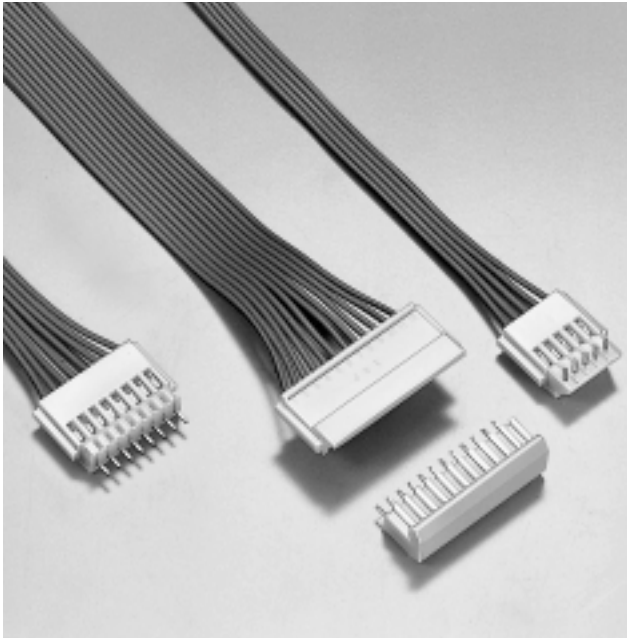


**JST**

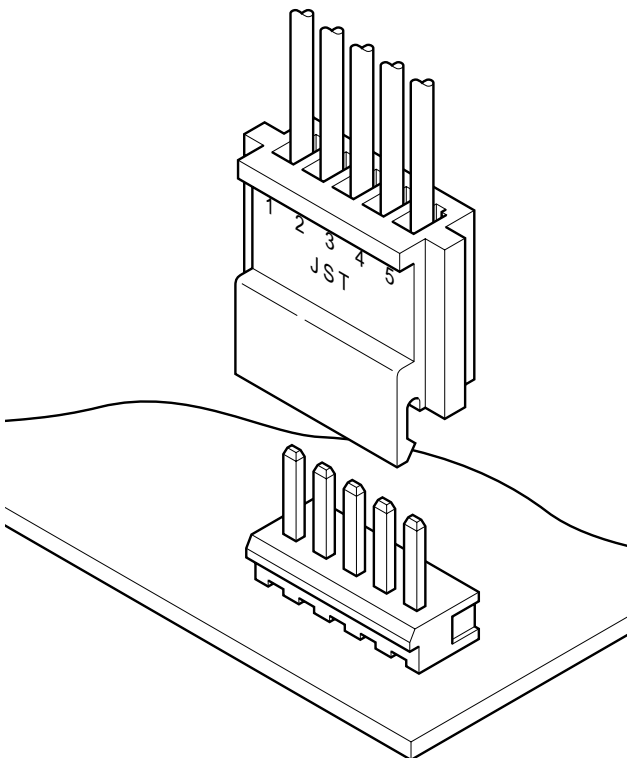
Crimp

**2.5mm**  
(.098") pitch

# NH CONNECTOR

*Disconnectable Crimp style connectors*

**This 2.5mm (.098") 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 mismatching.
- (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.

### • Whisker prevention

The header post is copper-undercoated and tin/lead-plated to prevent whiskers from being generated and to provide good solderability.

### • 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 max.  
After environmental testing/20m max.
  - Insulation resistance: 500M min.
  - Withstanding voltage: 1,500V AC/minute
  - Applicable wire: AWG #30 to #22
  - Applicable PC board thickness: 1.6mm(.063")
- \* Contact JST for details.

## Standards

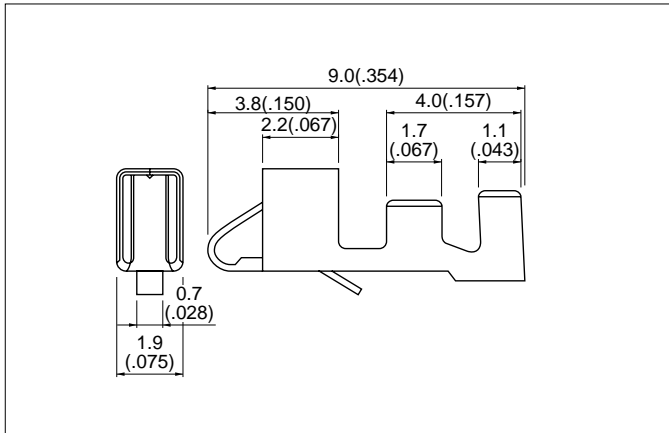
 Recognized E60389

 Certified LR20812

 R75086

# NH CONNECTOR

## Contact



Model No.	Applicable wire			Q'ty / reel
	mm <sup>2</sup>	AWG #	Insulation O.D. mm(in.)	
<b>SHF-001T-0.8BS</b>	0.08 to 0.33	28 to 22	1.2 to 1.7 (.047 to .067)	5,000
<b>SHF-002T-0.8BS</b>	0.05 to 0.08	30 to 28	0.9 to 1.2 (.035 to .047)	

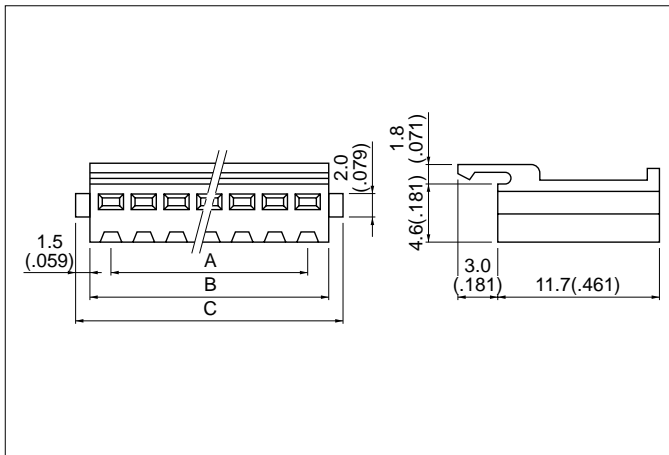
### Material and Finish

Phosphor bronze, tin-plated

### Note:

1. Contact JST if you require gold-plated contacts.
2. Also contact JST if you require shielded wires, thin wires or other special wires.

## Housing



Circuits	Model No.	Dimensions mm(in.)			Q'ty / bag
		A	B	C	
2	<b>H 2P-SHF-AA</b>	2.5( .098)	5.7( .224)	8.7( .343)	1,000
3	<b>H 3P-SHF-AA</b>	5.0( .197)	8.2( .323)	11.2( .441)	1,000
4	<b>H 4P-SHF-AA</b>	7.5( .295)	10.7( .421)	13.7( .539)	1,000
5	<b>H 5P-SHF-AA</b>	10.0( .394)	13.2( .520)	16.2( .638)	1,000
6	<b>H 6P-SHF-AA</b>	12.5( .492)	15.7( .618)	18.7( .736)	1,000
7	<b>H 7P-SHF-AA</b>	15.0( .591)	18.2( .717)	21.2( .835)	500
8	<b>H 8P-SHF-AA</b>	17.5( .689)	20.7( .815)	23.7( .933)	500
9	<b>H 9P-SHF-AA</b>	20.0( .787)	23.2( .913)	26.2(1.031)	500
10	<b>H10P-SHF-AA</b>	22.5( .886)	25.7(1.012)	28.7(1.130)	500
11	<b>H11P-SHF-AA</b>	25.0( .984)	28.2(1.110)	31.2(1.228)	500
12	<b>H12P-SHF-AA</b>	27.5(1.083)	30.7(1.209)	33.7(1.327)	500
13	<b>H13P-SHF-AA</b>	30.0(1.181)	33.2(1.307)	36.2(1.425)	500
14	<b>H14P-SHF-AA</b>	32.5(1.280)	35.7(1.406)	38.7(1.524)	500
15	<b>H15P-SHF-AA</b>	35.0(1.378)	38.2(1.504)	41.2(1.622)	200
16	<b>H16P-SHF-AA</b>	37.5(1.476)	40.7(1.602)	43.7(1.720)	200
18	<b>H18P-SHF-AA</b>	42.5(1.673)	45.7(1.799)	48.7(1.917)	200
20	<b>H20P-SHF-AA</b>	47.5(1.870)	50.7(1.996)	53.7(2.114)	200
21	<b>H21P-SHF-AA</b>	50.0(1.969)	53.2(2.094)	56.2(2.213)	200
22	<b>H22P-SHF-AA</b>	52.5(2.067)	55.7(2.193)	58.7(2.311)	200
24	<b>H24P-SHF-AA</b>	57.5(2.264)	60.7(2.390)	63.7(2.508)	200
25	<b>H25P-SHF-AA</b>	60.0(2.363)	63.2(2.488)	66.2(2.606)	200

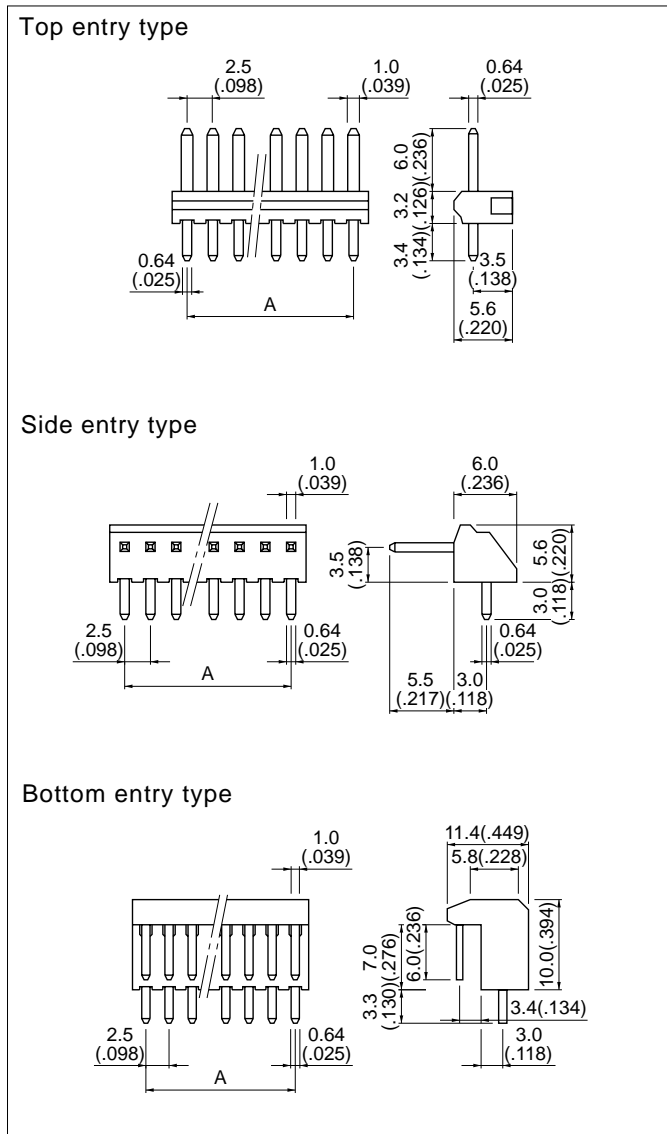
### Material

Nylon 6, UL94V-0, natural (white)

<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-00  
 (blank)...natural (white)  
 K...black R...red TR...tomato red E...blue M...green  
 O...orange N...brown

## Header



Circuits	Model No.			Dimensions A mm(in.)	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 (.098)	1,000	2,000	250
3	B 3P-SHF-1AA	BS 3P-SHF-1AA	BE 3P-SHF-1AA	5.0 (.197)	1,000	1,000	250
4	B 4P-SHF-1AA	BS 4P-SHF-1AA	BE 4P-SHF-1AA	7.5 (.295)	1,000	1,000	250
5	B 5P-SHF-1AA	BS 5P-SHF-1AA	BE 5P-SHF-1AA	10.0 (.394)	1,000	500	250
6	B 6P-SHF-1AA	BS 6P-SHF-1AA	BE 6P-SHF-1AA	12.5 (.492)	1,000	500	150
7	B 7P-SHF-1AA	BS 7P-SHF-1AA	BE 7P-SHF-1AA	15.0 (.591)	500	500	150
8	B 8P-SHF-1AA	BS 8P-SHF-1AA	BE 8P-SHF-1AA	17.5 (.689)	500	500	150
9	B 9P-SHF-1AA	BS 9P-SHF-1AA	BE 9P-SHF-1AA	20.0 (.787)	500	500	150
10	B10P-SHF-1AA	BS10P-SHF-1AA	BE10P-SHF-1AA	22.5 (.886)	500	250	100
11	B11P-SHF-1AA	BS11P-SHF-1AA	BE11P-SHF-1AA	25.0 (.984)	500	250	100
12	B12P-SHF-1AA	BS12P-SHF-1AA	BE12P-SHF-1AA	27.5 (1.083)	250	200	100
13	B13P-SHF-1AA	BS13P-SHF-1AA	BE13P-SHF-1AA	30.0 (1.181)	250	200	100
14	B14P-SHF-1AA	BS14P-SHF-1AA	BE14P-SHF-1AA	32.5 (1.280)	250	200	50
15	B15P-SHF-1AA	BS15P-SHF-1AA	BE15P-SHF-1AA	35.0 (1.378)	250	200	50
16	B16P-SHF-1AA	BS16P-SHF-1AA	—	37.5 (1.476)	250	200	—
18	B18P-SHF-1AA	BS18P-SHF-1AA	—	42.5 (1.673)	250	200	—
20	B20P-SHF-1AA	BS20P-SHF-1AA	—	47.5 (1.870)	250	200	—
21	B21P-SHF-1AA	BS21P-SHF-1AA	—	50.0 (1.969)	250	200	—
22	B22P-SHF-1AA	BS22P-SHF-1AA	—	52.5 (2.067)	250	200	—
24	B24P-SHF-1AA	BS24P-SHF-1AA	—	57.5 (2.264)	250	200	—
25	B25P-SHF-1AA	BS25P-SHF-1AA	—	60.0 (2.362)	250	200	—

### Material and Finish

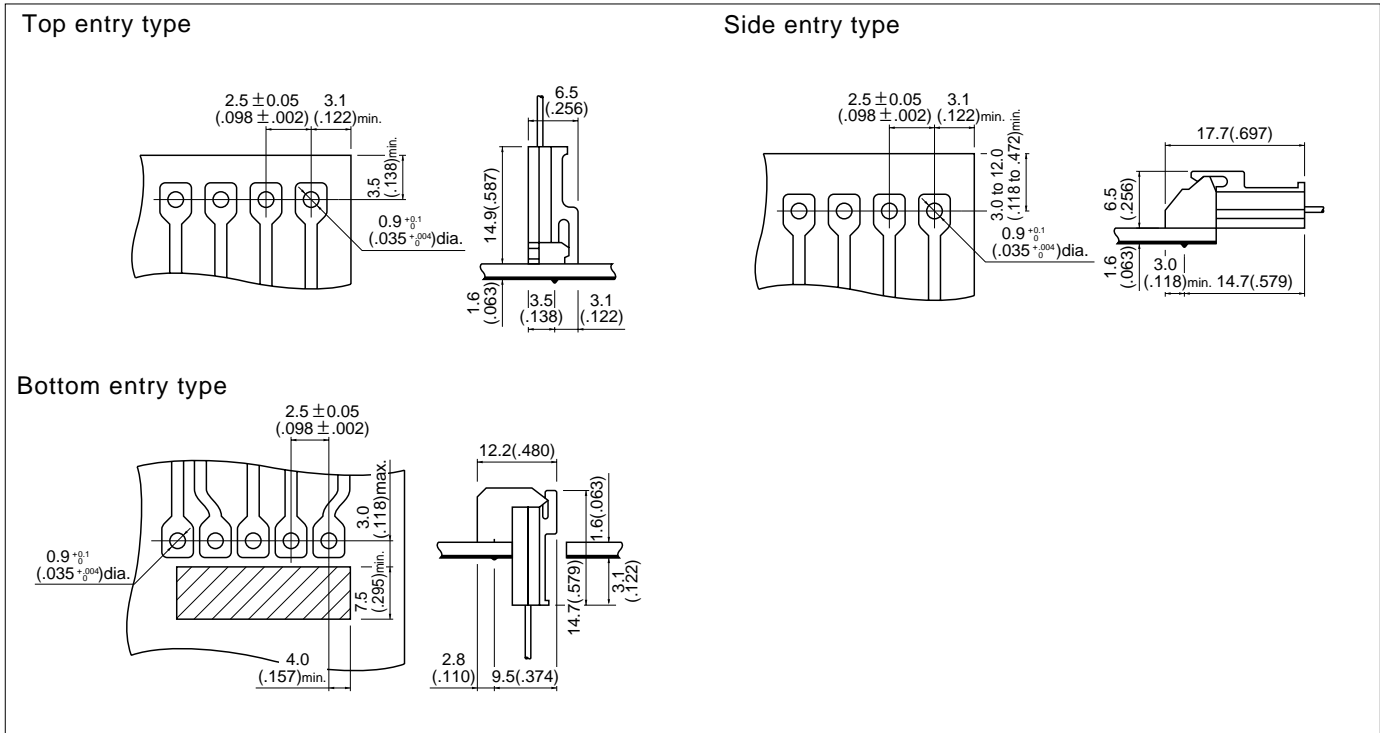
Post: Brass copper-undercoated, tin/lead-plated  
 Wafer: Nylon 66, UL94V-0, natural (white) for the top and side entry types  
 Nylon 6, UL94V-0, natural (white) for the bottom entry type

<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. B3P-SHF-1AA-oo  
 (blank)...natural (white)  
 BK...black R...red TR...tomato red E...blue M...green  
 O...orange N...brown

# NH CONNECTOR

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



**Note:**

1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}(\pm .002")$  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.

## Applicator for the semi-automatic press AP-K2N

Contact	Crimp applicator MKS-L		Compact crimp applicator MKS-LS		Strip-crimp applicator MKS-SC
	with safety cover	without safety cover	with safety cover	without safety cover	with safety cover
SHF-001T-0.8BS	APLMK SHF001-08S	APLNC SHF001-08S	APLMKLS SHF001-08S	APLLSNC SHF001-08S	APLSC SHF001-08S
SHF-002T-0.8BS	APLMK SHF002-08S	APLNC SHF002-08S	APLMKLS SHF002-08S	APLLSNC SHF002-08S	APLSC SHF002-08S