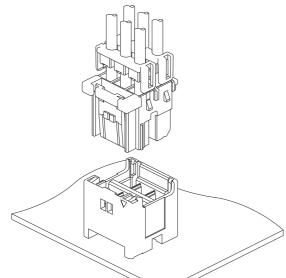


5.0mm pitch/Disconnectable Crimp style connectors



This HYV connector is 5.0 mm pitch wireto-board type connector and has the mechanism to supperss the incomplete mating in mating operation.

Box-shaped contact to prevent the influence by external forces, thereby increasing safety of large current circuit connection. 4 type key patterns prevents mismatching insertion when using multiple pieces connector in the same model.

- Keying structure
- Secure locking structure
- Inertia lock structure
- Retainer mountable type
- Header for use specifically with resin coated ("potted") PC board.

Specifications -

- Current rating: 10 A AC, DC (Refer to the table below.)
- Voltage rating: 300 V AC, DC
- Temperature range: -30°C to +105°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/ 10 mΩ max.

After environmental tests/ 20 m Ω max.

- Insulation resistance: 1,000 M Ω min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: Conductor size 21 type/ AWG #22 to #18

41 type/ AWG #18 to #16

Insulation O.D. 21 type/ 1.8 mm to 2.7 mm

41 type/ 2.3 mm to 3.0 mm

(41 type: Insulation O.D. when mounting a retainer/

2.3 mm to 2.9 mm)

• Applicable PC board thickness: 1.6 mm

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)				
Circuits	#16	#18	#20	#22		
2		10	7	5	3	
3		9	7	5	3	
4		9	7	5	3	
6		8	7	5	3	

Note: Do not branch in parallel current which exceeds the rated current (e.g. more than 10 A in the case of 2 circuits with AWG #16). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

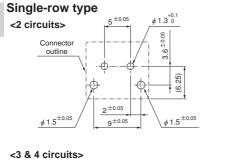
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.
- * Compliant with RoHS.

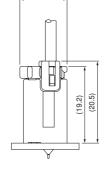
Standards -

Recognized E60389

Certified LR20812

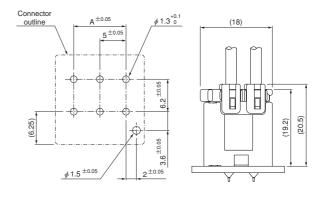
PC board layout and Assembly layout





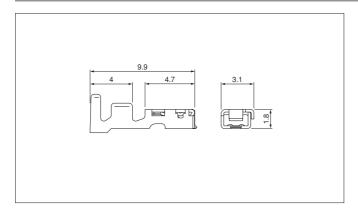
(11.8)

Double-row type <4 & 6 circuits>



- Note: 1. The above figure is the figure viewed from the connector mounting side .
 - 2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
 - 3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applica	ble wire	Insulation O.D.	Q'ty/ reel	
Wodel No.	mm²	AWG#	(mm)		
SHYVF-21T-M0.5	0.33~0.83	22~18	1.8~2.7	4,000	
SHYVF-41T-M0.5	0.83~1.25	18~16	2.3~3.0	3,000	

Material and Finish

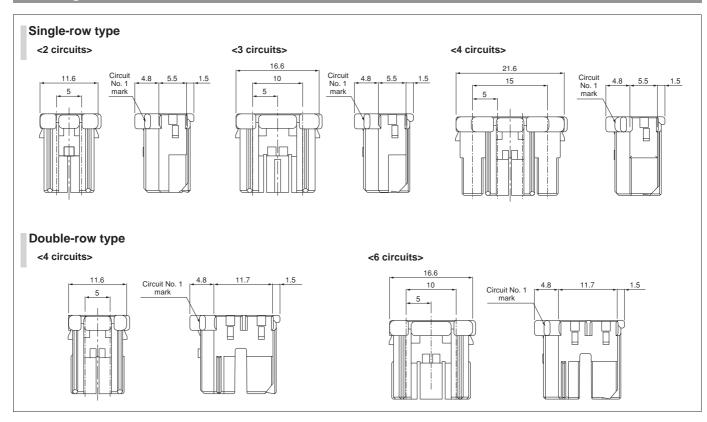
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: Insulation O.D. of 41 barrel when mounting a retainer shall be 2.3 mm to 2.9 mm dia.

	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SHYVF-21T-M0.5	AP-K2N	MKS-L	MK/SHYVF-21-05	APLMK SHYVF21-05	
3HTVF-2TT-WU.3		_	_	_	
SHYVF-41T-M0.5		MKS-L	MK/SHYVF-41-05	APLMK SHYVF41-05	
3111 41-411-100.3		-	_	_	

Housing



Туре	Circuits	Model No.	
Single- row type	2	HYVRP-02V-A-S	1,000
	3	HYVRP-03V-A-S	1,000
	4	HYVRP-04V-A-S	600
Double- row type	4	HYVRP-04V-W-A-S	600
	6	HYVRP-06V-W-A-S	600

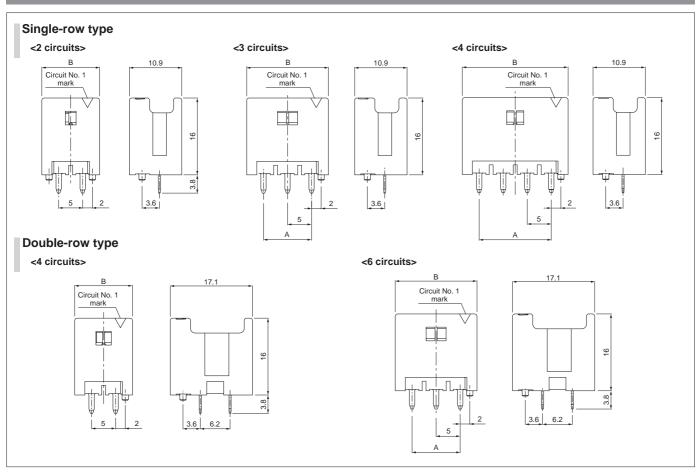
Material

Glass-filled PA 66, UL94V-0, natural

RoHS compliance

Note: Contact JST for key pattern.

Shrouded header



Туре	Circuits	Model No.	Dimensions (mm)		Q'ty/
		Model No.	Α	В	box
	2	B02B-HYVSS-A-1	_	12.0	150
Single- row type	3	B03B-HYVSS-A-1	10.0	17.0	100
	4	B04B-HYVSS-A-1	15.0	22.0	100
Double- row type	4	B04B-HYVSS-A-1W	_	12.0	100
	6	B06B-HYVSS-A-1W	10.0	17.0	50

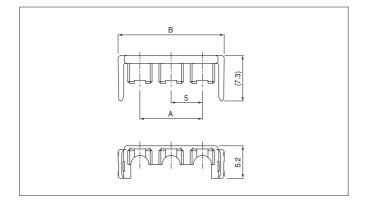
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0

RoHS compliance

Note: Contact JST for key pattern.

Retainer



Circuits	Model No.	Dimensio	Q'ty/	
		Α	В	bag
2	HYVS-02V	_	12.0	2,000
3	HYVS-03V	10.0	17.0	2,000
4	HYVS-04V	15.0	22.0	1,000

Material

Glass-filled PA 66, UL94V-0, natural

RoHS compliance

Contact position location numbers

