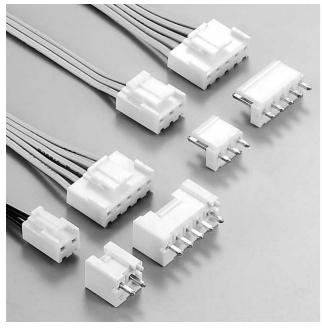
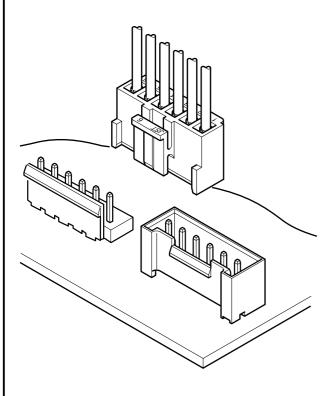


Disconnectable Crimp style connectors



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.

 $\begin{tabular}{ll} \bullet & \mbox{Insulation resistance:} & 1,000M Ω min. \\ \bullet & \mbox{Withstanding voltage:} & 1,500V $AC/minute \\ \end{tabular}$

• 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 if Lead-Free product is required.
- * Temperature Range:

The aforementioned temperature range of this connector is described in JST Standard Product Specification.

Maximum temperature registered in UL is 105°C.

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

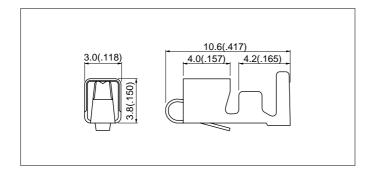
Standards -

Recognized E60389

Certified LR20812

A R75122

Contact -



| Model No. | mm² | AWG # | Insulation O.D. mm(in.) | Q'ty / reel |
|--------------|--------------|----------|------------------------------|----------------|
| 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 |

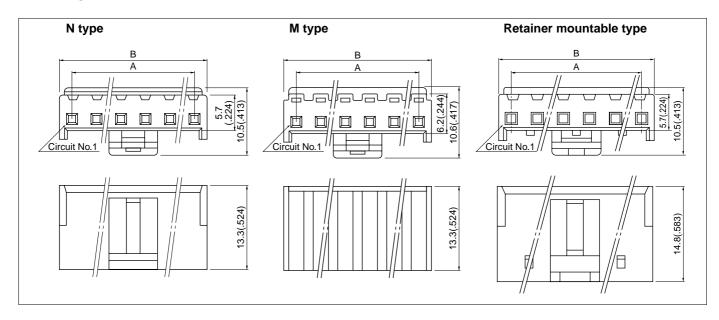
Material and Finish

Phosphor bronze, tin-plated

Note: 1. Contact JST if you require contacts made of brass.

2. 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. | | | Dimension | | |
|---------------|-----------|--------|-------------------------------|--------------|--------------|---------------|
| | N type | M type | Retainer mountable type | Α | В | Q'ty / bag |
| 2 | VHR-2N | VHR-2M | 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 | VHRR-7N | 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 |
| 11 | VHR-11N | _ | _ | 39.60(1.559) | 43.50(1.713) | 500 |

Material Nylon 6, UL94V-0, natural (white) 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. Models VHR-11N and VHRR-()N are not TÜV approved.

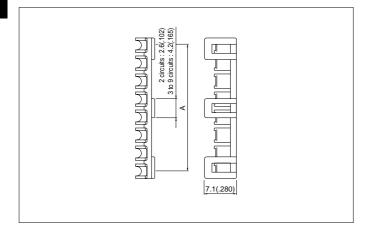
As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. VHR-2N-oo

(blank)...natural (white)

BK...black R...red BL...blue M...green D...orange Y...yellow PK...pink H...gray

Retainer -



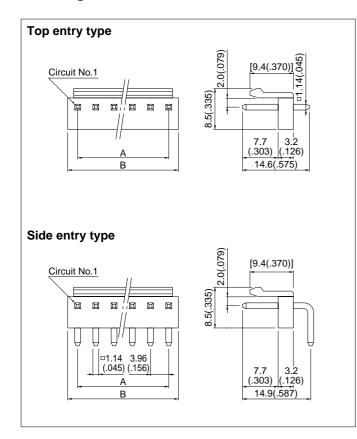
| Circuits | Model No. | A | Q'ty / bag | |
|----------|-----------|--------------|------------|--|
| 2 | VHS-2V | 3.70(.146) | 1,000 | |
| 3 | VHS-3V | 7.52(.296) | 1,000 | |
| 5 | VHS-5V | 15.44(.608) | 1,000 | |
| 7 | VHS-7V | 23.36(.920) | 1,000 | |
| 8 | VHS-8V | 27.32(1.076) | 1,000 | |
| 9 | VHS-9V | 31.28(1.231) | 1,000 | |

Material

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

Note: Not TÜV approved.

Locking header -



| | Model No. | | Dimensions mm(in.) | | Q'ty / box | |
|---------------|----------------|-----------------|--------------------|--------------|----------------------|-----------------------|
| Cir- cuits | Top entry type | Side entry type | А | В | 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.

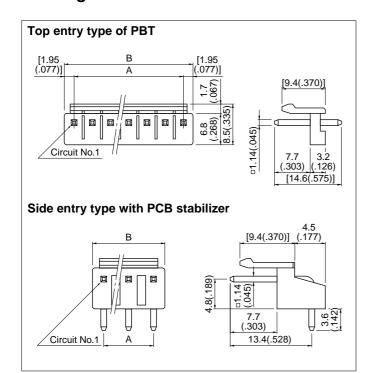
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. B2P(S)-VH-oo

(blank)...natural (white)

BK...black R...red TR...tomato red BL...blue M...green
O...orange Y...yellow PK...pink H...gray

Locking header -



| | Mode | Model No. | | Dimensions mm(in.) | | Q'ty / box | |
|---------------|-----------------------------|---|--------------|--------------------|----------------------|-----------------------|--|
| Cir- cuits | Top entry type of PBT | Side entry type with PCB stabilizer | А | В | 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 | S5P-VH | 15.84(.624) | 19.74(.777) | 250 | 250 | |
| 6 | B 6P-VH-B | _ | 19.80(.780) | 23.70(.933) | 250 | | |
| 7 | B 7P-VH-B | S7P-VH | 23.76(.935) | 27.66(1.089) | 250 | 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 | | |
| 11 | B11P-VH-B | _ | 39.60(1.559) | 43.50(1.713) | _ | _ | |

Material and Finish

Post: Brass, copper-undercoated, tin/lead-plated

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)

Note: B11P-VH-B 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-oo

(blank)...natural (ivory)

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

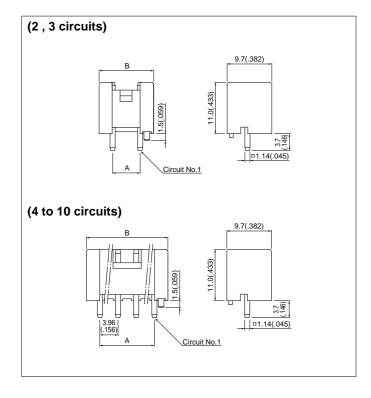
<Side entry type with PCB stabilizer>

ex. S2P-VH-<u>oo</u>

(blank)...natural (white)

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

Shrouded header



| Circuits | Model No. | Dimension | Oltre / hove | |
|----------|--------------|--------------|--------------|------------|
| Circuits | woder No. | Α | В | Q'ty / box |
| 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 | 31.68(1.247) | 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)

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

<For reference> As the color identification,

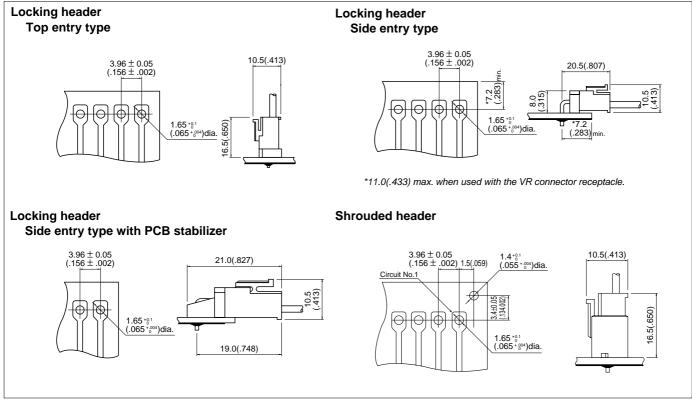
the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. B2P-VH-FB-B-oo

(blank)...natural (white)

R...red C...black E...blue M...green Y...yellow O...orange H...gray PK...pink

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



Note

- 1. Tolerances are non-cumulative: ±0.05mm(±.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 | |
|--------------|------------------------|----------------------|---------------------------------|----------------------|-------------------------------|--|
| Contact | 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 | _ | _ | - | |

单击下面可查看定价,库存,交付和生命周期等信息

>>JST(日本圧着端子製造株式会社)