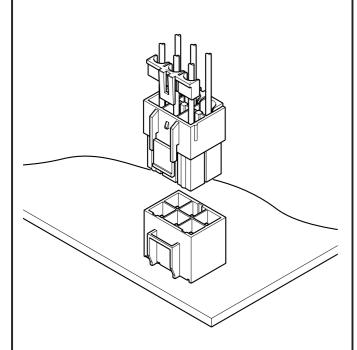


. CONNECTOR

6.2mm pitch/Disconnectable Crimp style connectors



This VL connector is designed for wire-towire and wire-to-board 6.2mm 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: 20A AC, DC (Refer to the table below.)

600V AC, DC Voltage rating: • Temperature range: -25°C to +90°C

(including temperature rise in applying

electrical current)

Contact resistance: Initial value/7m Ω max.

After environmental testing/10m Ω max.

· Insulation resistance: 1,000M Ω min. · Withstanding voltage: 2,000V AC/minute

Applicable wire: AWG #22 to #12

· Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.

* 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.

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)						
	Circuits	#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	

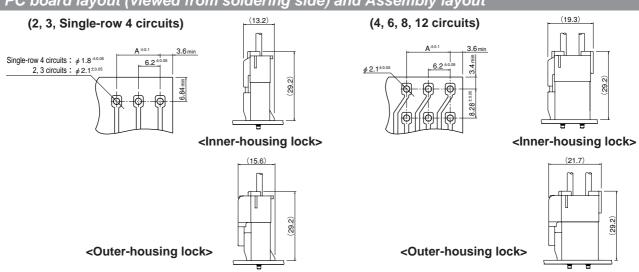
Note: Do not branch in parallel current which exceeds the rated current (eg. more than 17A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without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

Standards -

Recognized E60389

△ R9351103

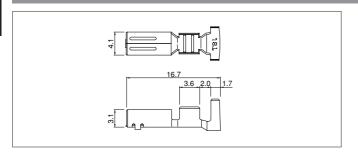
PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm 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.

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty /	
Model No.	mm²	AWG #	Insulation O.D.(IIIII)	reel	
*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)

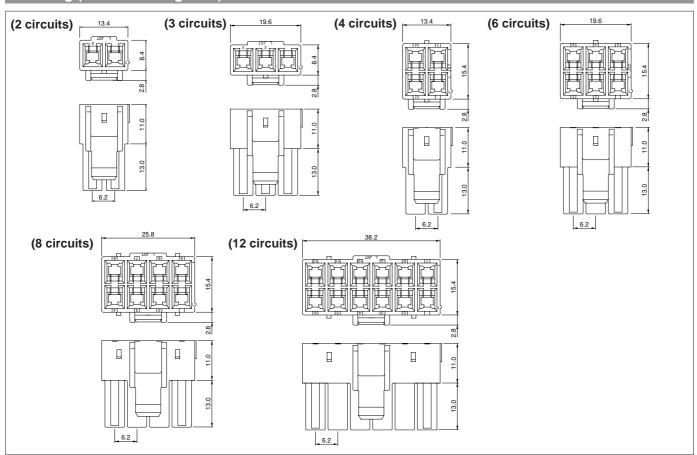
RoHS compliance

Note: *Marked product is not TÜV approved.

Contact	Crimping machine	Applicator			
Contact		Crimp applicator	Dies	Crimp applicator with dies	
SVF-42T-P2.0	- AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20	
347-421-72.0			_	_	
SVF-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20	
3VF-011-P2.U				_	

Contact	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SVF-81T-P2.0	AP-K2N	MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20	
3VF-011-P2.U			_	_	

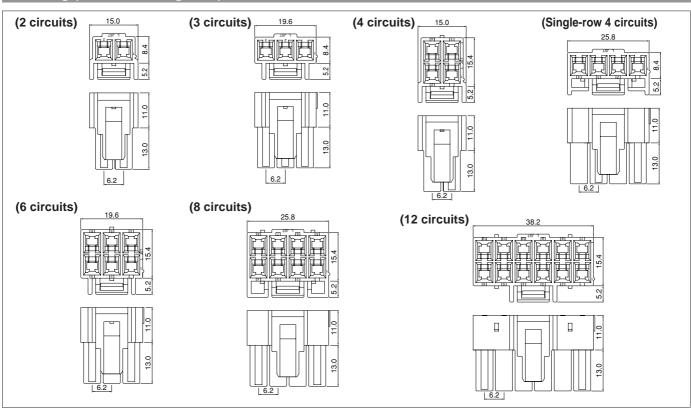
Housing (Inner-housing lock)



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)

Housing (Outer-housing lock)

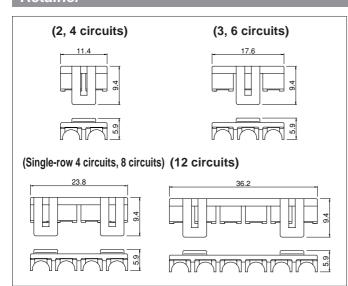


Circuits	Model No.	Q'ty / bag			
2	VLP-02V-1	500			
3	VLP-03V-1	500			
4	VLP-04V-1	500			
4(single-row)	VLP-04VN-1	500			
6	VLP-06V-1	500			
8	VLP-08V-1	200			
12	VLP-12V-1	100			
	Material				

PA 66, UL94V-0, natural (white)

RoHS compliance

Retainer

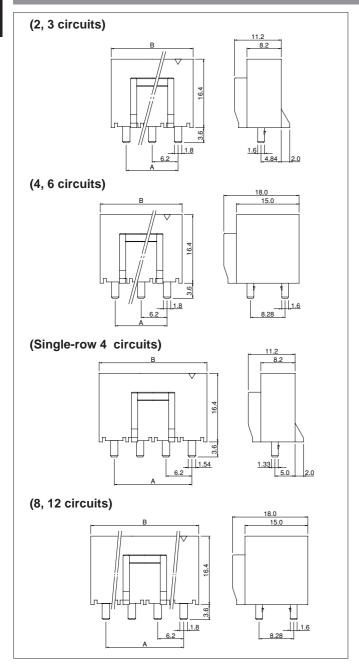


Cir- cuits	Model No.	Q'ty / bag	
2, 4	VLS-02V	1,000	
3, 6	VLS-03V	1,000	
4(single-row),8	VLS-08V	1,000	
12	VLS-12V	1,000	
Material			

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

RoHS compliance

Shrouded header



Cir-	Model No.	Dimensions (mm)		Q'ty /
cuits		Α	В	bóx
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	40

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> (3 circuits) (6 circuits) (8 circuits) (12 circuits) (2 circuits) (4 circuits) <Outer-housing lock> (2 circuits) (3 circuits) (4 circuits) (Single-row (6 circuits) (8 circuits) (12 circuits) 4 circuits)