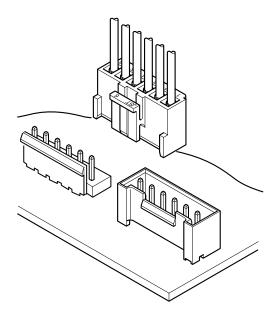


# 3.96mm pitch/Disconnectable Crimp style connectors



This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.

- Proven box contact
- Compact connector with a large capacity
- Secure contact and mounting

### Specifications —

Current rating: 10A AC, DC (AWG #16)Voltage rating: 250V AC, DC

• Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/10m  $\Omega$  max.

After environmental testing/20m  $\Omega$  max.

• Insulation resistance: 1,000M  $\Omega$  min. • Withstanding voltage: 1,500V AC/minute • Applicable wire: AWG #22 to #16

• Applicable PC board thickness: 1.6mm

### Note:

Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

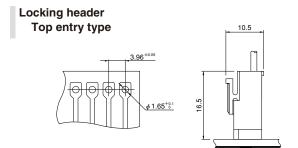
### Standards-

Recognized E60389

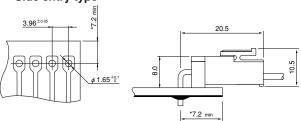
Certified LR20812

△ R75122

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

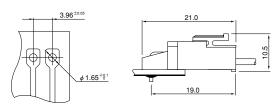


### Locking header Side entry type

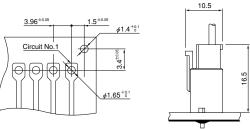


\*11.0 max. when used with the VR connector receptacle.

# Locking header Side entry type with PCB stabilizer

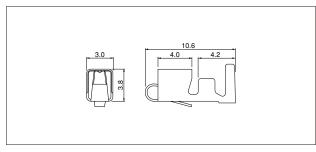


### Shrouded header



- Note: 1. Tolerances are non-cumulative:  $\pm 0.05$ mm for all centers.
  - 2. Please consider the pattern layout design in case of applying the large current.
  - 3. 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.

### Contact



Contact	Crimping	Applicator			
Contact	machine Crimp applicat		Dies	Crimp applicator with dies	
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11	
	AF-NZIN	*MKS-SC	SC/SVH-21-11	APLSC SVH21-11	

Note: \*Strip-crimp applicator

Model No.	Applica	ble wire	Insulation O.D.	Q'ty / reel	
Model No.	mm <sup>2</sup>	AWG#	(mm)		
SVH-21T-P1.1	0.33~0.83	22~18	1.7~3.0	4,500	
SVH-41T-P1.1	0.5 ~1.25	20~16	1.7~3.0	3,500	

### Material and Finish

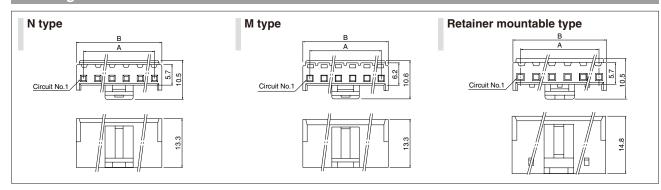
Phosphor bronze, tin-plated (reflow treatment)

### RoHS compliance

- Note: 1. Contact JST for brass products.
  - 2. When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm.

Contact	Crimping			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies
SVH-41T-P1.1	AP-K2N	MKS-L	MK/SVH-41-11	APLMK SVH41-11
	AF-NZIN	_	-	-

### Housing



				Dimensions (mm)		Q'ty /
Circuits	N type	M type	Retaine mountable type	Α	В	bag
2	VHR-2N	VHR-2M	*VHRR-2N	3.96	7.86	1,000
3	VHR-3N	VHR-3M	*VHRR-3N	7.92	11.82	1,000
4	VHR-4N	VHR-4M	_	11.88	15.78	1,000
5	VHR-5N	VHR-5M	*VHRR-5N	15.84	19.74	1,000
6	VHR-6N	VHR-6M	_	19.80	23.70	500
7	VHR-7N	VHR-7M	*VHRR-7N	23.76	27.66	500
8	VHR-8N	_	*VHRR-8N	27.72	31.62	500
9	VHR-9N	VHR-9M	*VHRR-9N	31.68	35.58	500
10	VHR-10N	_	_	35.64	39.54	500
11	*VHR-11N	_	_	39.60	43.50	500

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

RoHS compliance

- Note: 1. Models identified as VHR-( ) M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.

  2. The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.

  3. \*Marked products are not TÜV approved.

As the color identification, <For reference>

the following alphabet shall be put in the underlined part.

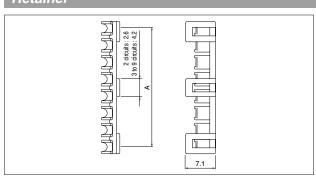
For availability, delivery and minimum order quantity, contact JST.

(blank)...natural (white)

BK...black R...red BL...blue M...green D...orange Y...yellow

PK...pink H...gray

### Retainer



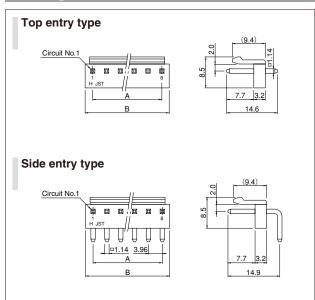
Circuits	Model No.	А	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000
	•		

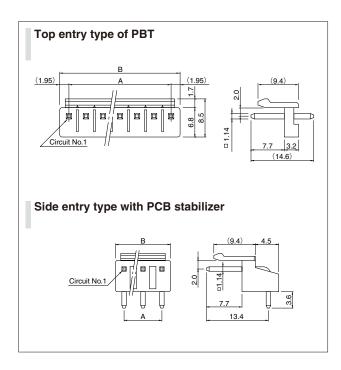
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance Note: Not TÜV approved.

### Locking header





Mode		el No. Dimension		ons (mm)	Q'ty / box	
Circuits	Top entry type	Side entry type	А	В	Top entry type	Side entry type
2	B2P-VH	B2PS-VH	3.96	7.86	1,000	1,000
3	B3P-VH	B3PS-VH	7.92	11.82	1,000	500
4	B4P-VH	B4PS-VH	11.88	15.78	500	500
5	B5P-VH	B5PS-VH	15.84	19.74	500	250
6	B6P-VH	B6PS-VH	19.80	23.70	250	250
7	B7P-VH	B7PS-VH	23.76	27.66	250	250
8	B8P-VH	B8PS-VH	27.72	31.62	200	200
9	B9P-VH	B9PS-VH	31.68	35.58	200	200
10	B10P-VH	B10PS-VH	35.64	39.54	200	100

### Material and Finish

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

RoHS compliance This product displays (LF)(SN) on a label. Note: Headers with a reduced number of posts are also available. Contact JST for details.

<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(S)-VH-oo

(blank)...natural (white)

BK...black R...red TR...tomato red BL...blue M...green

O...orange Y...yellow PK...pink H...gray

	Mode	el No.	Dimensio	ons (mm)	Q'ty	/ box
Circuits	Top entry type of PBT	Side entry type with PCB stabilizer	A	В	Top entry type	Side entry type
2	B2P-VH-B	S2P-VH	3.96	7.86	1,000	1,000
3	B3P-VH-B	S3P-VH	7.92	11.82	1,000	500
4	B4P-VH-B	S4P-VH	11.88	15.78	500	500
5	B5P-VH-B	S5P-VH	15.84	19.74	500	250
6	B6P-VH-B	S6P-VH	19.80	23.70	250	250
7	B7P-VH-B	S7P-VH	23.76	27.66	250	250
8	B8P-VH-B	_	27.72	31.62	200	_
9	B9P-VH-B	_	31.68	35.58	200	_
10	B10P-VH-B	_	35.64	39.54	200	_
11	*B11P-VH-B	_	39.60	43.50	200	_

### Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (white)
Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

RoHS compliance This product displays (LF)(SN) on a label. Note: \*Marked product is not TÜV approved.

<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.

<Top entry type of PBT>

### ex. B2P-VH-B-<u>oo</u>

(blank)...natural (white)

C...black R...red E...blue M...green Y...yellow

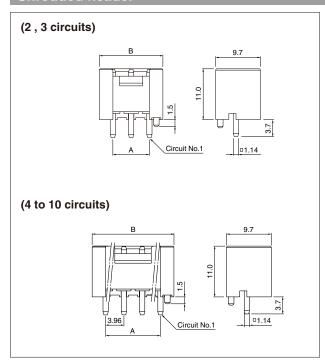
<Side entry type with PCB stabilizer>

### ex. S2P-VH-oo

(blank)...natural (white)

BK...black R...red BL...blue Y...yellow M...green

### Shrouded header



Circuits	Model No.	Dimensi	Olha / haar	
Circuits	woder No.	Α	В	Q'ty / box
2	B2P-VH-FB-B	3.96	9.80	250
3	B3P-VH-FB-B	7.92	13.76	200
4	B4P-VH-FB-B	11.88	17.72	150
5	B5P-VH-FB-B	15.84	21.68	200
6	B6P-VH-FB-B	19.80	25.64	200
7	B7P-VH-FB-B	23.76	29.60	100
8	B8P-VH-FB-B	27.72	33.56	100
9	B9P-VH-FB-B	31.68	37.52	100
10	B10P-VH-FB-B	35.64	41.48	125

### Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

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

Note: The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.

<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-VH-FB-B-<u>oo</u>

(blank)...natural (white)

R...red C...black E...blue M...green Y...yellow O...orange

H...gray PK...pink