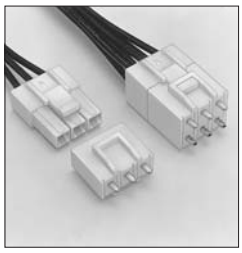
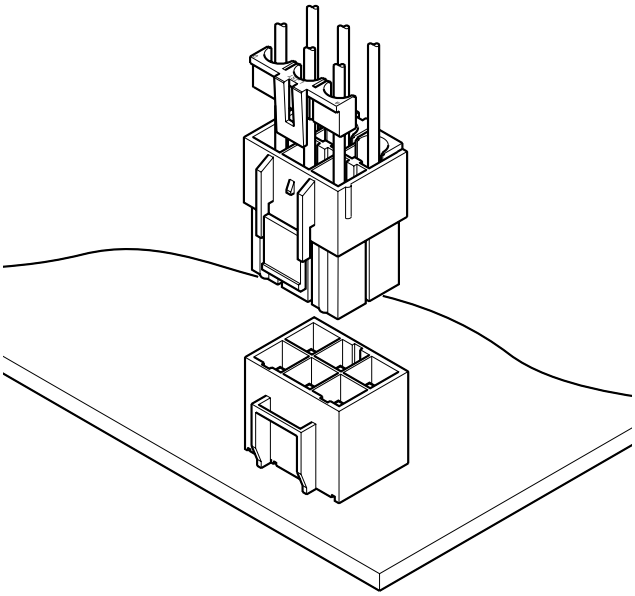


VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style connectors

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



This VL connector is designed for wire-to-wire and wire-to-board 6.2 mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.

- ***Housing lances for contact retention***
- ***Secondary retainer***
- ***Suited for large current***
- ***Two kinds of connections***

Specifications

- Current rating: 20 A AC, DC (Refer to the table below.)
- 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 mΩ max.
  After environmental tests/ 10 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 2,000 VAC/minute
- Applicable wire: AWG #22 to #12
- Applicable PC board thickness: 1.6 mm

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

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.

Current unit: A

Circuits	Wire size(AWG)					
	#12	#14	#16	#18	#20	#22
2	20	15	10	8	6	4
3	17	14	9	8	6	4
4	16	13	9	7	6	4
6	15	12	8	7	5	3
8	14	11	7	6	5	3
12	13	10	7	6	4	3

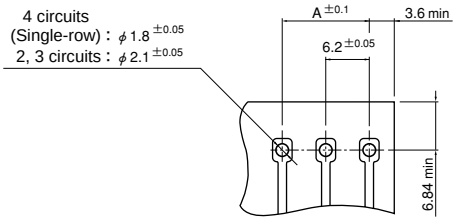
Note: Do not branch in parallel current which exceeds the rated current (e.g. more than 17A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

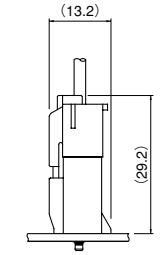
Standards

Recognized E60389
Certified LR20812
R9351103

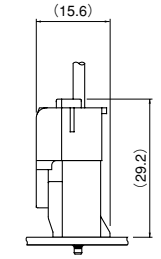
PC board layout and Assembly layout

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



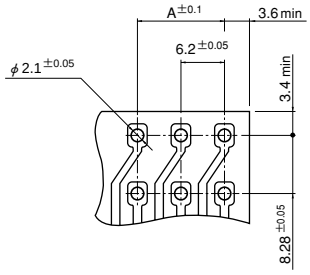


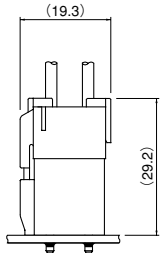
Inner-housing lock



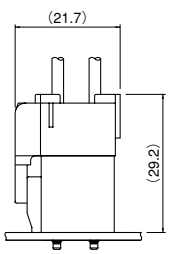
Outer-housing lock

<4, 6, 8, 12 circuits>





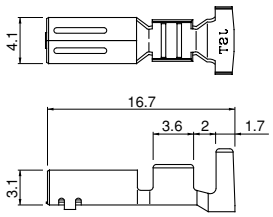
Inner-housing lock



Outer-housing lock

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.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SVF-42T-P2.0	0.3～1.25	22～16	1.7～3.2	2,000
SVF-61T-P2.0	0.5～2.0	20～14	1.9～3.4	2,000
SVF-81T-P2.0	3.5	12	4.1	2,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

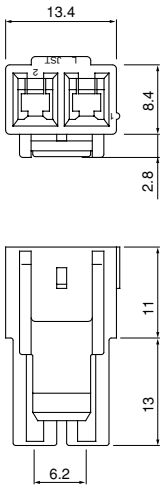
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
		—	—	—
SVF-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
		—	—	—

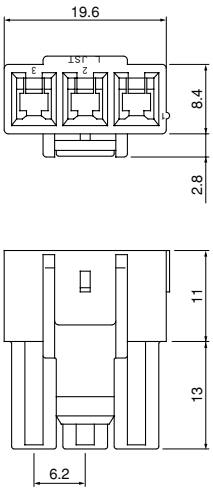
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-81T-P2.0	AP-K2N	MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
		—	—	—

Housing (Inner-housing lock)

<2 circuits>



<3 circuits>



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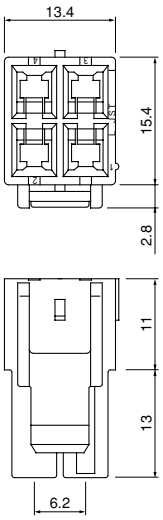

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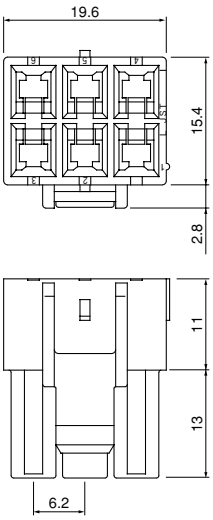

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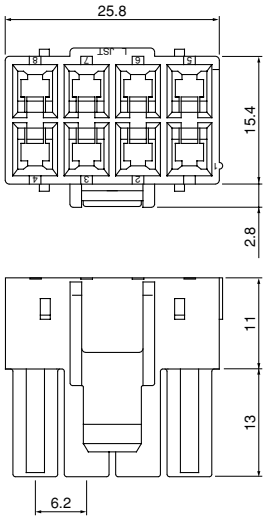

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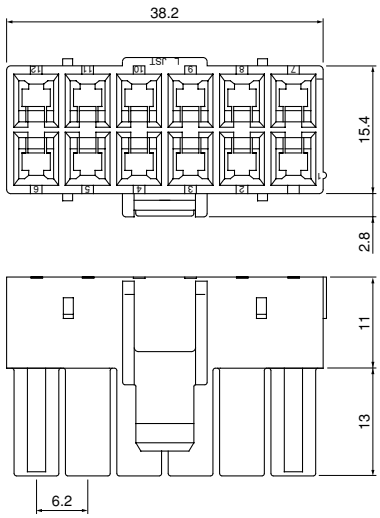


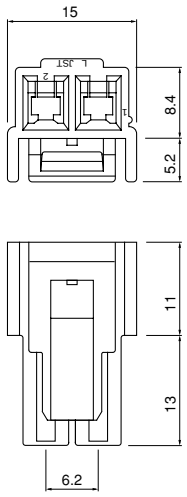
Circuits	Model No.	Q'ty/bag
2	**VLP-02V**	500
3	**VLP-03V**	500
4	**VLP-04V**	500
6	**VLP-06V**	500
8	**VLP-08V**	200
12	**VLP-12V**	100

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

Housing (Outer-housing lock)

<2 circuits>



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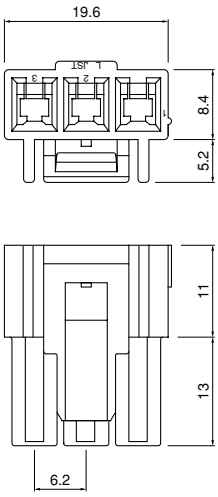
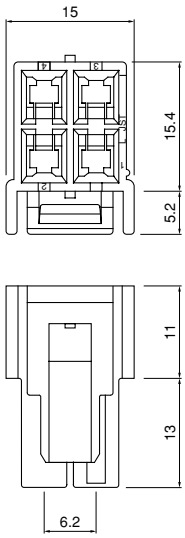
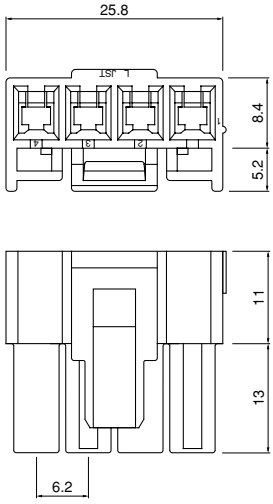


<4 circuits>



<4 circuits (Single-row) >



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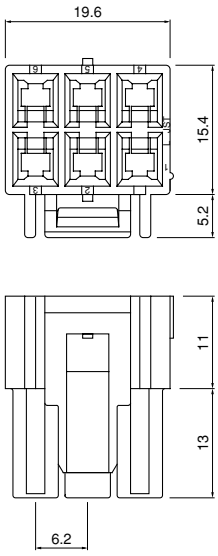

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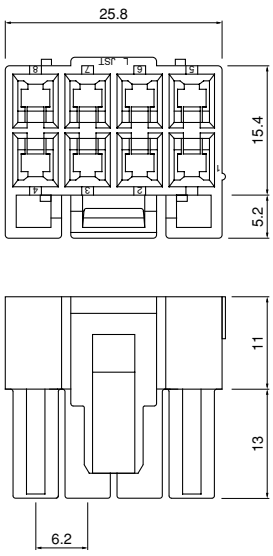
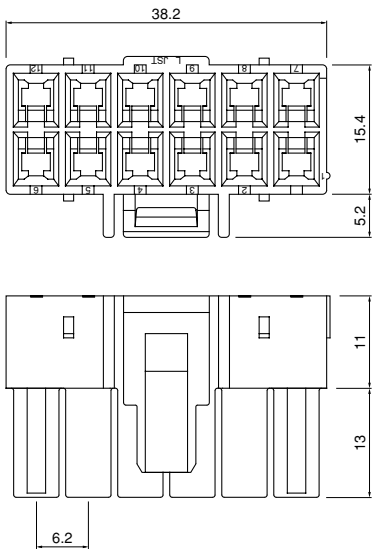


<12 circuits>



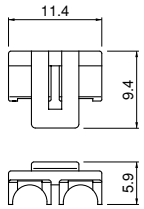
Circuits	Model No.	Q'ty/bag
2	**VLP-02V-1**	500
3	**VLP-03V-1**	500
4	**VLP-04V-1**	500
4(single-row)	**VLP-04VN-1**	500
6	**VLP-06V-1**	500
8	**VLP-08V-1**	200
12	**VLP-12V-1**	100

Material
PA 66, UL94V-0, natural (white)

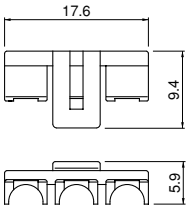
RoHS compliance

Retainer

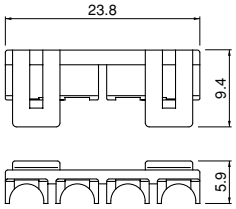
<2, 4 circuits>



<3, 6 circuits>



<4 circuits (Single-row), 8 circuits>



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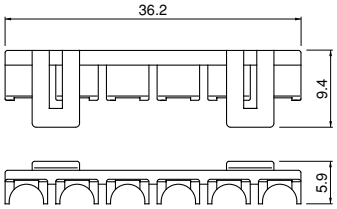


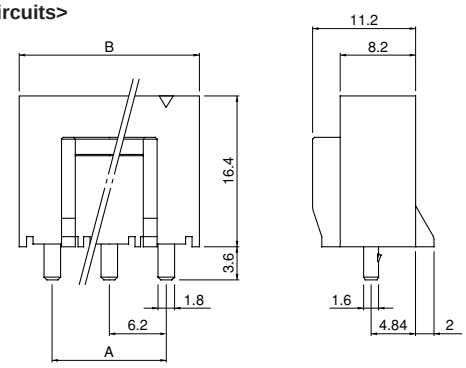
Circuits	Model No.	Q'ty/bag
2, 4	**VLS-02V**	1,000
3, 6	**VLS-03V**	1,000
4(single-row), 8	**VLS-08V**	1,000
12	**VLS-12V**	1,000

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

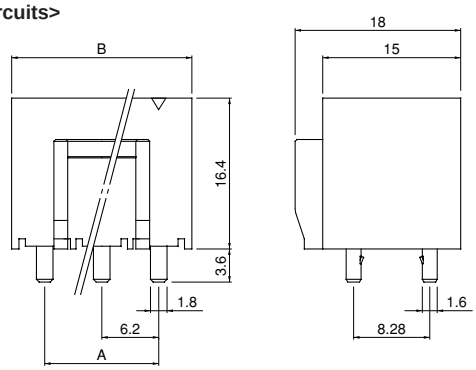
RoHS compliance

Shrouded header

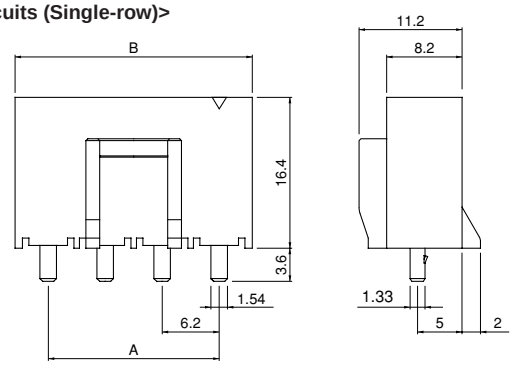
<2, 3 circuits>



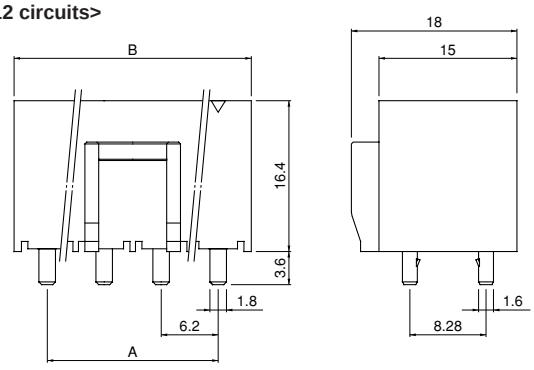
<4, 6 circuits>



<4 circuits (Single-row)>



<8, 12 circuits>



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
2	**B02P-VL**	6.2	13.4	100
3	**B03P-VL**	12.4	19.6	100
4	**B04P-VL**	6.2	13.4	100
4(single-row)	**B04P-VL-VN-1.8**	18.6	26.2	100
6	**B06P-VL**	12.4	19.6	50
8	**B08P-VL**	18.6	26.2	50
12	**B12P-VL**	31.0	38.6	35

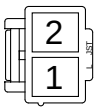
Material and Finish
Post: Copper-alloy, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

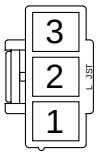
Contact position location numbers

Inner-housing lock

<2 circuits>



<3 circuits>



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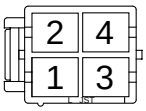
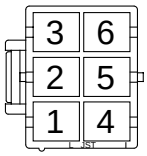


<6 circuits>



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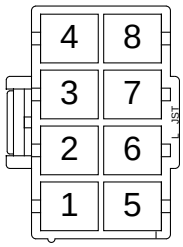
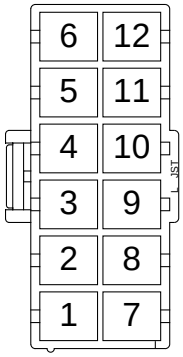
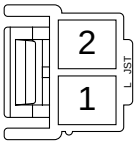


<12 circuits>

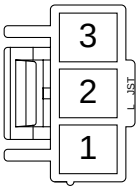


Outer-housing lock

<2 circuits>



<3 circuits>



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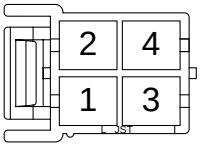
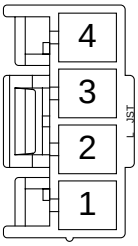


<4 circuits (Single-row)>



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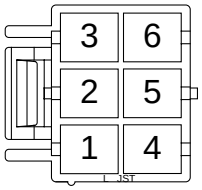

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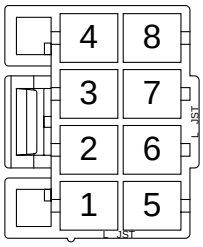

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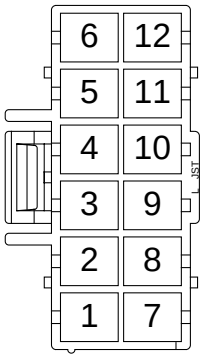

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