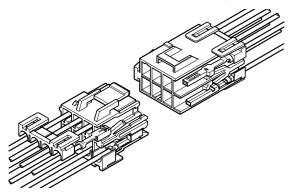


6.2mm pitch/Disconnectable Crimp style Wire-to-wire connectors (Combined use for both wire-to-wire and wire-to-board connections)



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 $\Omega$  max.

After environmental tests/ 10 m $\Omega$  max.

• Insulation resistance: 1,000 M $\Omega$  min. • Withstanding voltage: 2,000 VAC/minute • Applicable wire: AWG #22 to #12

0.3 to 3.5 mm<sup>2</sup>

• Applicable panel thickness: 0.5 to 2.0 mm

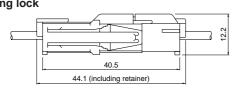
- \* In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
- \* Contact JST for details.
- \* RoHS2 compliance

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.

						Juneni unii. A		
No. of	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

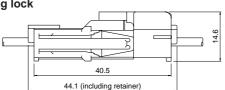
# <2, 3, 4 circuits (Single-row)>



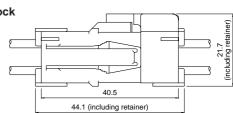
#### <4, 6, 8, 12 circuits>



#### Outer-housing lock

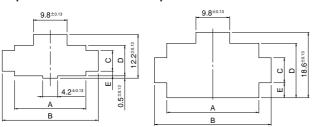


#### Outer-housing lock



#### Shape I

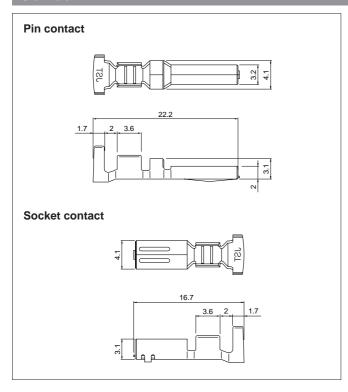
Shape II



No. of circuits	Receptacle housing	Panel hole	Panel hole dimensions (mm) General tolerance A, B, D: ±0.13 C, E: ±0.1					Applicable panel	
Circuits	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		
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	mm²	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 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)

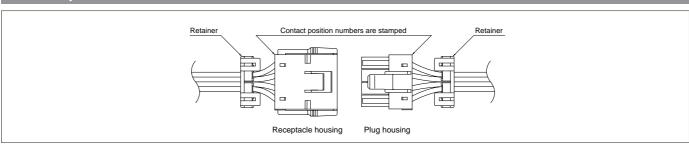
#### RoHS2 compliance

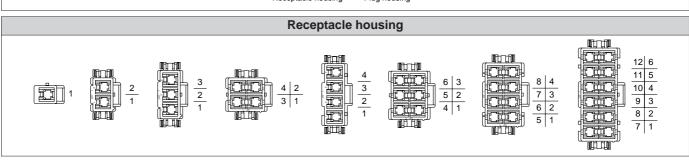
Note: Contact JST for special products.

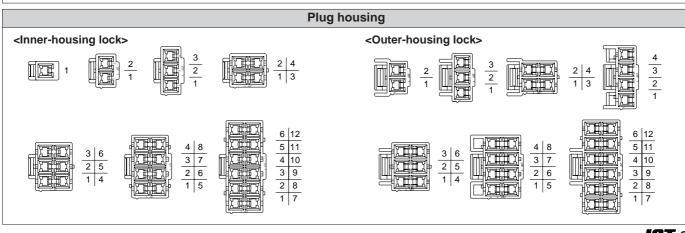
Contact	Crimping	Applicator				
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies		
SVM-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20		
SVF-42T-P2.0		_	_	_		
SVM-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20		
SVF-61T-P2.0		_	_	_		
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20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

Note: Contact JST for fully automatic crimping applicator.

#### Contact position location numbers







## Housing

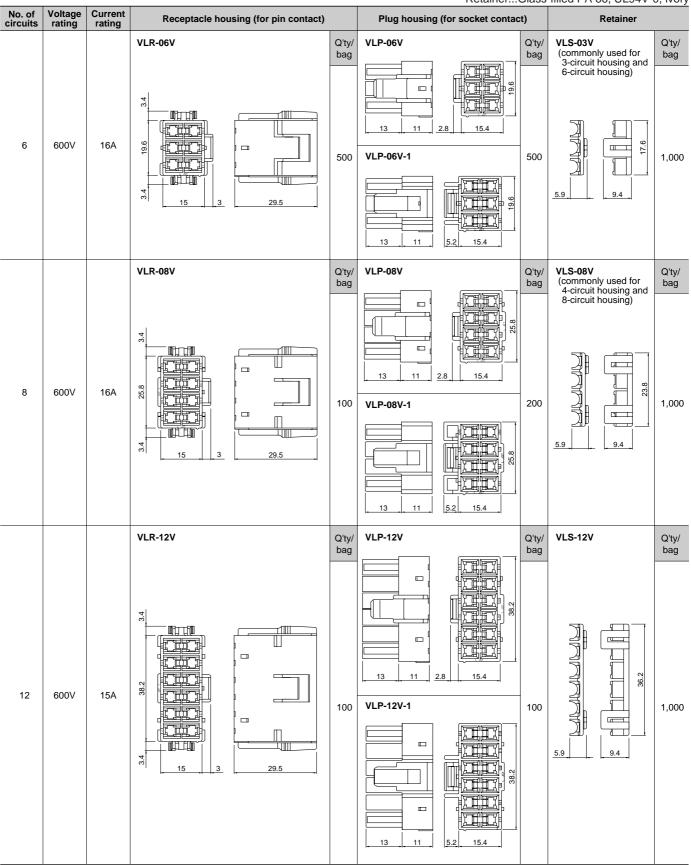
Material: Housing...PA 66, UL94V-0, white Retainer...Glass-filled PA 66, UL94V-0, ivory

No. of circuits	Voltage rating	Current	t Becauteele heusing (for nin contect) Blue heusing (for contect			Retainer		
Circuits	rating	rating	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 *E	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	500	5.9 9.4	1,000
			VLR-03V	Q'ty/ bag	VLP-03V	Q'ty/ bag	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing)	Q'ty/ bag
3	600V	19A	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	500	VLP-03V-1  13 11 2.8 8.4  VLP-03V-1	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  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
			8 8 2 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.

#### 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.

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