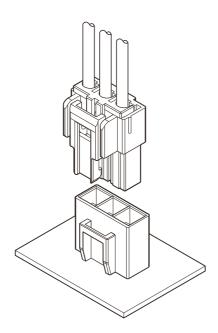


CONNECTOR (HIGH CURRENT TYPE)

6.2mm pitch/Disconnectable Crimp style connectors

(Combined use for both wire-to-board and wire-to-wire connections)



This VL connector is 6.2 mm pitch wire-towire and wire-to-board connector, designed for large current. The connector suitable for the large electric current has been realized by using highly-conducting material, so that the connection of large current circuit enables.

- Housing lances
- Retainer
- Suited for large current
- Compatible for both wire-to-wire and wire-toboard connections

Specifications -

- Current rating: 23 A AC, DC (Refer to the following table.)
- Voltage rating: 600 V AC, DC
- Temperature range: -25°C to +90°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/ 7 m Ω max.

After environmental tests/ 10 m Ω max.

- Insulation resistance: 1,000 M Ω min. • Withstanding voltage: 2,000 VAC/minute
- Applicable wire: AWG #20 to #12 • Applicable PC board thickness: 1.6 mm

Note: Do not branch in parallel current which exceeds the rated current (e.g. more than 22 A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

| | No. of circuits | Wire size (AWG) | | | | |
|--|-----------------|-----------------|-----|-----|-----|-----|
| | | #12 | #14 | #16 | #18 | #20 |
| | 2 | 23 | 18 | 15 | 11 | 9 |
| | 3 | 22 | 17 | 14 | 10 | 8 |
| | 4 | 21 | 16 | 13 | 9 | 8 |

- * The current rating mentioned above is applied only in the combination of contact and header for high current. When either is a normal product, please be careful because the current rating of the normal product is applied.
- * In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
- * Contact JST for details.
- * RoHS2 compliance

Standards -

Recognized E60389

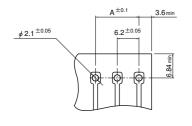
Certified LR20812

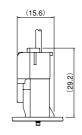
△ R9351103

PC board layout and Assembly layout

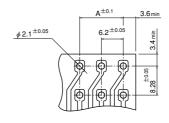
Outer-housing lock

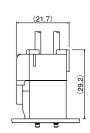
<2, 3, 4 (Single-row) circuits>





<4 circuits>

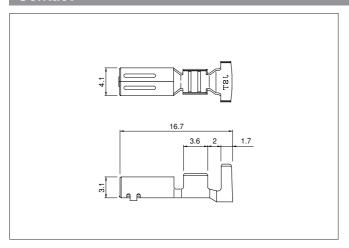




- Note: 1. The above figure is the figure viewed from soldering side.
 - 2. Tolerances are non-cumulative: ±0.05 mm for all centers.
 - 3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VL CONNECTOR (HIGH CURRENT TYPE)

Contact



| Model No. | Applicab | le wire | Insulation O.D. | Q'ty/ |
|---------------|-----------------|---------|-----------------|-------|
| woder No. | mm ² | AWG# | (mm) | reel |
| SVSF-61T-P2.0 | 0.5~2.0 | 20~14 | 1.9~3.4 | 2,000 |
| SVSF-81T-P2.0 | 3.5 | 12 | 4.1 | 2,000 |

Material and Finish

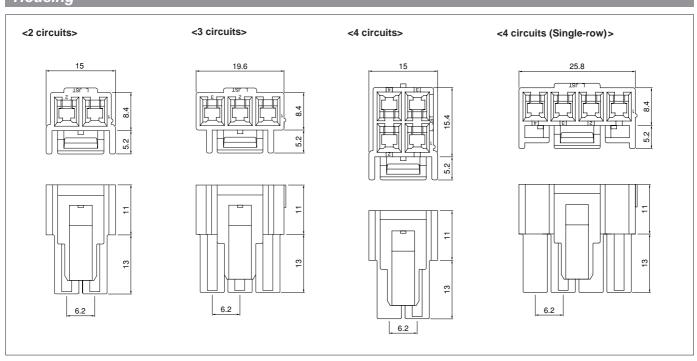
Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance

| Contact | Crimping machine | Applicator | | | |
|----------------|------------------|------------------|----------------|----------------------------|--|
| Contact | | Crimp applicator | Dies | Crimp applicator with dies | |
| CVCE CAT CO O | AP-K2N | MKS-L | MK/SVF/M-61-20 | APLMK SVF/M61-20 | |
| SVSF-61T-S2.0 | | - | | _ | |
| 01/05 047 00 0 | | MKS-L | MK/SVF/M-81-20 | APLMK SVF/M81-20 | |
| SVSF-81T-S2.0 | | _ | _ | _ | |

Note: Contact JST for fully automatic crimping applicator.

Housing



Outer-housing lock

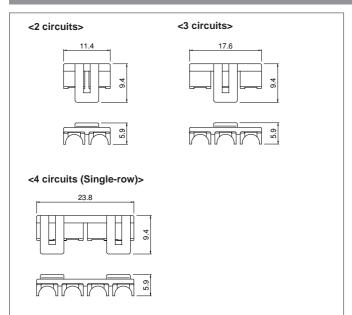
| No. of circuits | Model No. | Q'ty/bag |
|-----------------|------------|----------|
| 2 | VLP-02V-1 | 500 |
| 3 | VLP-03V-1 | 500 |
| 4 | VLP-04V-1 | 500 |
| 4 (Single-row) | VLP-04VN-1 | 500 |
| | | |

PA 66, UL94V-0, natural (white)

RoHS2 compliance

VL CONNECTOR (HIGH CURRENT TYPE)

Retainer



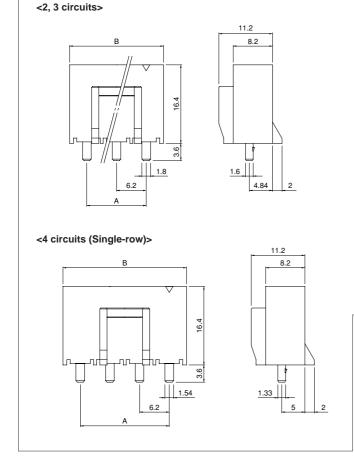
| No. of circuits | Model No. | Q'ty/bag |
|-----------------|-----------|----------|
| 2, 4 | VLS-02V | 1,000 |
| 3 | VLP-03V | 1,000 |
| 4 (Single-row) | VLP-08V | 1,000 |

Material

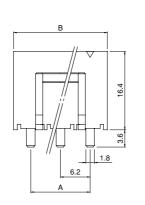
Glass-filled PA 66, UL94V-0, natural (ivory)

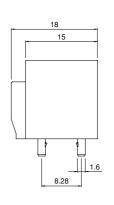
RoHS2 compliance

Header



<4 circuits>





| No. of circuits | Model No. | Q'ty/box |
|-----------------|--------------|----------|
| 2 | B02P-VL-1 | 100 |
| 3 | B03P-VL-1 | 100 |
| 4 | B04P-VL-1 | 100 |
| 4 (Single-row) | B04P-VL-VN-1 | 100 |

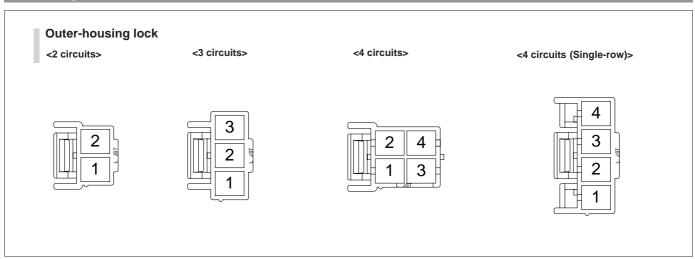
Material and Finish

Post: Copper-alloy, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS2 compliance

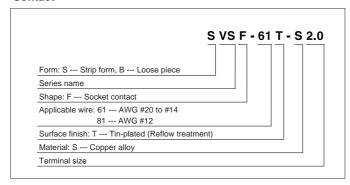
VL CONNECTOR (HIGH CURRENT TYPE)

Contact position location numbers

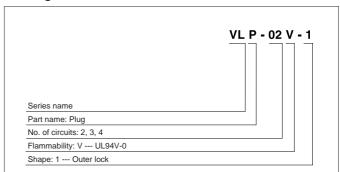


Model number identification

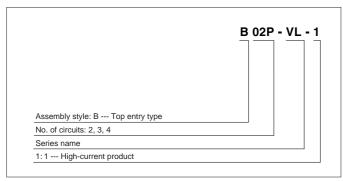
Contact



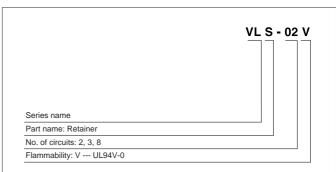
Housing



Header



Retainer



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