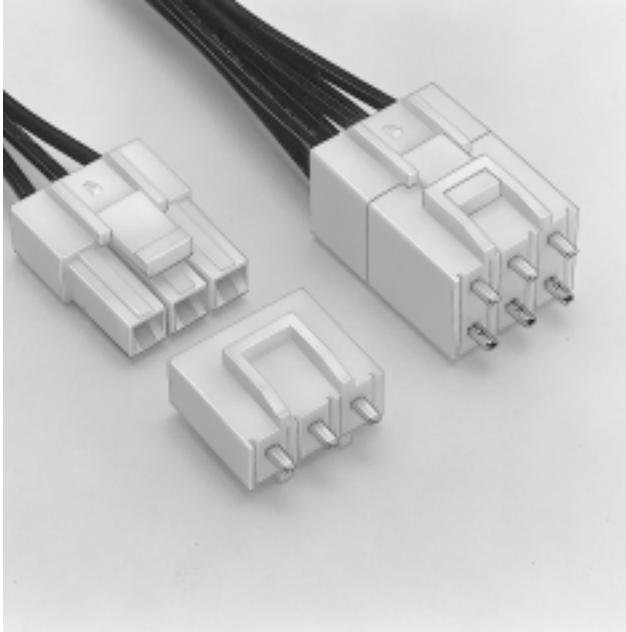
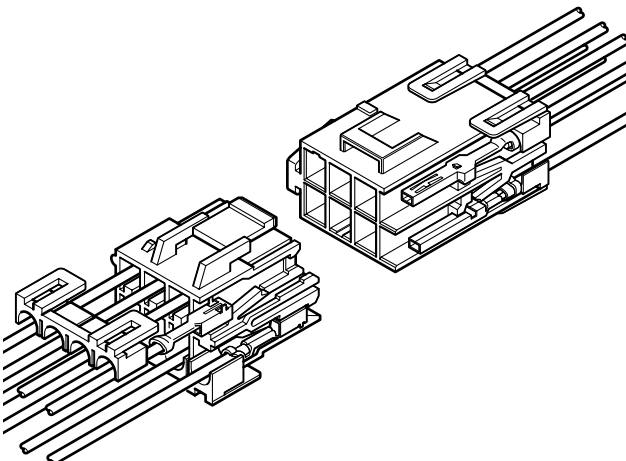


JST**Crimp****6.2mm**
(.244") pitch

VL CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors

The VL connector is a 6.2mm (.244") pitch wire-to-wire connector designed for circuits requiring up to 20A (1 or 2-circuit with AWG #12 wire).



Features

- **Housing lances for contact retention**

Since the contact retention lances are part of the housing rather than protruding from the contact, they cannot be damaged by handling. They allow the contact to be easily inserted and securely locked into the housing.

- **Secondary retainer**

The secondary retainer is optionally available. This retainer ensures that the contacts are fully seated and locked in the housing and prevents their accidental release. Installed after the contacts are inserted, it locks and secures the contact.

- **Suited for circuits with high power requirements**

Since these contacts have large cross-sectional areas and high contact pressure, they can accommodate circuits requiring high power.

- **Panel lock construction**

Our unique space-saving panel lock is designed to prevent tangling with wires or breaking in cold or dry weather.

Note: The current rating differs 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: A

Circuits	Wire size (AWG)				
	#12	#14	#16	#18	#20
1	20	15	10	8	6
2	20	15	10	8	6
3	19	14	9	8	6
4	18	13	9	7	6
6	16	12	8	7	5
8	16	11	7	6	5
12	15	10	7	6	4

Specifications

- Current rating: 20.0A AC, DC max.
 - Voltage rating: 600V AC, DC max. 300V in accordance with the Electrical Appliance and Material Control Law in Japan)
 - Temperature range: -25°C to +90°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/7m Ω max.
After environmental testing/10m Ω max.
 - Insulation resistance: 1,000MΩ min.
 - Withstanding voltage: 2,000V AC/minute
 - Applicable wire: AWG #22 to #12 (0.3 to 3.5mm²)
 - Applicable panel thickness: 0.5 to 2.0mm (.020" to .079")
- *Contact JST for details.

Standards

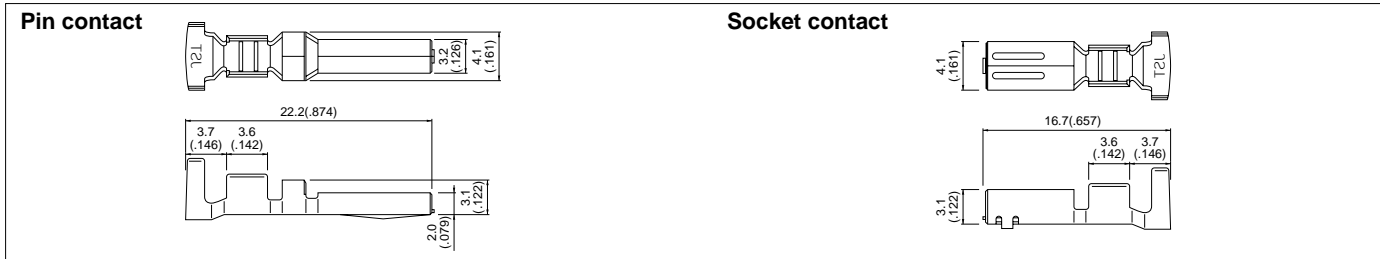
Recognized E60389

Certified LR20812

R9351103

VL CONNECTOR

Contact



Model No.		Applicable wire			Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #	Insulation O.D. mm(in.)	
SVM-42T-P2.0	SVF-42T-P2.0	0.3 to 1.25	22 to 16	1.7 to 3.2(.067+.126)	2,000
		0.3+0.3 to 0.5+0.75	22+22 to 20+18	1.7+1.7 to 2.5+2.7 (.067+.067 to .098+.106)	
SVM-61T-P2.0	SVF-61T-P2.0	0.5 to 2.0	20 to 14	1.9 to 3.4(0.75 to 1.34)	
		0.5+0.5 to 0.75+1.25	20+20 to 18+16	1.9+1.9 to 2.1+2.7 (0.75+0.75 to .083+.106)	
SVM-81T-P2.0	SVF-81T-P2.0	3.5	12	4.1(.161)	

Material and Finish

Phosphor bronze, Tin-plated

- Note: 1. Contact JST for special products.
 2. Retainers cannot be used for the 81 type.
 3. SVM-42T-P2.0 and SVF-42T-P2.0 are not UL recognized or CSA certified nor TÜV approved.

Housing

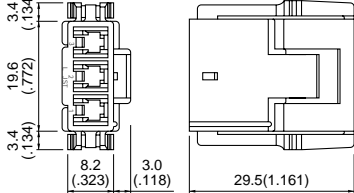
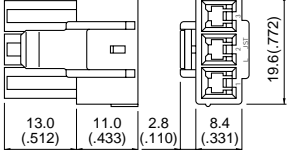
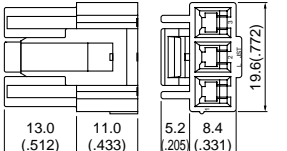
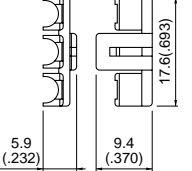
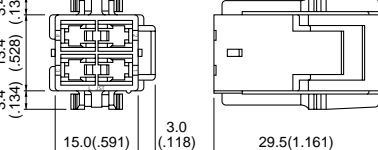
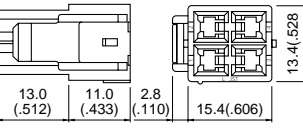

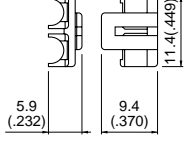
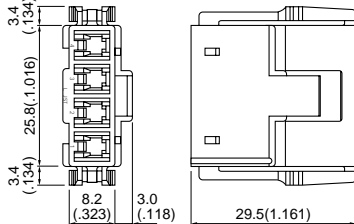

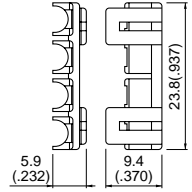
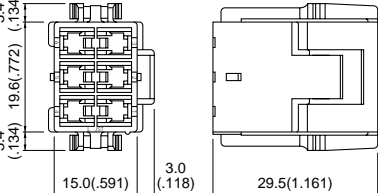
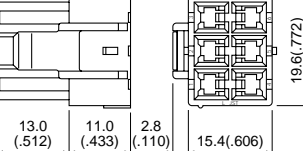
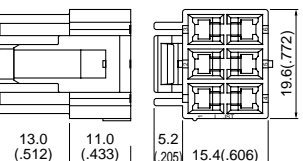
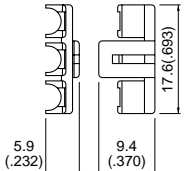
Material: Housing...Nylon 66, UL94V-0, white
 Retainer...Glass-filled nylon 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
1	600V	20.0A	VLR-01VF 	VLP-01V 	VLS-01V
2	600V	20.0A	VLR-02V 	VLP-02V VLP-02V-1 	VLS-02V (commonly used for 2-circuit housing and 4-circuit housing)

VL CONNECTOR

Housing

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

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Plug housing(for socket contact)	Retainer
3	600V	19.0A	VLR-03V 	VLP-03V  VLP-03V-1 	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing) 
			Q'ty / bag	500	Q'ty / bag
4	600V	18.0A	VLR-04V 	VLP-04V  VLP-04V-1 	VLS-02V 
			Q'ty / bag	500	Q'ty / bag
4	600V	18.0A	VLR-04VN 	VLP-04VN-1 	VLS-08V (commonly used for 4-circuit housing and 8-circuit housing) 
			Q'ty / bag	500	Q'ty / bag
6	600V	16.0A	VLR-06V 	VLP-06V  VLP-06VN-1 	VLS-03V (commonly used for 3-circuit housing and 6-circuit housing) 
			Q'ty / bag	500	Q'ty / bag

VL CONNECTOR

Housing

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

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag	Retainer	Q'ty / bag
8	600V	16.0A	VLR-08V 	500	VLP-08V 	500	VLS-08V (commonly used for 4-circuit housing and 8-circuit housing) 	1,000
					VLP-08V-1 			
12	600V	15.0A	VLR-12V 	100	VLP-12V 	100	VLS-12V 	1,000
					VLP-12V-1 			

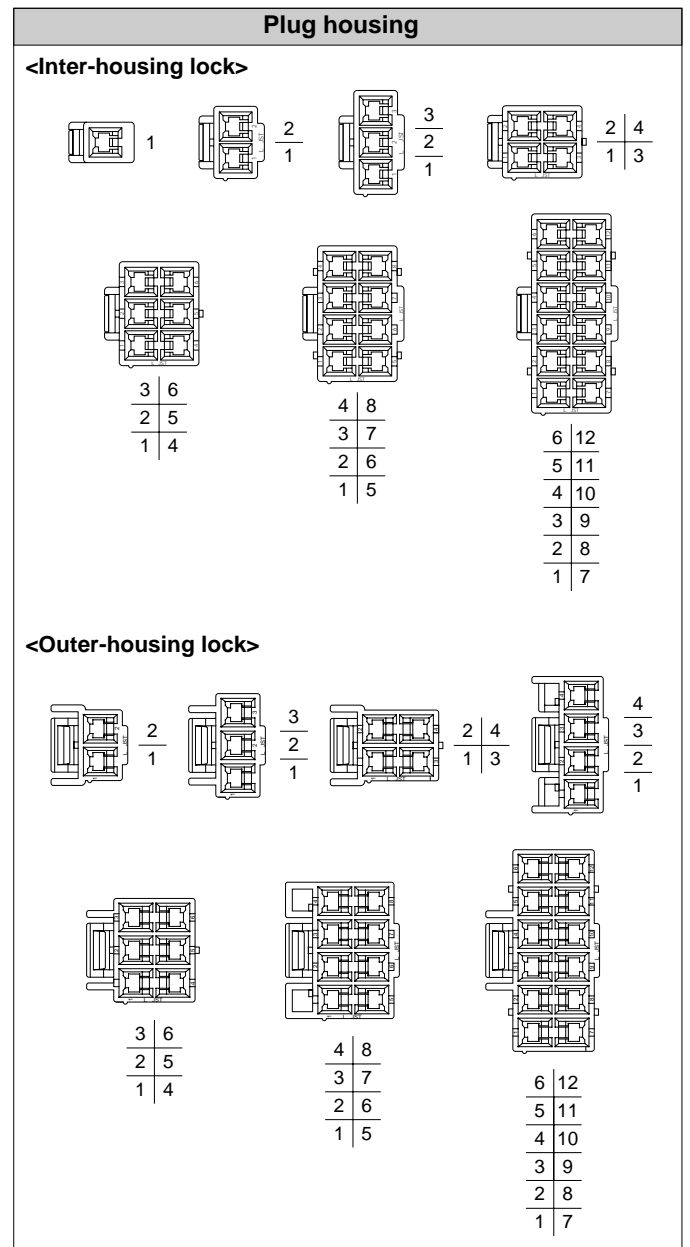
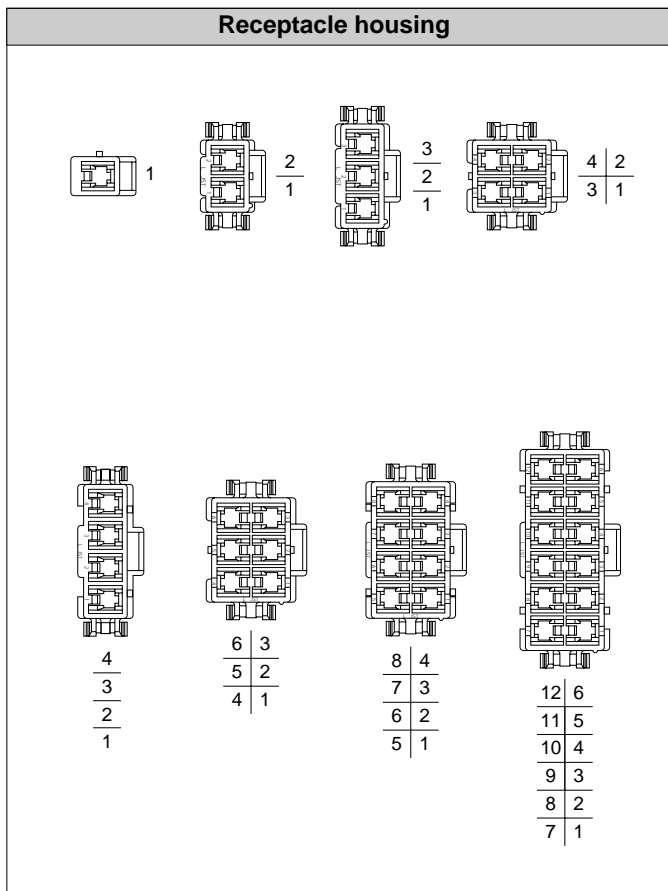
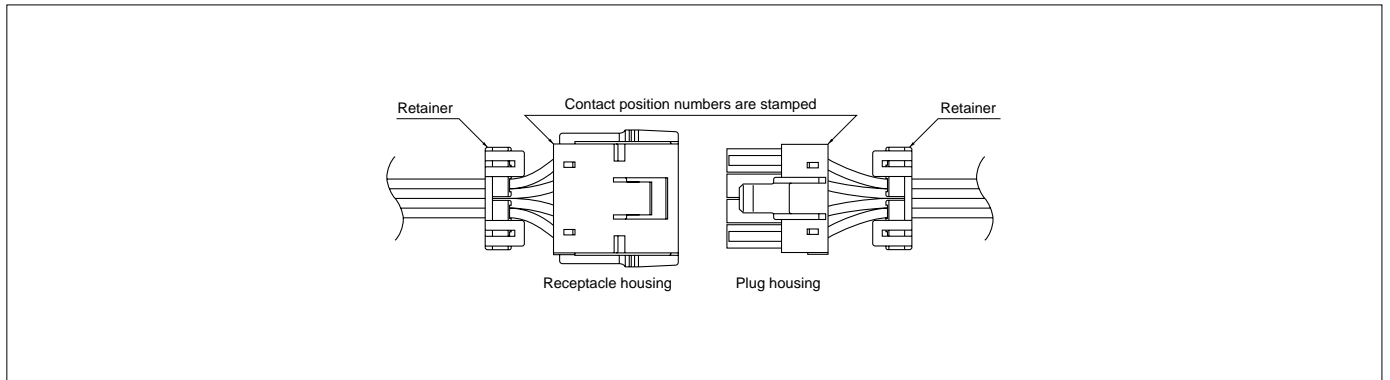
Note:

1. VLR-01VF is exclusively for free hanging. The other circuits can be used either panel mounted or free hanging.

Contact JST for special products.

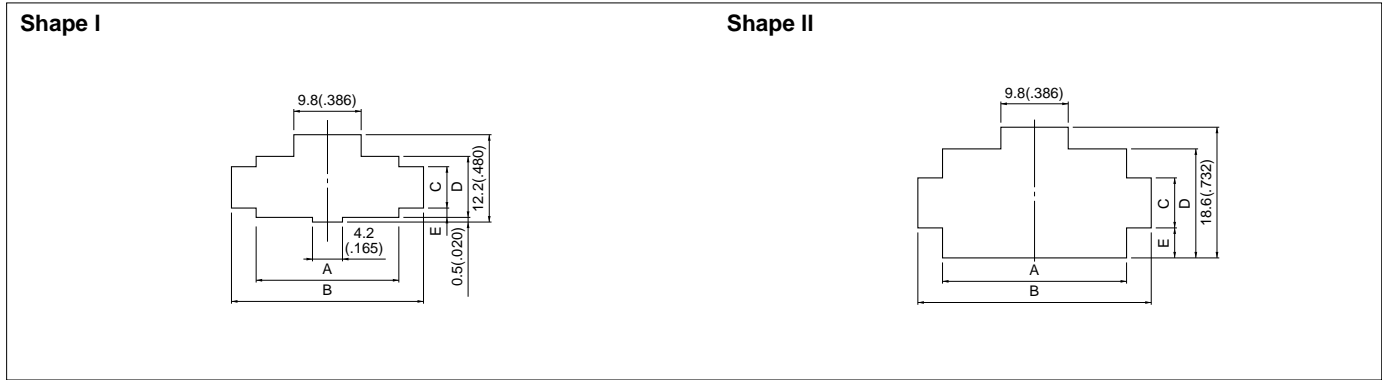
2. Models VLP-##V-1 are not TÜV approved.

Contact position location numbers



VL CONNECTOR

Panel layout



Circuits	Housing Model No.	Panel hole shape	Panel hole dimensions mm(in.)		General tolerance A,B,D: 0.13 (±005) C,E: 0.1 (±004)			Applicable panel thickness mm(in.)
			A	B	C	D	E	
2	VLR-02V	I	13.8(.543)	20.6(.811)	5.7(.224)	8.5(.335)	1.4(.055)	0.5 to 2.0 (.020 to .079)
3	VLR-03V	I	20.0(.787)	26.8(1.055)	5.7(.224)	8.5(.335)	1.4(.055)	
4	VLR-04V	II	13.8(.543)	20.6(.811)	7.0(.276)	15.4(.606)	4.2(.165)	
4 (Single-row)	VLR-04VN	I	26.2(1.031)	33.0(1.299)	5.7(.224)	8.5(.335)	1.4(.055)	
6	VLR-06V	II	20.0(.787)	26.8(1.055)	7.0(.276)	15.4(.606)	4.2(.165)	
8	VLR-08V	II	26.2(1.031)	33.0(1.299)	7.0(.276)	15.4(.606)	4.2(.165)	
12	VLR-12V	II	38.9(1.531)	45.4(1.787)	7.0(.276)	15.4(.606)	4.2(.165)	

Note:

1. Punch holes in the panel according to the sketch 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.

Assembly layout

