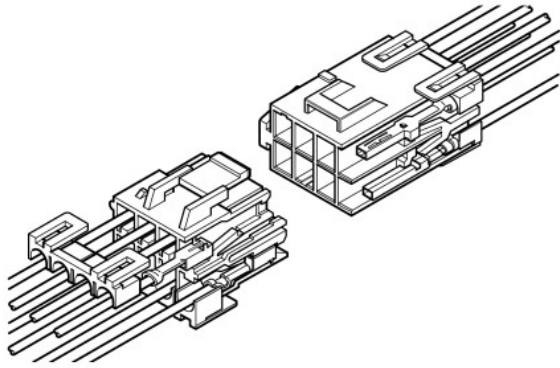




VL CONNECTOR

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 current
- 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 mΩ max.
After environmental tests/ 10 mΩ 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
- * 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

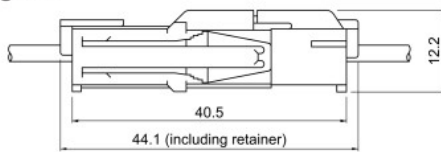
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

No. of circuits	Wire size (AWG)					
	#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

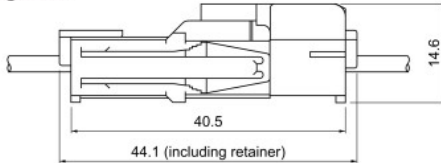
Current unit: A

Panel layout and Assembly layout

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

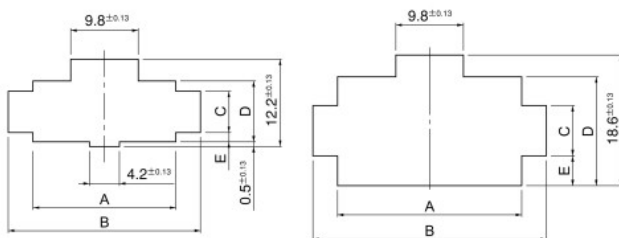


Outer-housing lock

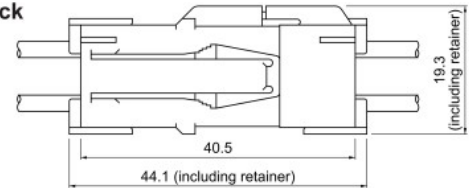


Shape I

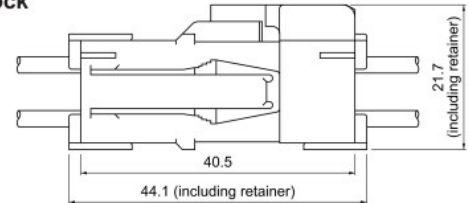
Shape II



<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)					Applicable panel thickness (mm)
			General tolerance A, B, D: ±0.13 C, E: ±0.1					
			A	B	C	D	E	
2	VLR-02V	I	13.8	20.6	5.7	8.5	1.4	0.5~2.0
3	VLR-03V	I	20.0	26.8	5.7	8.5	1.4	
4	VLR-04V	II	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	
6	VLR-06V	II	20.0	26.8	7.0	15.4	4.2	
8	VLR-08V	II	26.2	33.0	7.0	15.4	4.2	
12	VLR-12V	II	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.