

3.96 mm 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

PC board layout and Assembly layout



Locking header Side entry type with PCB stabilizer



Note: 1. The above figure is the figure viewed from soldering side.

- 2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
- 3. Please consider the pattern layout design in case of applying the large current.
- 4. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Specifications _____

- Current rating: 10 A AC/DC (AWG #16)
- Voltage rating: 250 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 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6 mm

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.

- * 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 -

Nº Recognized E60389 G Certified LR20812 🛆 R75122



10.5

*11.0 max. when used with the VR connector receptacle

Shrouded header



VH CONNECTOR

Contact



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

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

Note: When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2 mm.

Contact	Crimping	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11	
SVH-41T-P1.1			MK/SVH-41-11	APLMK SVH41-11	

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.

(*) N / M type ; 1,000 Retainer mountable type ; 500

3. Contact JST for Glow Wire compliant connectors.

Note: Contact JST for fully automatic crimping applicator.

Housing



No. of	Model No.			Dimensio	Q'ty/	
circuits	N type	M type	Retaine mountable type	А	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	(*)
4	VHR-4N	VHR-4M	—	11.88	15.78	1,000
5	VHR-5N	VHR-5M	VHRR-5N	15.84	19.74	(*)
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
		Mat	erial and Finish			

PA 6, UL94V-0, natural (white)

RoHS2 compliance

Retainer



No. of circuits	Model No.	Α	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 and Finish		

RoHS2 compliance

VH CONNECTOR

Locking header



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box	
	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)

RoHS2 compliance This product displays (LF)(SN) on a label. Note: 1. Headers with a reduced number of posts are also available. Contact JST for details.

2. Contact JST for Glow Wire compliant connectors.



Side entry type with PCB stabilizer



	Mode	el No.	Dimensio	ns (mm)	Q'ty/box	
No. of 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)

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

VH CONNECTOR

Shrouded header



<4 to 10 circuits>



No. of	Model No.	Dimensio	Q'ty/	
circuits	Model No.	А	В	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)

RoHS2 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.

Model number allocation

Contact



Retainer



Header Side entry type with PCB stabilizer



Housing



Header



Shrouded header



Retainer mountable type housing



Header Top entry type of PBT



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

Post-omitted Header 1) When giving the polarity to the product by removing the post (N-1)th circuit However, since the product that the 2nd post of 3-circuit connector is omitted doesn't have polarity, select 3). e.g.) Circuit No. 2 3 4 5 6 7 1 **B***1 **P***2-VH 0 Circuit (post) 0 Ο Ο 0 0 Х *1; No. of circuits (No. of posts) Model No. B6P7-VH *2; Circuit No. of used original header \bigcirc ; With circuit (post) \times ; Without circuit (post) 2) When giving the polarity to the product by removing the post in 2nd circuit However, since the product that the 2nd post of 3-circuit connector is omitted doesn't have polarity, select 3). e.g.) 7 5 Circuit No. 2 3 4 6 1 B *1 P *2 -VH-L Circuit (post) 0 0 0 0 0 0 Х Model No. B6P7-VH-L 3) When the pitch is set again 1. When setting two times of pitch with omitting every other one post However, posts shall be inserted in No.1-circuit and No. N-circuit. e.g.) Circuit No. 2 3 5 7 1 4 6 B *1 P *2 -VH Circuit (post) 0 Х Ο Х 0 Х 0 Model No. B4P7-VH 2. When setting three times of pitch with omitting every other two posts However, posts shall be inserted in No.1-circuit and No. N-circuit. e.g.) Circuit No. 1 2 3 4 5 6 7 **B***1 **P***2-VH 0 Circuit (post) × × 0 × × \cap Model No. B3P7-VH 3. When setting four times of pitch with omitting every other three posts However, posts shall be inserted in No.1-circuit and No. N-circuit. e.g.) Circuit No. 1 2 3 4 5 6 7 8 9 **B***1 **P***2-VH Circuit (post) 0 × \times × 0 \times × \times 0

Model No.

B3P9-VH