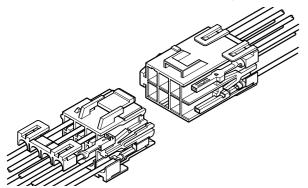


6.2mm pitch/Disconnectable Crimp style Wire-to-wire connectors (Combined use for both wire-to-board and wire-to-wire connections)



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/ $7 \text{ m}\Omega$ 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

 0.3 to 3.5 mm²

• Applicable panel thickness: 0.5 to 2.0 mm

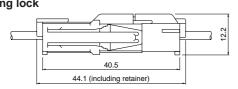
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

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.

	C	Current unit: A							
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

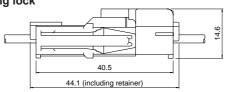
<2, 3, 4 circuits (single-row)>



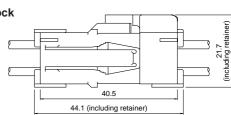
<4, 6, 8, 12 circuits>



Outer-housing lock

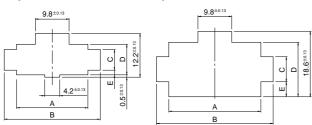


Outer-housing lock



Shape I

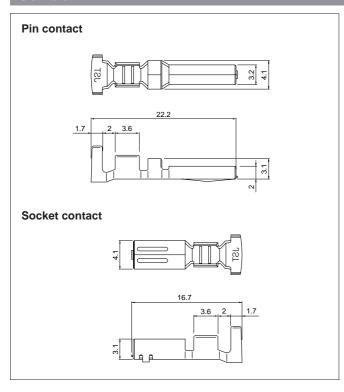
Shape II



Circuits	Receptacle housing Model No.	Panel Panel hole dimensions (mm) General tolerance A, B, D: ±0.13 C, E: ±0.1 Shape A B C D F				Applicable panel thickness (mm)		
		Jilapo	Α	В	С	D		unokness (mm)
2	VLR-02V	1	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	
4 (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.

Contact



Mode	Applica	ble wire	Insulation	Q'ty/	
Pin contact	Socket contact	mm ²	AWG #	O.D. (mm)	reel
CVM 40T DO 0	CVE 40T D0 0	0.3~1.25	22~16	1.7~3.2	
SVM-42T-P2.0	SVF-42T-P2.0	0.3+0.3~ 0.5+0.75	22+22~ 20+18	1.7+1.7~ 2.5+2.7	
CVM CAT DO O	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)

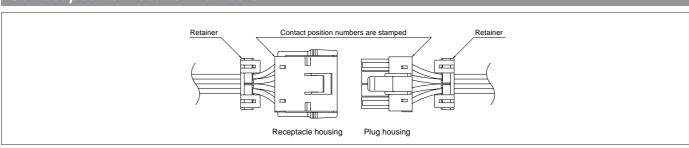
RoHS compliance

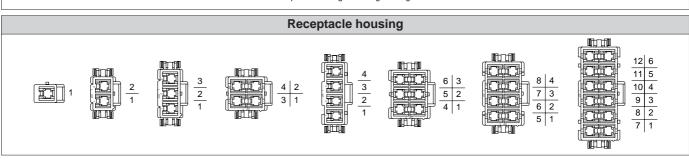
Note: Contact JST for special products.

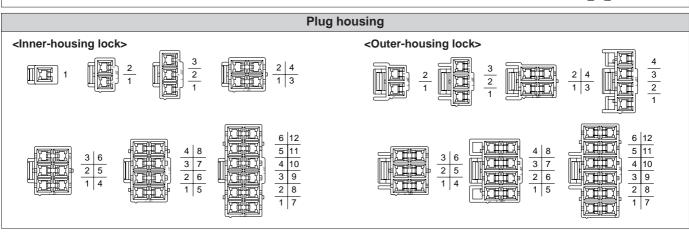
Contact	Crimping machine	Applicator					
Contact		Crimp applicator	Dies	Crimp applicator with dies			
SVM-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20			
SVF-42T-P2.0		_	_	_			
SVM-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20			
SVF-61T-P2.0	AP-NZIN	_	_	_			
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20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

Note: Contact JST for fully automatic crimping applicator.

Contact position location numbers







Housing

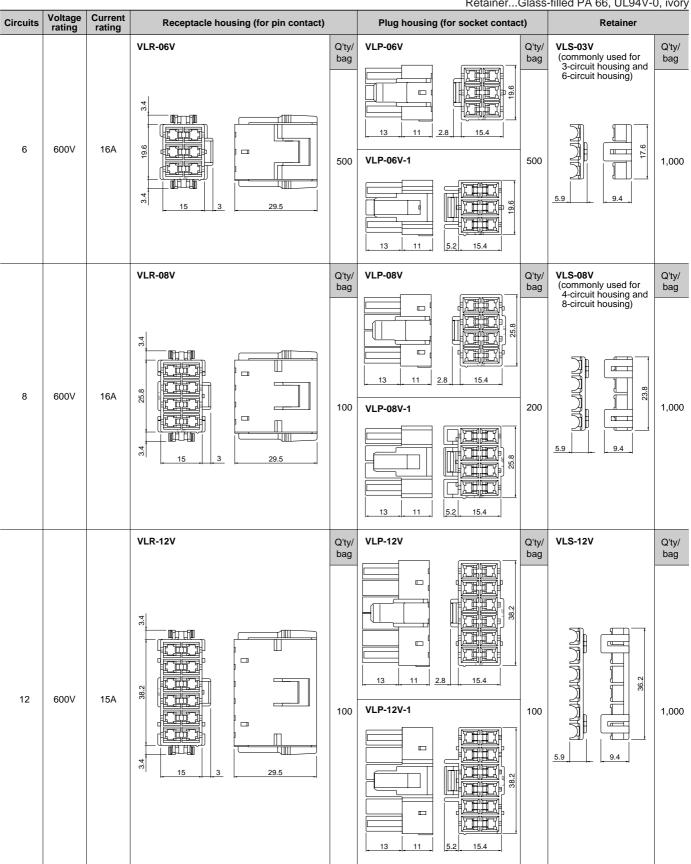
Material: Housing...PA 66, UL94V-0, white Retainer...Glass-filled PA 66, UL94V-0, ivory

		_	RetainerGlass-filled PA 66, UL94V-0, ivory							
Circuits	Voltage rating	Current rating	Receptacle housing (for pin contact	t)	Plug housing (for socket contact	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	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	500	5.9 9.4	1,000		
			VLR-03V	Q'ty/ bag	VLP-03V	Q'ty/ bag	VLS-03V (commonly used for	Q'ty/ bag		
3	600V	19A	96 8.2 3 29.5	500	VLP-03V-1 13 11 2.8 8.4	500	(commonly used for 3-circuit housing and 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 13 11 2.8 15.4 VLP-04V-1 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		
			89.5	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.

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.

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