

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
- A R9351103

Panel layout and Assembly layout

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

Inner-housing lock



Outer-housing lock



Shape I

Shape II



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: $1,000 \text{ M}\Omega$ 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.

					L L	Surrent unit: 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	

<4, 6, 8, 12 circuits>

Inner-housing lock



Outer-housing lock



No. of 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	Ι	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	Π	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.

The strength of the panel must be considered when punching two or more holes.
The connector must be inserted from the same side as the hole is punched.

Contact



Socket contact



Model No. Applicable wire Insulation Q'ty/ Pin contact O.D. (mm) AWG # Socket contact mm² reel 1.7~3.2 0.3~1.25 22~16 SVM-42T-P2.0 SVF-42T-P2.0 1.7+1.7~ 0.3+0.3~ 22+22~ 20+18 2.5+2.7 0.5+0.75 2,000 1.9~3.4 0.5~2.0 20~14 SVF-61T-P2.0 SVM-61T-P2.0 0.5+0.5~ 20+20~ 1.9+1.9~ 2.1+2.7 0.75+1.25 18+16 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 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		-	_	-			
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20			
SVF-81T-P2.0		-	-	—			
SVF-81T-P2.0		MKS-L	_	APLMK S			

Note: Contact JST for fully automatic crimping applicator.

Contact position location numbers



JST 2

Housing



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

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2. Contact JST for Glow Wire compliant connectors.