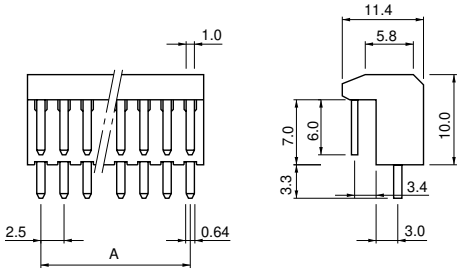
Top entry type



Side entry type



Bottom entry type



Circuits	Model No.			Dimensions A (mm)	Q'ty / box		
	Top entry type	Side entry type	Bottom entry type		Top entry type	Side entry type	Bottom entry type
2	B 2P-SHF-1AA	BS 2P-SHF-1AA	BE 2P-SHF-1AA	2.5	1,000	1,000	250
3	B 3P-SHF-1AA	BS 3P-SHF-1AA	BE 3P-SHF-1AA	5.0	1,000	1,000	250
4	B 4P-SHF-1AA	BS 4P-SHF-1AA	BE 4P-SHF-1AA	7.5	1,000	500	250
5	B 5P-SHF-1AA	BS 5P-SHF-1AA	BE 5P-SHF-1AA	10.0	1,000	500	250
6	B 6P-SHF-1AA	BS 6P-SHF-1AA	BE 6P-SHF-1AA	12.5	500	500	150
7	B 7P-SHF-1AA	BS 7P-SHF-1AA	BE 7P-SHF-1AA	15.0	500	500	150
8	B 8P-SHF-1AA	BS 8P-SHF-1AA	BE 8P-SHF-1AA	17.5	500	500	150
9	B 9P-SHF-1AA	BS 9P-SHF-1AA	BE 9P-SHF-1AA	20.0	500	500	150
10	B10P-SHF-1AA	BS10P-SHF-1AA	BE10P-SHF-1AA	22.5	250	250	100
11	B11P-SHF-1AA	BS11P-SHF-1AA	BE11P-SHF-1AA	25.0	250	250	100
12	B12P-SHF-1AA	BS12P-SHF-1AA	BE12P-SHF-1AA	27.5	250	200	100
13	B13P-SHF-1AA	BS13P-SHF-1AA	BE13P-SHF-1AA	30.0	250	200	100
14	B14P-SHF-1AA	BS14P-SHF-1AA	BE14P-SHF-1AA	32.5	250	200	50
15	B15P-SHF-1AA	BS15P-SHF-1AA	BE15P-SHF-1AA	35.0	250	200	50
16	B16P-SHF-1AA	BS16P-SHF-1AA	–	37.5	250	200	–
17	B17P-SHF-1AA	–	–	40.0	200	–	–
18	B18P-SHF-1AA	BS18P-SHF-1AA	–	42.5	200	200	–
19	B19P-SHF-1AA	–	–	45.0	250	–	–
20	B20P-SHF-1AA	BS20P-SHF-1AA	–	47.5	250	200	–
21	B21P-SHF-1AA	BS21P-SHF-1AA	–	50.0	250	200	–
22	B22P-SHF-1AA	BS22P-SHF-1AA	–	52.5	250	200	–
23	B23P-SHF-1AA	–	–	55.0	250	–	–
24	B24P-SHF-1AA	BS24P-SHF-1AA	–	57.5	250	200	–
25	B25P-SHF-1AA	BS25P-SHF-1AA	–	60.0	250	200	–

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white) for the top and side entry types PA 6, UL94V-0, natural (white) for the bottom entry type

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

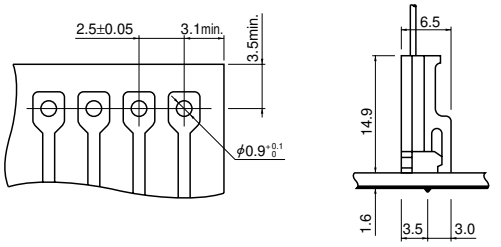
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-SHF-1AA-oo**

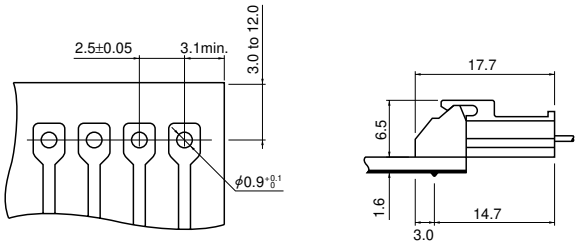
(blank)…natural (white)
BK…black R…red TR…tomato red E…blue M…green
O…orange N…brown

PC board layout (viewed from soldering side) and Assembly layout

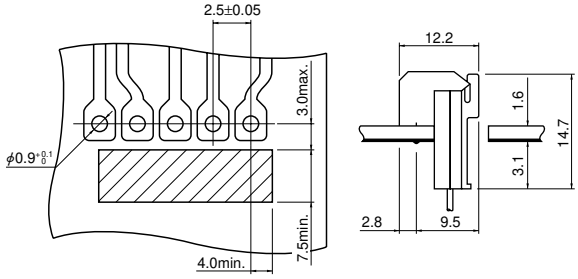
Top entry type



Side entry type



Bottom entry type



Note:
1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SHF-001T-0.8BS	AP-K2N	MKS-LS, MKS-L	MK/SHF-001-08S	APLMK SHF001-08S
		*MKS-SC	SC/SHF-001-08S	APLSC SHF001-08S
SHF-002T-0.8BS	AP-K2N	MKS-LS, MKS-L	MK/SHF-002-08S	APLMK SHF002-08S
		*MKS-SC	SC/SHF-002-08S	APLSC SHF002-08S

*Note: *Strip-crimp applicator*