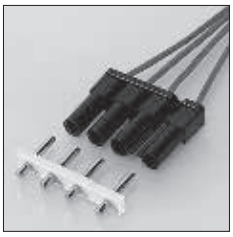
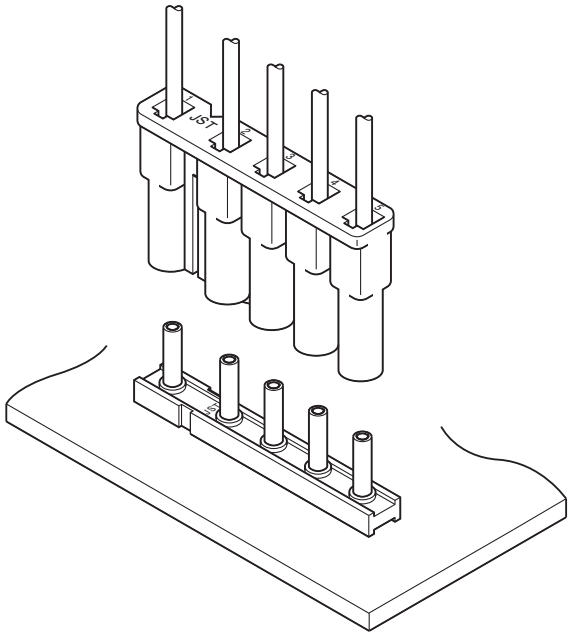


LV CONNECTOR

8.0 mm pitch/Wire-to-Board connectors/Crimp style and Mating style



This is a large pitch board-to-wire connector with 8.0 mm spacing between pins suitable for power supply applications in various household electrical and electronic equipment.

■ Features

• 3 contact point design between header pin and contact when mated.

This 7 mm length pin has a triangular configuration whereby the contact mates with the header pin at three different points. With a header pin diameter of 2.36 mm, this connector provides stable contact performance with currents up to 7 A. The mated contact area has a self-protective design to prevent performance deteriortion due to excessive enternal forces from improper handling related prying insertion and removal.

• Connector polarization to preven mismating

The pitch between positions 1 and 2 on the header with 3 or more pins is 10.0 mm while the remaining positions have 8.0 mm pitch.

• Flux entry prevention

The solder end of the hollow pin is closed so as to completely prevent flux or solder from entering.
The pin is tightly press-fit into the header insulator to prevent flux from coming up the pin.
Note: This feature applies to TN type LV header with hollow pins. TA type LV header comes with solid pins.

■ Standards

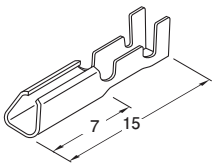
:Recognized E 60389
:Certified LR 20812
:R75121

■ Specifications

• Current rating:
SVF-01T-2.36N: 5 A AC/DC (AWG #20)
SVF-01T-2.36LN: 7 A AC/DC (AWG #18)
• Voltage rating: 250 V AC/DC
• Temperature range: −25℃ to +85℃
(including temperature rise in applying electrical current)
• Contact resistance:
Initial value/ 10 mΩ max.
After environmental tests/ 20 mΩ max.
• Insulation resistance: 1,000 MΩ min.
• Withstanding voltage:
There shall be no breakdown or flashover while applying 1,500 VAC for one minute.
• Applicable wire range:
SVF-01T-2.36N:
Conductor size/ AWG #24 to AWG #20
Insulation O.D./ φ1.4 mm to φ2.7 mm
SVF-01T-2.36LN:
Conductor size/ AWG #24 to AWG #18
Insulation O.D./ φ1.4 mm to φ2.9 mm
• Applicable PC board thickness: 1.6 mm

* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

Contact

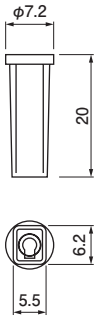


Model No.	Applicable wire range		Q'ty/ reel
	Conductor size AWG (mm²)	Insulation O.D. (mm)	
SVF-01T-2.36N	#24 to #20 (0.2 to 0.5)	1.4 to 2.7	15,000
SVF-01T-2.36LN	#24 to #18 (0.2 to 0.83)	1.4 to 2.9	5,000

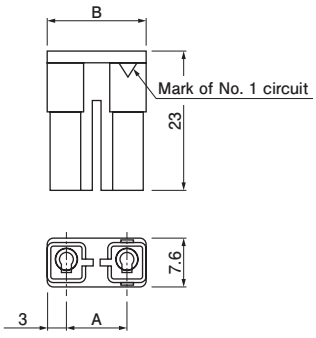
Material and Surface finish, etc.
Phosphor bronze, tin-plated

Housing

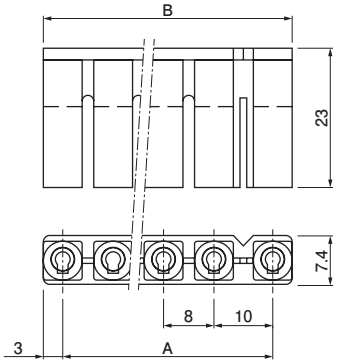
<1 circuit>



<2 circuits>



<3 to 6 circuits>



No. of circuits	Model No.		Dimensions (mm)		Q'ty/bag
	Modified PPE	PBT	A	B	
1	**S1P-LV**	**S1P-LV-P**	—	—	1,000
2	**2P-LV**	**2P-LV-P**	10.0	16.0	
3	**3P-LV**	**3P-LV-P**	18.0	24.0	500
4	**4P-LV**	**4P-LV-P**	26.0	32.0	
5	**5P-LV**	**5P-LV-P**	34.0	40.0	
6	**6P-LV**	**6P-LV-P**	42.0	48.0	

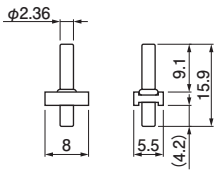
Material and Surface finish, etc.
S1P-LV, ( ) P-LV: Modified PPE, UL94V-0, gray S1P-LV-P, ( ) P-LV-P: PBT, UL94V-0, black

Note: Caution during use
Modified PPE is an engineering plastic with various excellent physical properties. However, it is vulnerable to organic solvents (toluene, benzene, carbon tetrachloride, gasoline, etc.). Therefore, please avoid using modified PPE products in environments where organic solvents are present.

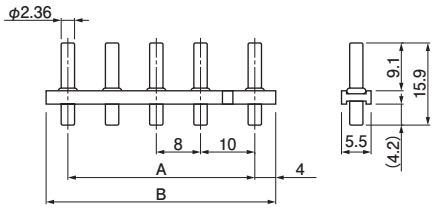
Header

TN type

<1 circuit>

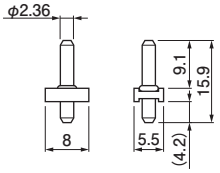


<2 to 6 circuits>



TA type

<1 circuit>



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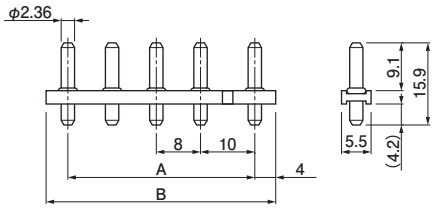


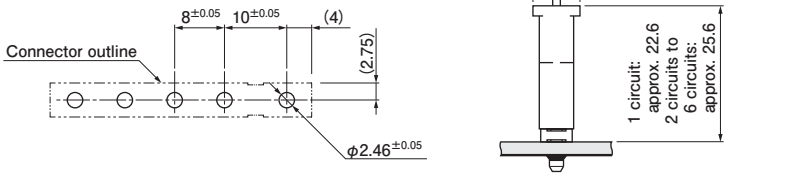
Type	No. of circuits	Model No.	Dimensions (mm) A	Dimensions (mm) B	Q'ty/ box	Applicable contact
TN type	1	B1P-LV-TN	—	—	1,000	SVF-01T-2.36N
	2	B2P-LV-TN	10.0	18.0	500	
	3	B3P-LV-TN	18.0	26.0	500	
	4	B4P-LV-TN	26.0	34.0	250	
	5	B5P-LV-TN	34.0	42.0	200	
	6	B6P-LV-TN	42.0	50.0	200	
TA type	1	B1P-LV-TA	—	—	1,000	SVF-01T-2.36N
	2	B2P-LV-TA	10.0	18.0	500	SVF-01T-2.36LN
	3	B3P-LV-TA	18.0	26.0	500	
	4	B4P-LV-TA	26.0	34.0	250	SVF-01T-2.36LN
	5	B5P-LV-TA	34.0	42.0	200	

Material and Surface finish, etc.

Pin :
TN type: Brass, nickel-plated
TA type: Brass, Nickel-undercoated, tin/copper alloy-plated
Wafer: PA 66 (Glass-filled), UL94V-0, natural

Note: TA type products display (LF) on a label.

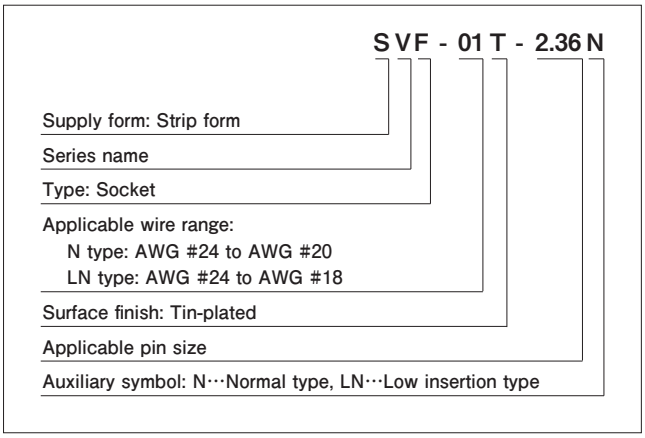
PC board layout and Assembly layout



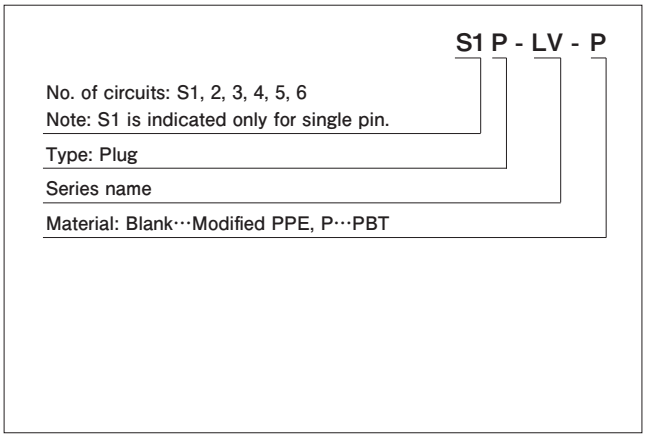
Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.
2. Tolerance for PCB hole pitch shall be ± 0.05 and shall not accumulate.
3. Hole dimensions differ according to the type of PC board and piercing method.
The above dimensions are reference values. Please contact JST for details.

Model number allocation

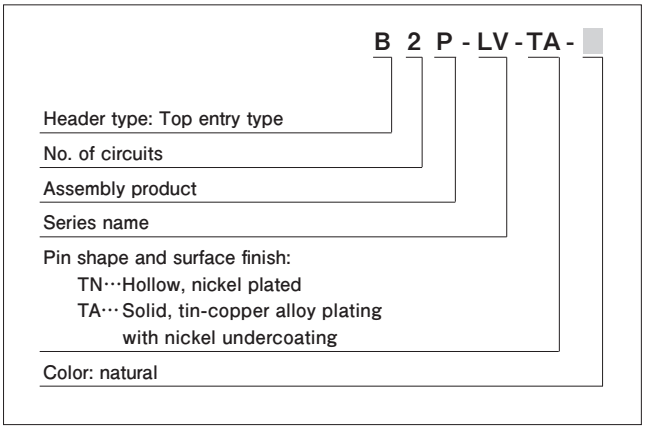
Contact



Housing



Header



Crimping machine, Applicator

Contact	Crimping machine	Applicator	Crimp applicator with dies
SVF-01T-2.36N	AP-K2N	MK-L	APLMK SVF01-236N
SVF-01T-2.36LN		MKS-L	APLMK SVF01-236LN

Note: Contact JST for fully automatic crimping applicator.