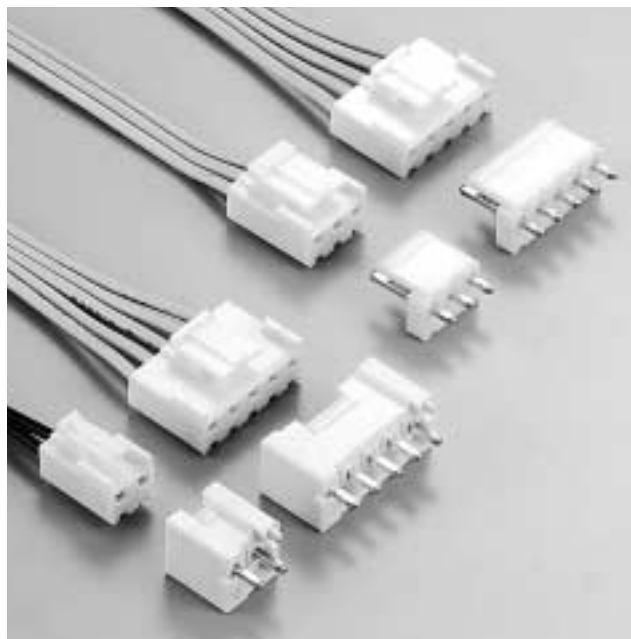
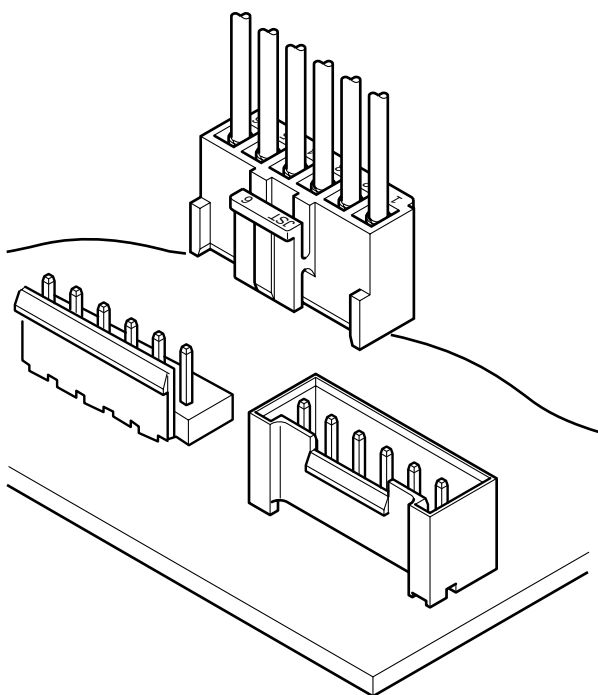


VH CONNECTOR

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.



Features

• Proven box contact

This connector was developed with the same box-shaped contact design used successfully in the NH connectors. The reliable VH connector can be used in a wide variety of applications, from low-voltage, low-current signal circuits to power supply circuits having a relatively large capacity.

• Compact connector with a large capacity

Even though this connector has a large current carrying capacity (10A), it is compact, with a mounting height of 16.5mm (.650").

• Secure contact and mounting

The housing has a lock mechanism which prevents the connector from coming loose due to vibration. The mechanism also prevents misinsertion (misalignment or reverse insertion).

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 Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6mm(.063")

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.

*Contact JST for details.

Standards



Recognized E60389

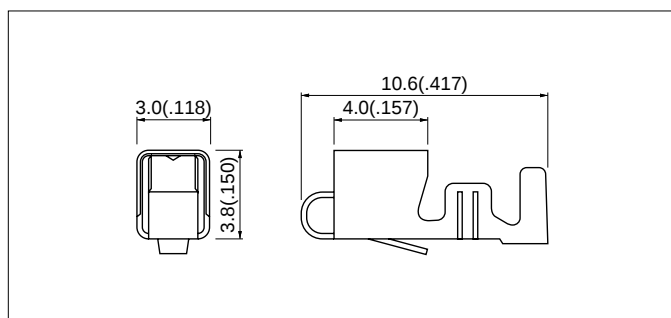


Certified LR20812



R75122

Contact



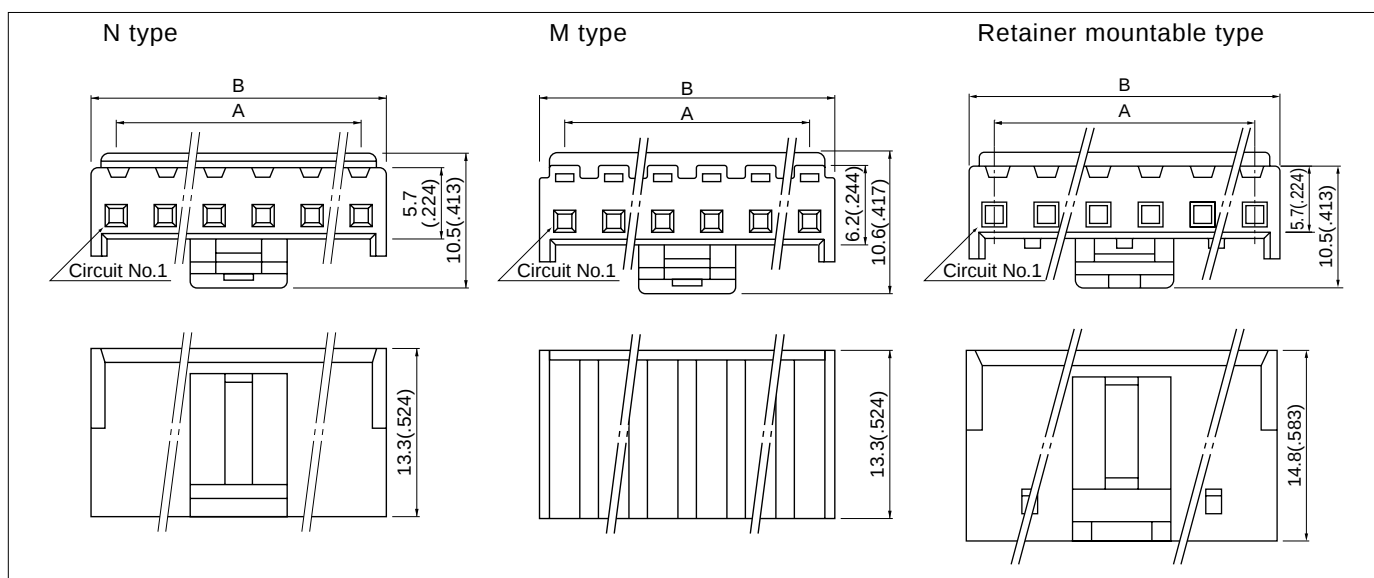
Model No.	Applicable wire			Q'ty / reel
	mm ²	AWG #	Insulation O.D. mm(in.)	
SVH-21T-P1.1	0.33 to 0.83	22 to 18	1.7 to 3.0 (.067 to .118)	4,500
SVH-41T-P1.1	0.5 to 1.25	20 to 16	1.7 to 3.0 (.067 to .118)	3,500

Material and Finish

Phosphor bronze, tin-plated

Note: When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm(.067" to .087").

Housing



Cir- cuits	Model No.			Dimensions mm(in.)		Q'ty / bag
	N type	M type	Retainer mountable type	A	B	
2	VHR-2N	—	VHRR-2N	3.96(.156)	7.86(.309)	1,000
3	VHR-3N	VHR-3M	VHRR-3N	7.92(.312)	11.82(.465)	1,000
4	VHR-4N	VHR-4M	—	11.88(.468)	15.78(.621)	1,000
5	VHR-5N	VHR-5M	VHRR-5N	15.84(.624)	19.74(.777)	1,000
6	VHR-6N	VHR-6M	—	19.80(.780)	23.70(.933)	500
7	VHR-7N	VHR-7M	—	23.76(.935)	27.66(1.089)	500
8	VHR- 8N	—	VHRR-8N	27.72(1.091)	31.62(1.245)	500
9	VHR- 9N	VHR-9M	VHRR-9N	31.68(1.247)	35.58(1.401)	500
10	VHR-10N	—	—	35.64(1.403)	39.54(1.557)	500

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. **VHR-2N-00**

(blank)...natural (white)

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

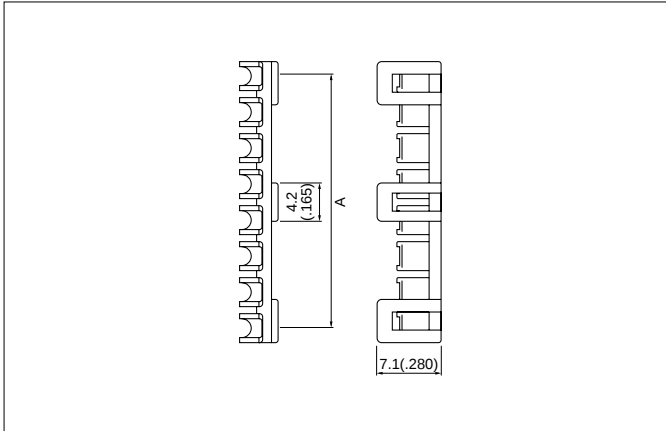
D...orange Y...yellow PK...pink H...gray

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

2. Models VHRR-() N are not TÜV approved.

VH CONNECTOR

Retainer



Circuits	Model No.	A	Q'ty / bag
2	VHS-2V	3.96(.156)	1,000
3	VHS-3V	7.52(.296)	1,000
5	VHS-5V	15.44(.608)	1,000
8	VHS-8V	27.32(1.076)	1,000
9	VHS-9V	31.28(1.231)	1,000

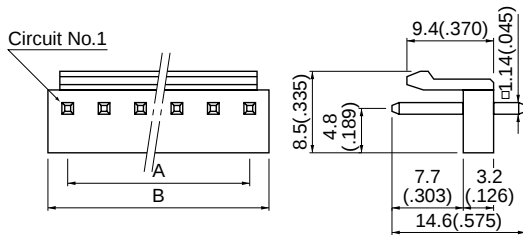
Material

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

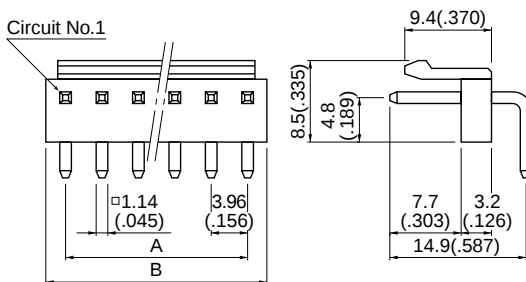
Note: Not CSA/TÜV approved.

Locking header

Top entry type



Side entry type



Cir- cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B 2P-VH	B 2PS-VH	3.96(.156)	7.86(.309)	1,000	1,000
3	B 3P-VH	B 3PS-VH	7.92(.312)	11.82(.465)	1,000	500
4	B 4P-VH	B 4PS-VH	11.88(.468)	15.78(.621)	500	500
5	B 5P-VH	B 5PS-VH	15.84(.624)	19.74(.777)	500	250
6	B 6P-VH	B 6PS-VH	19.80(.780)	23.70(.933)	250	250
7	B 7P-VH	B 7PS-VH	23.76(.935)	27.66(1.089)	250	250
8	B 8P-VH	B 8PS-VH	27.72(1.091)	31.62(1.245)	200	200
9	B 9P-VH	B 9PS-VH	31.68(1.247)	35.58(1.401)	200	200
10	B10P-VH	B10PS-VH	35.64(1.403)	39.54(1.557)	200	200

Material and Finish

Post: Brass, copper-undercoated, tin/lead-plated
Wafer: Nylon 66, UL94V-0, natural (white)

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.

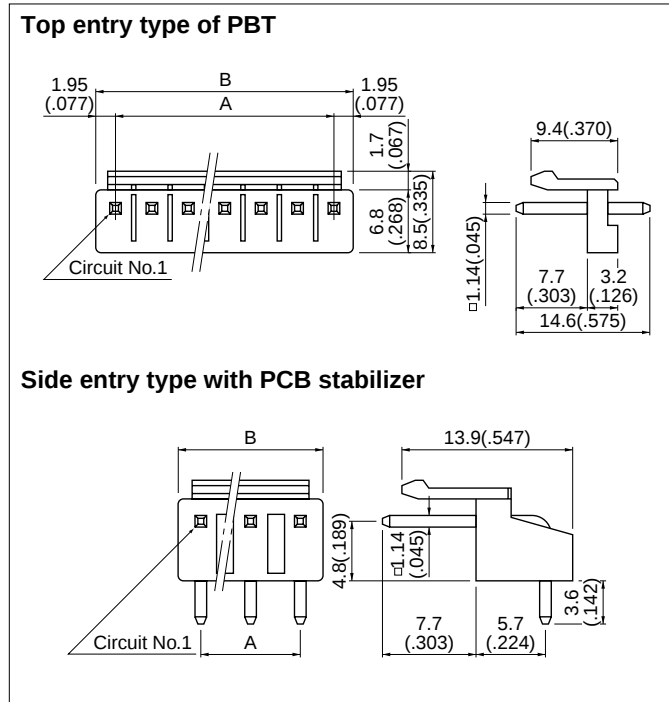
ex. **B2P(S)-VH-00**

(blank)...natural (white)

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

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

Locking header



Circuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	B 2P-VH-B	S2P-VH	3.96(.156)	7.86(.309)	1,000	1,000
3	B 3P-VH-B	S3P-VH	7.92(.312)	11.82(.465)	500	500
4	B 4P-VH-B	S4P-VH	11.88(.468)	15.78(.621)	500	500
5	B 5P-VH-B	—	15.84(.624)	19.74(.777)	250	—
6	B 6P-VH-B	—	19.80(.780)	23.70(.933)	250	—
7	B 7P-VH-B	—	23.76(.935)	27.66(1.089)	250	—
8	B 8P-VH-B	—	27.72(1.091)	31.62(1.245)	200	—
9	B 9P-VH-B	—	31.68(1.247)	35.58(1.401)	200	—
10	B10P-VH-B	—	35.64(1.403)	39.54(1.557)	200	—

Material and Finish

Post: Brass, copper-undercoated, tin/lead-plated natural
 Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (ivory)
 Side entry type with PCB stabilizer: Nylon 66, 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.

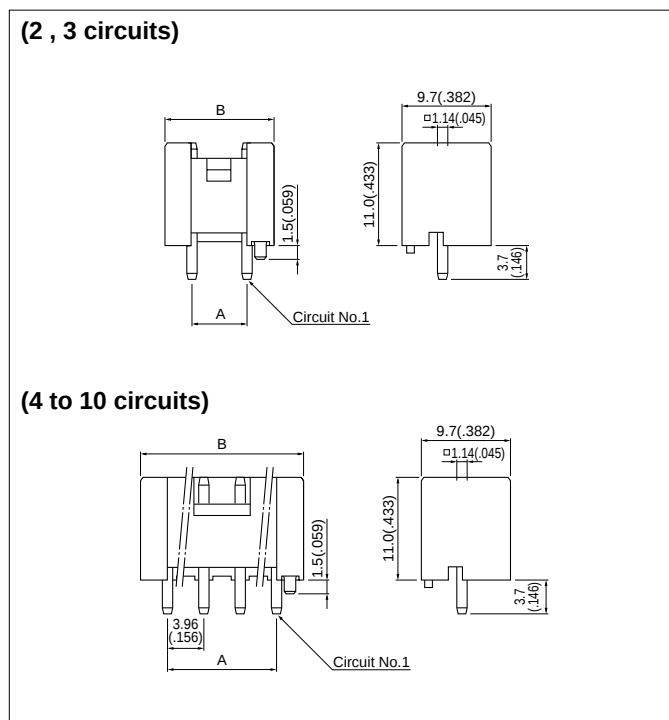
<Top entry type of PBT>

ex. **B2P-VH-B-oo**
 (blank)...natural (ivory)
 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.	Dimensions mm(in.)		Q'ty / box
		A	B	
2	B 2P-VH-FB-B	3.96(.156)	9.80(.386)	250
3	B 3P-VH-FB-B	7.92(.312)	13.76(.542)	200
4	B 4P-VH-FB-B	11.88(.468)	17.72(.698)	150
5	B 5P-VH-FB-B	15.84(.624)	21.68(.854)	200
6	B 6P-VH-FB-B	19.80(.780)	25.64(1.009)	200
7	B 7P-VH-FB-B	23.76(.935)	29.60(1.165)	100
8	B 8P-VH-FB-B	27.72(1.091)	33.56(1.321)	100
9	B 9P-VH-FB-B	31.66(1.246)	37.52(1.477)	100
10	B10P-VH-FB-B	35.64(1.403)	41.48(1.633)	125

Material and Finish

Post: Brass, copper-undercoated, tin/lead-plated
 Wafer: Glass-filled PBT, UL94V-0, natural (white)

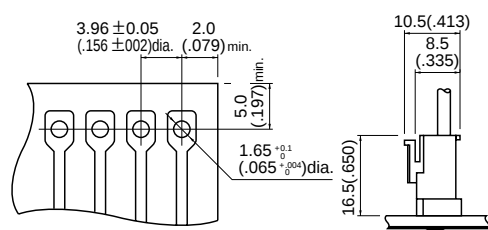
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
 For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-VH-FB-B-oo**
 (blank)...natural (white)
 R...red C...black E...blue M...green Y...yellow O...orange
 H...gray PK...pink

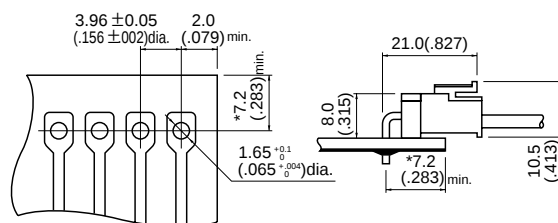
VH CONNECTOR

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

Locking header Top entry type

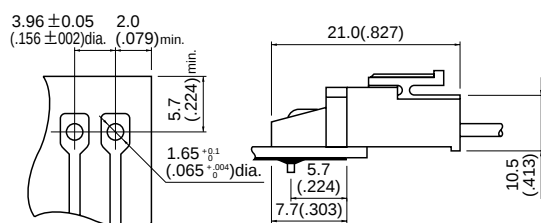


Locking header Side entry type

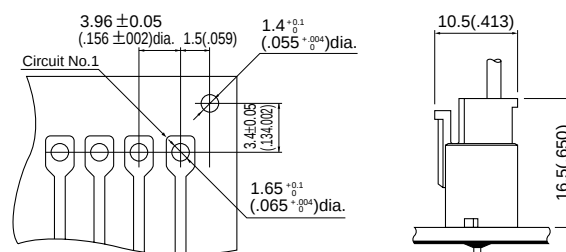


*11.0(.433) max. when used with the VR connector receptacle.

Locking header Side entry type with PCB stabilizer



Shrouded header



Note:

1. Tolerances are non-cumulative: $\pm 0.05\text{mm}(\pm .002)$ 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
SVH-21T-P1.1	APLMK SVH21-11	APLNC SVH21-11	—	—	APLSC SVH21-11
SVT-41T-P1.1	APLMK SVT41-11	APLNC SVT41-11	—	—	APLSC SVT41-11