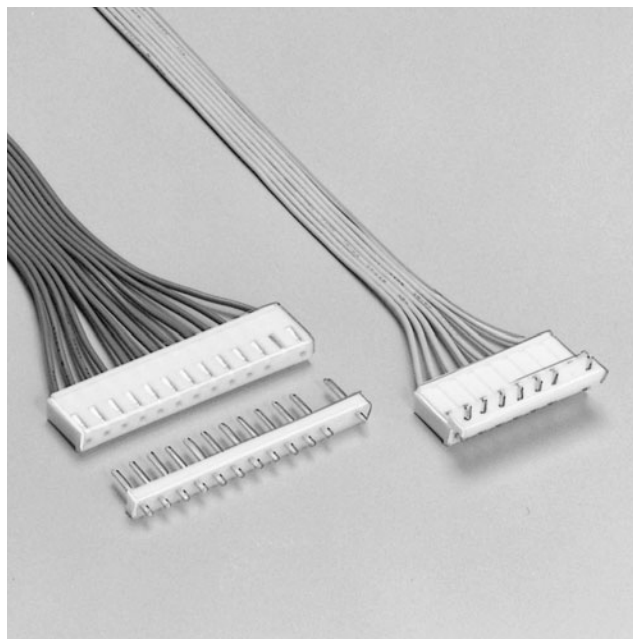
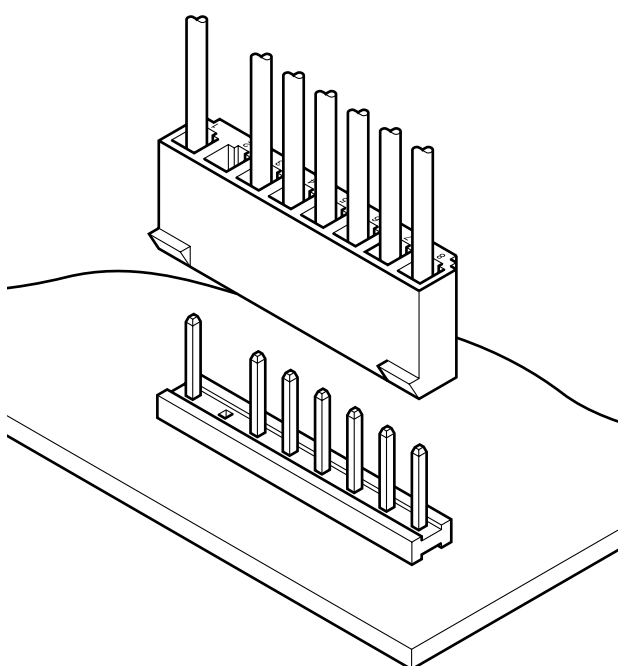


# VB CONNECTOR

Disconnectable Crimp style connectors



**This large current carrying capacity connector for printed circuit boards can be used with primary power supply circuits of consumer electronic products and various other circuits requiring large currents.**



## Features

### • Proven box-shaped contact

This connector was designed and developed for use in the power supply circuits utilizing the contacts so successfully used in the VH connector.

## Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m max.  
After environmental testing/20m max.
- Insulation resistance: 500M min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm

*Note:*

*Do not branch in parallel current which exceeds the rated current. 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 imbalance and provide an extra margin for each circuit.*

- \* RoHS compliant products are published.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

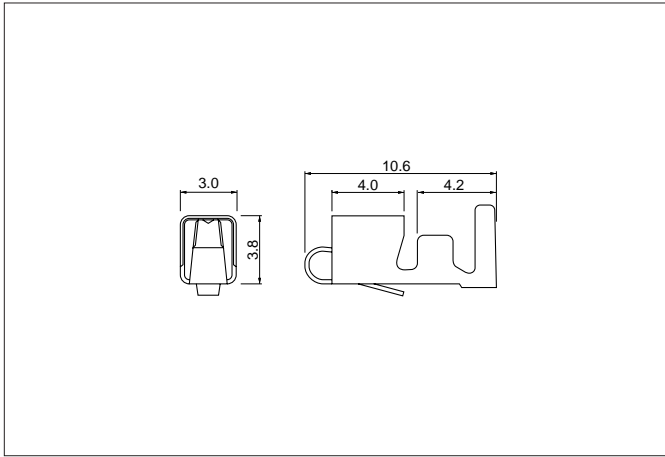
## Standards

Recognized E60389

Certified LR20812

# VB CONNECTOR

## Contact



Model No.	Applicable wire			Q'ty / reel
	mm <sup>2</sup>	AWG #	Insulation O.D. (mm)	
<b>SVH-21T-P1.1</b>	0.33 to 0.83	22 to 18	1.7 to 3.0	4,500

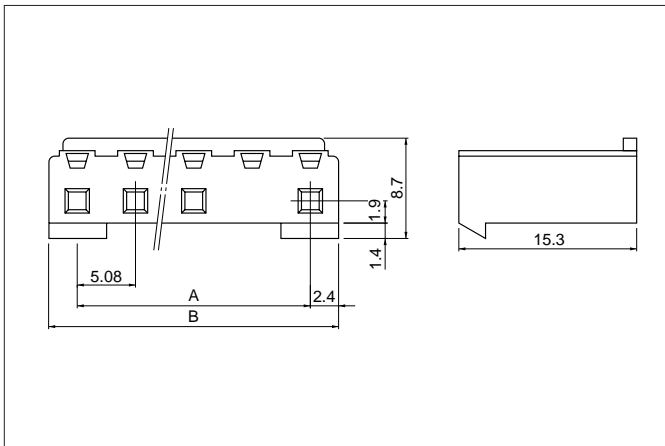
### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

### RoHS compliance

Note: Contact JST for brass products.

## Housing



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	<b>VBR- 2</b>	5.08	9.88	1,000
2	<b>VBR- 2(3)</b>	10.16	14.96	1,000
3	<b>VBR- 3</b>	10.16	14.96	1,000
3	<b>VBR- 3(4)</b>	15.24	20.04	1,000
4	<b>VBR- 4</b>	15.24	20.04	1,000
4	<b>VBR- 4(5)</b>	20.32	25.12	1,000
5	<b>VBR- 5(6)</b>	25.40	30.20	500
6	<b>VBR- 6(7)</b>	30.48	35.28	500
7	<b>VBR- 7(8)</b>	35.56	40.36	500
8	<b>VBR- 8(9)</b>	40.64	45.44	500
9	<b>VBR- 9(10)</b>	45.72	50.52	500
12	<b>VBR-12(13)</b>	60.96	65.76	200

### Material

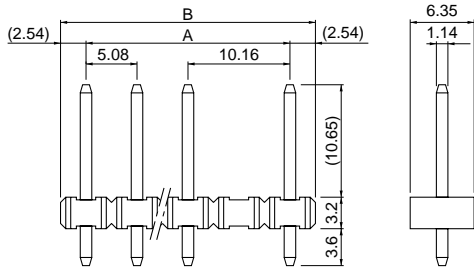
PA 6, UL94V-0, natural (white)

### RoHS compliance

# VB CONNECTOR

## Header

Top entry type of PBT



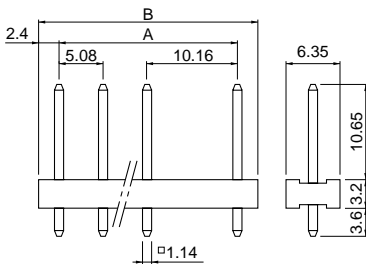
Cir- cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	<b>B 2P -VB-2</b>	5.08	10.16	1,000
2	<b>B 2P 3-VB-2</b>	10.16	15.24	500
3	<b>B 3P -VB-2</b>	10.16	15.24	500
3	<b>B 3P 4-VB-2</b>	15.24	20.32	500
4	<b>B 4P -VB-2</b>	15.24	20.32	500
4	<b>B 4P 5-VB-2</b>	20.32	25.40	250
5	<b>B 5P 6-VB-2</b>	25.40	30.48	250
6	<b>B 6P 7-VB-2</b>	30.48	35.56	200
7	<b>B 7P 8-VB-2</b>	35.56	40.64	200
8	<b>B 8P 9-VB-2</b>	40.64	45.72	200
9	<b>B 9P10-VB-2</b>	45.72	50.80	100
12	<b>B12P13-VB-2</b>	60.96	66.04	100

### Material and Finish

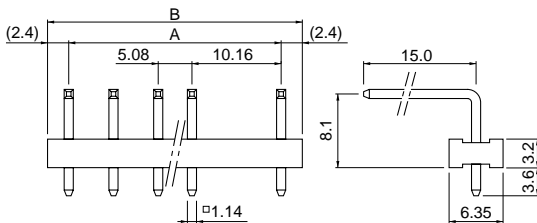
Post: Brass copper-undercoated, tin-plated (reflow treatment)  
Wafer: PBT, UL94V-0, natural (white)

**RoHS compliance** This product displays (LF)(SN) on a label.

Top entry type of nylon



Side entry type of nylon



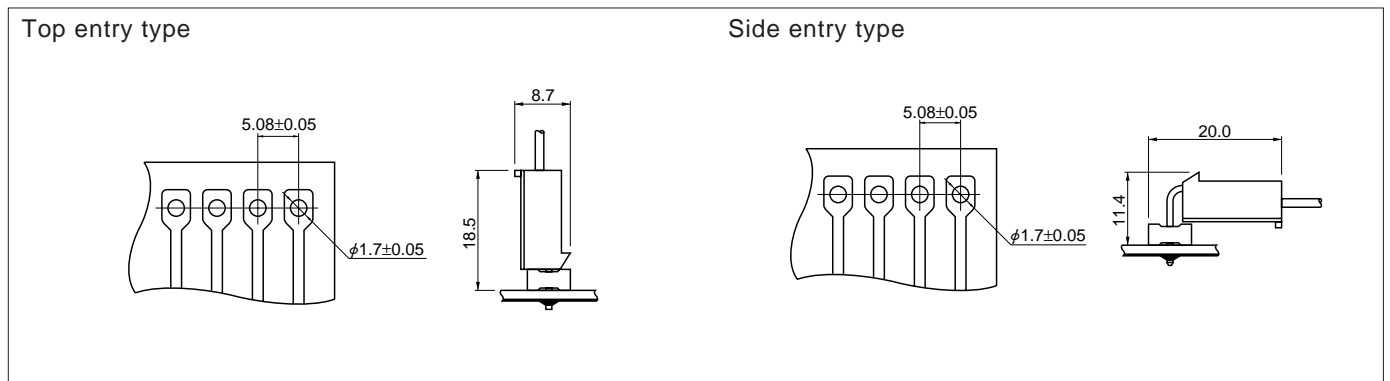
Cir- cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	<b>B 2P -VB</b>	<b>B 2P S-VB</b>	5.08	9.88	1,000	1,000
2	<b>B 2P 3-VB</b>	—	10.16	14.96	500	—
3	<b>B 3P 4-VB</b>	<b>B 3P 4S-VB</b>	15.24	20.04	500	250
4	<b>B 4P 5-VB</b>	<b>B 4P 5S-VB</b>	20.32	25.12	250	200
5	<b>B 5P 6-VB</b>	<b>B 5P 6S-VB</b>	25.40	30.20	250	200
6	<b>B 6P 7-VB</b>	<b>B 6P 7S-VB</b>	30.48	35.28	200	100
7	<b>B 7P 8-VB</b>	<b>B 7P 8S-VB</b>	35.56	40.36	200	100
8	<b>B 8P 9-VB</b>	<b>B 8P 9S-VB</b>	40.64	45.44	200	100
9	<b>B 9P10-VB</b>	<b>B 9P10S-VB</b>	45.72	50.52	100	100
12	<b>B12P13-VB</b>	<b>B12P13S-VB</b>	60.96	65.76	100	100

### Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)  
Wafer: PA 66, UL94V-0, natural (white)

**RoHS compliance** This product displays (LF)(SN) on a label.

## PC board layout (viewed from soldering side) and Assembly layout



**Note:**

1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}$  for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

## Crimping machine, Applicator

Contact	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

Note: \*Strip-crimp applicator