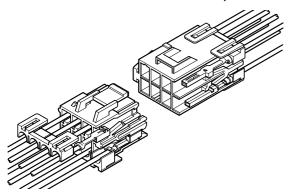


CONNECTOR

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



This VL connector is 6.2 mm pitch wire-to-wire and wire-to-board connector, designed for 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
- Retainer
- Suited for large carrent
- Panel lock

Standards -

- Recognized E60389
- ⊕ Certified LR20812
- △ R9351103

Specifications -

• Current rating: 20 A AC, DC max. (Refer to the following table.)

• 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 m Ω 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

- * 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

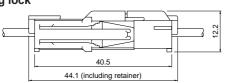
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

No. of circuits	Wire size (AWG)								
circuits	#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

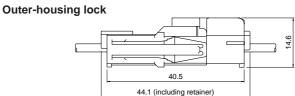
<2, 3, 4 circuits (Single-row)>

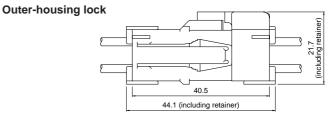




<4, 6, 8, 12 circuits>

Inner-housing lock 40.5 44.1 (including retainer)





	_									
·	No. of circuits	Receptacle housing	Panel hole	Panel hole dimensions (mm) General tolerance A, B, D: ±0.13 C, E: ±0.1					Applicable panel	
	Circuita	Model No.	shape	Α	В	С	D	E	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	
3		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
ļ		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	



Shape II

9.8^{±0.13}

2. The strength of the panel must be considered when punching two or more holes.

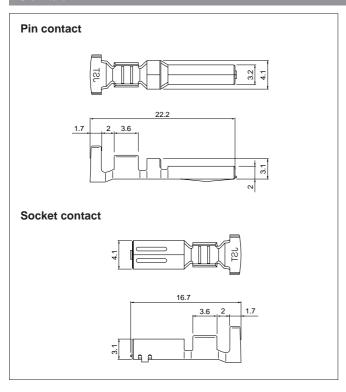
Note: 1. Punch holes in the panel according to the figures and table shown above. Burrs must be removed.

3. The connector must be inserted from the same side as the hole is punched.

Shape I

VL CONNECTOR

Contact



Mode	Applica	ble wire	Insulation	Q'ty/		
Pin contact	Socket contact	mm²	AWG #	O.D. (mm)	reel	
CVM 40T DO 0	SVF-42T-P2.0	0.3~1.25	22~16	1.7~3.2	-	
SVM-42T-P2.0	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)

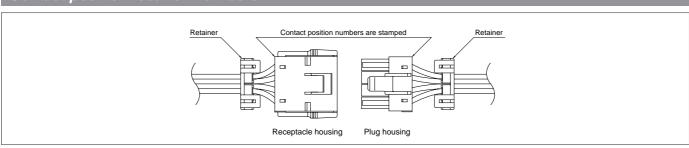
RoHS2 compliance

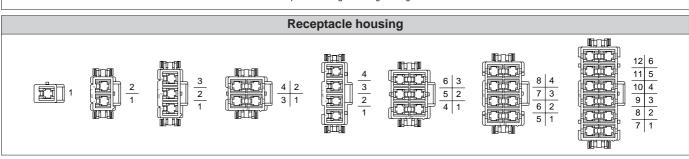
Note: Contact JST for special products.

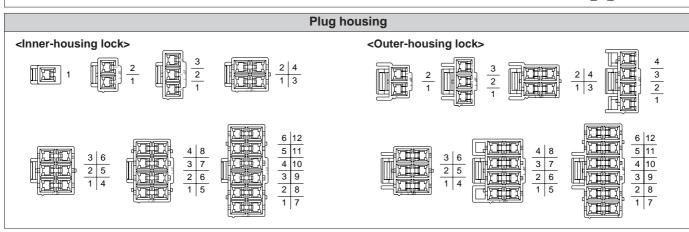
Contact	Crimping	Applicator					
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies			
SVM-42T-P2.0		MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20			
SVF-42T-P2.0		_	_	_			
SVM-61T-P2.0	AP-K2N	MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20			
SVF-61T-P2.0	AP-NZIN	_	_	_			
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20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

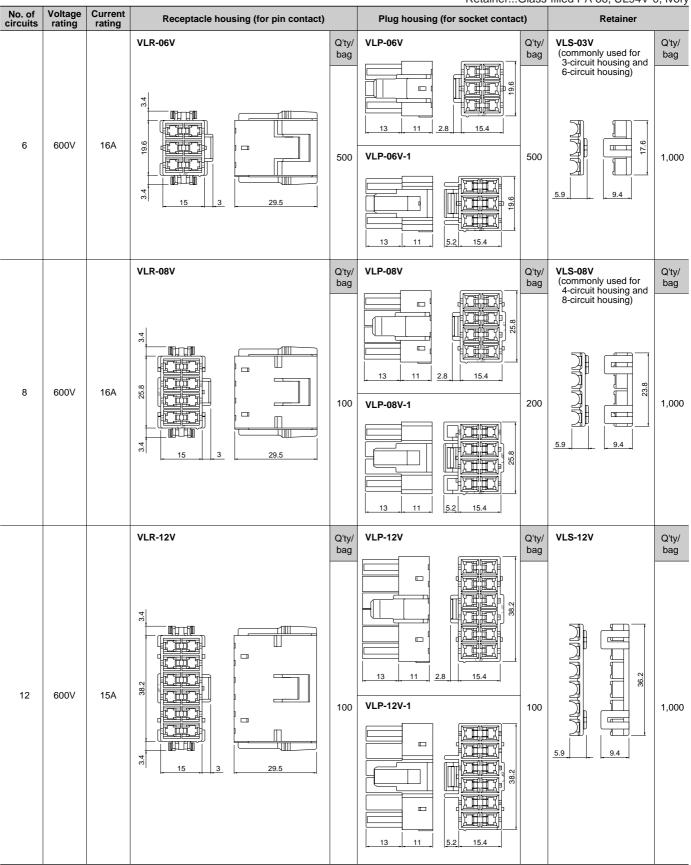
• 5		_		.Glass-filled PA 66, UL94V-0, ivory						
No. of circuits	Voltage rating	Current rating	Receptacle housing (for pin contact	t)	Plug housing (for socket contact	t)	Retainer			
			VLR-01VF (Without panel lock product)	Q'ty/ bag	VLP-01V	Q'ty/ bag	VLS-01V	Q'ty/ bag		
1	600V	20A	9.2 3 29.5	500	13 11 2.8 9.4	500	7.3 9.4	1,000		
			VLR-02V 75	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	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	\$\frac{1}{8}\$ \\ \frac{1}{8}\$	500	VLP-03V-1 13 11 2.8 8.4 VLP-03V-1 5.2 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	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		
					82 3 29.5	500	13 11 5.2 8.4	500	8-circuit housing)	1,000

RoHS2 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



RoHS2 compliance

Note: 1. Contact JST for special products.

2. Contact JST for Glow Wire compliant connectors.