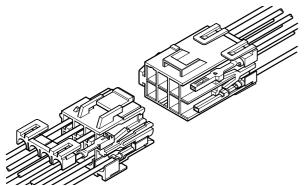


CONNECTOR

6.2mm pitch/Disconnectable Crimp style Wire-to-wire 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 up to 20 A (1 or 2-circuit with 3.5 mm² wire). 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 circuits with high power requirements
- Panel lock construction

Standards -

Recognized E60389

Certified LR20812

△ R9351103

Specifications -

• Current rating: 20 A AC, DC max. Voltage rating: 600 V AC, DC max. 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 m Ω max.

• Insulation resistance: 1,000 M Ω min. • Withstanding voltage: 2,000 VAC/minute • Applicable wire: AWG #22 to #12 0.3 to 3.5 mm²

• Applicable panel thickness: 0.5 to 2.0 mm

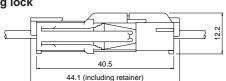
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

Note: The current rating varies 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.								
Circuits	Wire size (AWG)							
	#12	#14	#16	#18	#20	#22		
1	20	15	10	8	6	4		
2	20	15	10	8	6	4		
3	19	14	9	8	6	4		
4	18	13	9	7	6	4		
6	16	12	8	7	5	3		
8	16	11	7	6	5	3		
12	15	10	7	6	4	3		

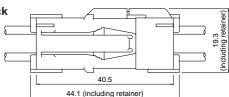
Panel layout and Assembly layout

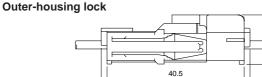
<2, 3, 4 circuits (single-row)> Inner-housing lock

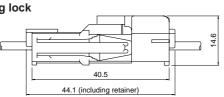




<4, 6, 8, 12 circuits> Inner-housing lock









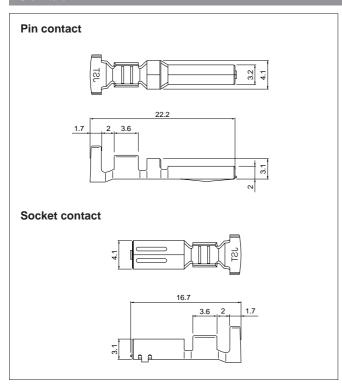
Shape I	Sh	ape II	
9,8±0.13 4,2 A B	0.5±813 E C O.5±813 L C D D D D D D D D D D D D D D D D D D	9.8 ^{±0.13} A B	18.6 ^{±013}

Circuits	Receptacle housing Model No.	Panel hole shape	Panel hole dimensions (mm) General tolerance A, B, D: ±0.13 C, E: ±0.1 A B C D E				Applicable panel thickness (mm)	
2	VLR-02V	I	13.8	20.6	5.7	8.5	1.4	,
3	VLR-03V	I	20.0	26.8	5.7	8.5	1.4]
4	VLR-04V	П	13.8	20.6	7.0	15.4	4.2]
(Single-row)	VLR-04VN	I	26.2	33.0	5.7	8.5	1.4	0.5~2.0
6	VLR-06V	П	20.0	26.8	7.0	15.4	4.2	
8	VLR-08V	П	26.2	33.0	7.0	15.4	4.2	
12	VLR-12V	П	38.9	45.4	7.0	15.4	4.2	

- Note: 1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.
 - 2. The strength of the panel must be considered when punching two or more holes.
 - 3. The connector must be inserted from the same side as the hole is punched.

VL CONNECTOR

Contact



Mode	el No.	Applica	ble wire	Insulation	Q'ty/	
Pin contact	Socket contact	mm²	AWG #	O.D. (mm)	reel	
SVM-42T-P2.0	SVF-42T-P2.0	0.3~1.25	22~16	1.7~3.2		
3VIVI-421-P2.U	5VF-421-P2.U	0.3+0.3~ 0.5+0.75	22+22~ 20+18	1.7+1.7~ 2.5+2.7		
CVM C4T D0 0	CVE CAT DO O	0.5~2.0	20~14	1.9~3.4	2,000	
SVM-61T-P2.0	SVF-61T-P2.0	0.5+0.5~ 0.75+1.25	20+20~ 18+16	1.9+1.9~ 2.1+2.7		
SVM-81T-P2.0	SVF-81T-P2.0	3.5	12	4.1		

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

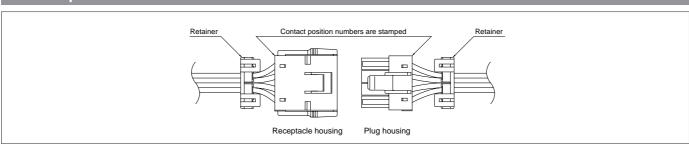
RoHS compliance

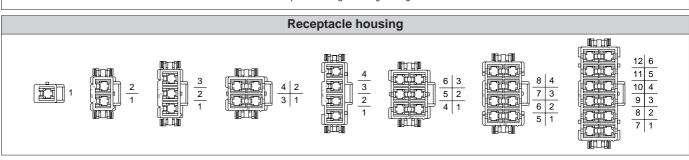
Note: Contact JST for special products.

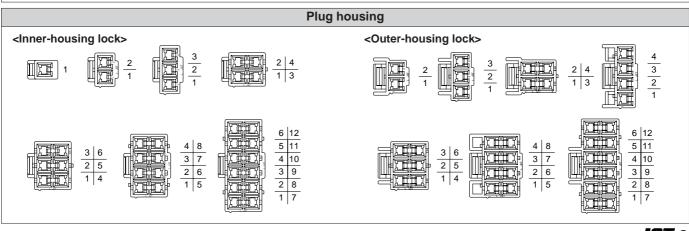
Contact	Crimping	Applicator					
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies			
SVM-42T-P2.0		MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20			
SVF-42T-P2.0		_	_	_			
SVM-61T-P2.0	AP-K2N	MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20			
SVF-61T-P2.0	AP-NZIN	_	_	_			
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20			
SVF-81T-P2.0		_	_	_			

Note: Contact JST for fully automatic crimping applicator.

Contact position location numbers







VL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white Retainer...Glass-filled PA 66, UL94V-0, ivory

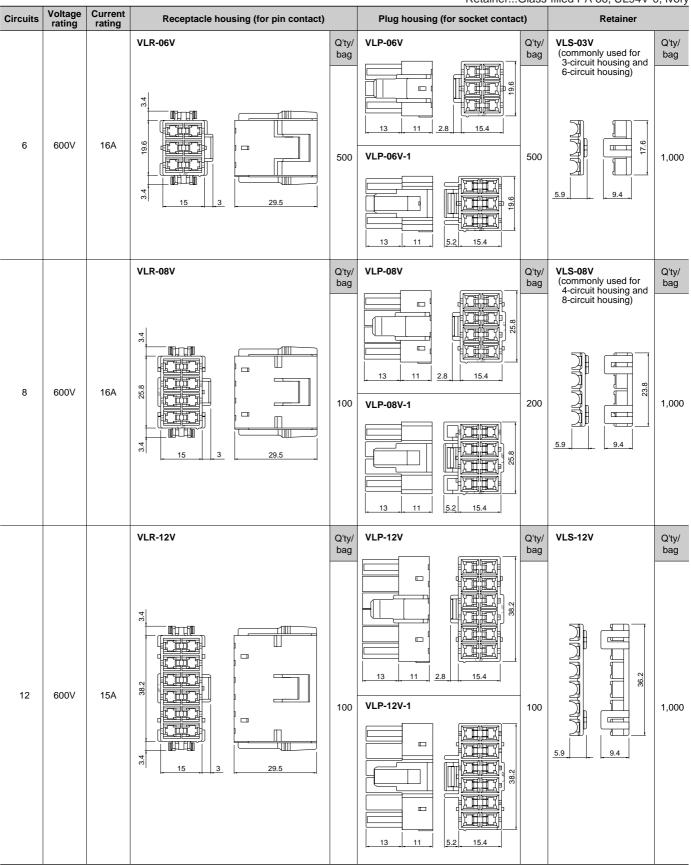
			RetainerGlass-filled PA 66, UL94V-0, ivory							
Circuits	Voltage rating	Current rating	Receptacle housing (for pin contact) Plug housing (for socket contact)			ct)	t) Retainer			
			VLR-01VF (Without panel product)	Q'ty/ bag	VLP-01V	Q'ty/ bag	VLS-01V	Q'ty/ bag		
1	600V	20A	9.2 3 29.5	500	13 11 2.8 9.4	500	7.3 9.4	1,000		
			VLR-02V 5	Q'ty/ bag	VLP-02V	Q'ty/ bag	VLS-02V (commonly used for 2-circuit housing and 4-circuit housing)	Q'ty/ bag		
2	600V	20A	VLR-02VF (Without panel lock product)	500	VLP-02V-1 13 11 2.8 8.4 VLP-02V-1 13 11 5.2 8.4	500	4-circuit housing)	1,000		
			VLR-03V	Q'ty/ bag	VLP-03V	Q'ty/ bag	VLS-03V (commonly used for 3-circuit housing and	Q'ty/ bag		
3	600V	19A	\$\frac{1}{8}\$ \\ \frac{1}{8}\$	500	VLP-03V-1 13 11 2.8 8.4 VLP-03V-1 5.2 8.4	500	6-circuit housing)	1,000		
			VLR-04V	Q'ty/ bag	VLP-04V	Q'ty/ bag	VLS-02V	Q'ty/ bag		
4	600V	18A	VLR-04VF (Without panel lock product)	500	VLP-04V-1 52 13 11 2.8 15.4 9 13 11 5.2 15.4	500	5.9 9.4	1,000		
			VLR-04VN ⊗	Q'ty/ bag	VLP-04VN-1	Q'ty/ bag	VLS-08V (commonly used for 4-circuit housing and	Q'ty/ bag		
			8 2 3 29.5 8 2 3 29.5	500	13 11 5.2 8.4	500	8-circuit housing)	1,000		

RoHS compliance
Note: 1. Contact JST for special products.
2. Contact JST for Glow Wire compliant connectors.

VL CONNECTOR

Housing

Material: Housing...PA 66, UL94V-0, white Retainer...Glass-filled PA 66, UL94V-0, ivory



RoHS compliance

Note: 1. Contact JST for special products.

2. Contact JST for Glow Wire compliant connectors.