

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



Specifications -

- Current rating: 20 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 MΩ min.
- Withstanding voltage: 2,000 VAC/minute
- Applicable wire: AWG #22 to #12
- Applicable PC board thickness: 1.6 mm
- * 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

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

Turio	cuon or the r		ircuits and ti	le wire size.		Current unit: A
No. of	No. of 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 (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
- A R9351103



2. Tolerances are non-cumulative: ±0.05 mm for all centers.

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



Contact	Crimping				
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SVF-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20	
3VF-421-F2.0		+		—	
		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20	
SVF-61T-P2.0					

Model No.	Applicab	le wire	Insulation O.D.	Q'ty/	
woder no.	mm ²	AWG #	(mm)	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)

RoHS2 compliance

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-F2.0					

Note: Contact JST for fully automatic crimping applicator.

Housing (Inner-housing lock)







6.2

84

2.8

÷

β



<4 circuits>







<12 circuits>



Model No.	Q'ty/bag
VLP-02V	500
VLP-03V	500
VLP-04V	500
VLP-06V	500
VLP-08V	200
VLP-12V	100
	VLP-02V VLP-03V VLP-04V VLP-06V VLP-08V

PA 66, UL94V-0, natural (white)

RoHS2 compliance Note: Contact JST for Glow Wire compliant connectors.

2 **JST**

Housing (Outer-housing lock)







<3 circuits>









<4 circuits (Single-row)>

25.8



<6 circuits>



6.2

β







<12 circuits>





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
6	VLP-06V-1	500
8	VLP-08V-1	500
12	VLP-12V-1	500
	Material	

PA 66, UL94V-0, natural (white)

RoHS 2compliance

Note: Contact JST for Glow Wire compliant connectors.

Retainer



No. of 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

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

RoHS2 compliance

Header















<8, 12 circuits>





No. of circuits	Model No.	Dimensi	Dimensions (mm)		
NO. OF CITCUITS		A	В	Q'ty/ box	
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 2compliance

Note: Contact JST for Glow Wire compliant connectors.



Model number identification

Connector



Header



Housing



Retainer

