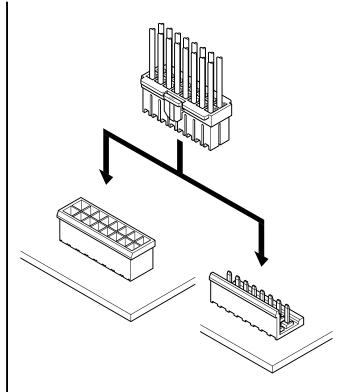


5.0 mm pitch/Disconnectable Crimp style connectors (Combined use for both wire-to-board and wire-to-wire connections)



The reliable XL connectors have been developed by utilizing the technology of JST's field proven VH and SM connectors. The XL connectors are being used in electric appliances, vending machines, and office automation equipment.

- Reliable housing construction
- Easy contact insertion
- Box-shaped contact
- Two types of connections

# Specifications -

• Current rating: 10 A AC, DC (Refer to the table below.)

• Voltage rating: 150 V AC, DC

• Temperature range: -25°C to +90°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/  $7~\text{m}\Omega$  max.

After environmental testing/ 10 m $\Omega$  max.

 $\bullet$  Insulation resistance: 1,000  $M\Omega$  min.

• Withstanding voltage: 1,500 VAC/minute

• Applicable wire: AWG #26 to #16

• Applicable PC board thickness: 1.6 mm

\* Compliant with RoHS.

\* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

\* Contact JST for details.

#### Note:

The rated current varies depending on the number of circuits and the size of the wire to be connected by crimping.

						Cu	rrent unit:A	
	No. of circuits	Wire size (AWG)						
		#16	#18	#20	#22	#24	#26	
	2	10	6	5	4	3	3	
	3	9	5	4	3	3	2	
	4	9	5	4	3	3	2	
	8	6	4	3	3	2	2	
	12	6	4	3	3	2	2	
	16	5	3	2	2	1	1	

#### Note:

Do not branch in parallel current which exceeds the rated current per circuit listed below. (Example: more than 10A in the case of a 2-circuit connector using AWG #16 wires.) If branched in parallel, current imbalance or other problems may develop.

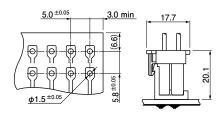
## Standards -

Recognized E60389

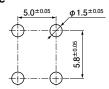
⊕ Certified LR20812

△ R75150

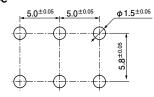
## PC board layout and Assembly layout



# [HDS type] Top entry type



### [HDS type] Side entry type



Note: 1. Tolerances are non-cumulative:  $\pm$  0.05 mm for all centers.

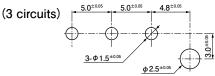
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

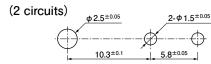
## PC board layout

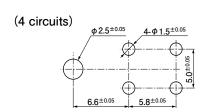
# [HDB type] Top entry type

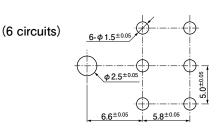
# (2 circuits) 6.6<sup>±0.05</sup> 5.8±0.05

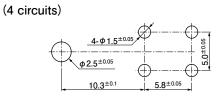
# [HDB type] Side entry type







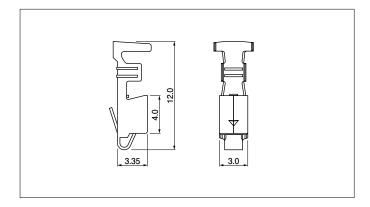




Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

2. 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/	
Model No.	mm <sup>2</sup>	AWG #	(mm)	reel	
SXF-01T-P0.7	0.13 to 0.5	26 to 20	1.3 to 2.7		
SXF-41T-P0.7	0.5 to 1.25	20 to 16	1.9 to 3.1	3,000	
	0.3×2 to 0.5×2	22×2 to 20×2	1.7×2 to 2.0×2		

## Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

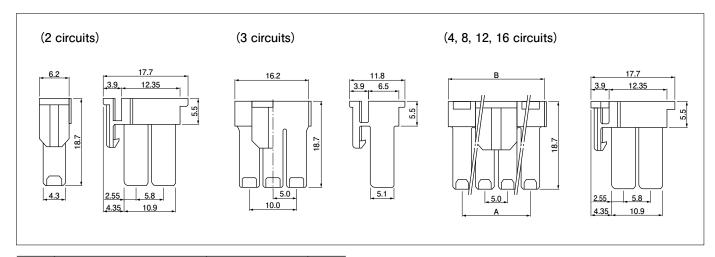
#### RoHS compliance

Note: Contact JST for brass products.

0	Crimping	Applicator			
Contact	machine	Crimp applicator	Dies	Crimp applicator with dies	
SXF-01T-P0.7	AP-K2N	N MKS-L	MK/SXF-01-07	APLMK SXF01-07	
SXF-41T-P0.7			MK/SXF-41-07	APLMK SXF41-07	

Note: Contact JST for fully automatic crimping applicator.

# Housing

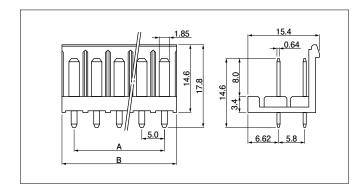


No. of	Model No.	Dimensio	Q'ty/			
circuits		Α	В	bag		
2	XLP-02V	_	-	500		
3	XLP-03V	-	-	500		
4	XLP-04V	5.0	11.2	500		
8	XLP-08V	15.0	21.2	500		
12	XLP-12V	25.0	31.2	200		
16	XLP-16V	35.0	41.2	200		
Material						

PA 66, UL94V-0, natural (white)

RoHS compliance

# Header



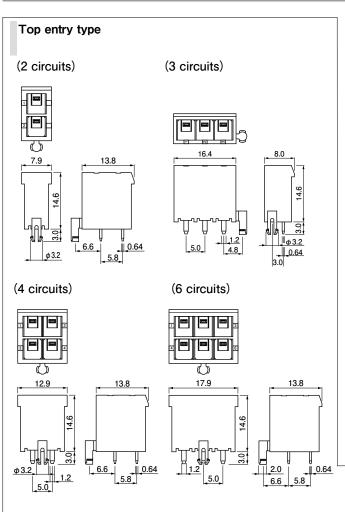
No. of	Model No.	Dimension	Q'ty/	
circuits		Α	В	box
2	B02P-XL	_	5.0	250
4	B04P-XL	5.0	10.0	200
8	B08P-XL	15.0	20.0	100
12	B12P-XL	25.0	30.0	50
16	B16P-XL	35.0	40.0	50

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.

# Header <HDB type>



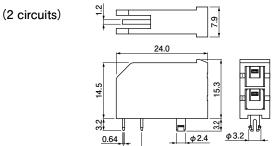
No. of	Mode	Q'ty/box		
circuits	Top entry type	Side entry type	Top entry type	Side entry type
2	B02P-XL-HDB	S02P-XL-HDB	200	100
3	B03P-XL-HDB	_	200	_
4	B04P-XL-HDB	S04P-XL-HDB	200	100
6	B06P-XL-HDB	_	100	_

## Material and Finish

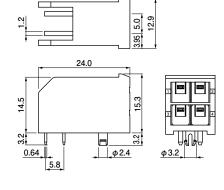
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

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

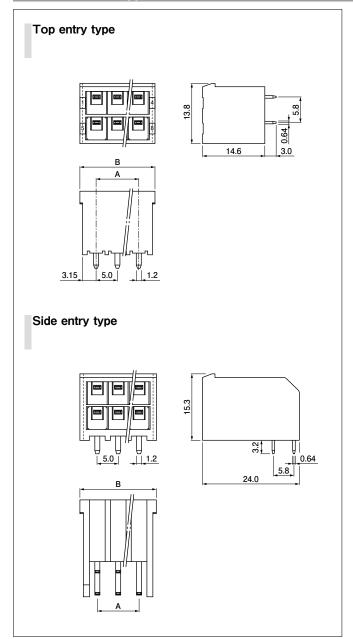




(4 circuits)



# Header <HDS type>



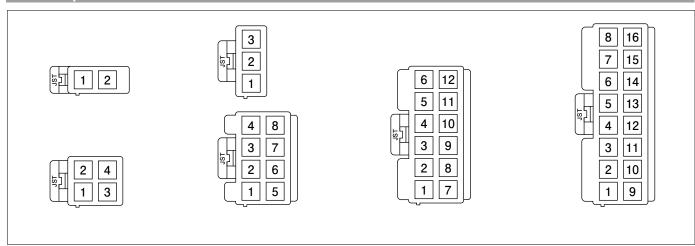
No. of	Model No.		Dimensions (mm)		Q'ty	
circuits	Top entry type	Side entry type	Α	В	Top/bag	Side/box
2	B02P-XL-HDS	_	-	7.9	200	_
4	B04P-XL-HDS	_	5.0	12.9	200	_
8	B08P-XL-HDS	S08P-XL-HDS	15.0	22.9	100	40
12	B12P-XL-HDS	S12P-XL-HDS	25.0	32.9	50	30
16	B16P-XL-HDS	S16P-XL-HDS	35.0	42.9	40	20

#### Material and Finish

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

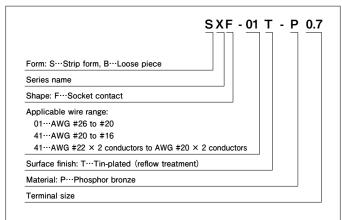
RoHS compliance This product displays (LF)(SN) on a label.

# Contact position location numbers

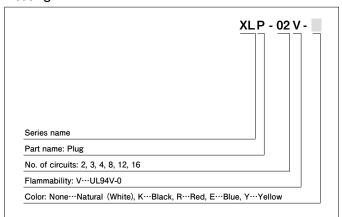


## Model number allocation

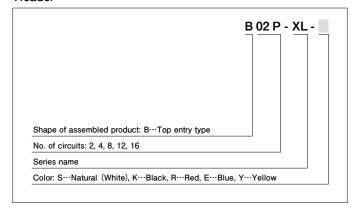
#### Contact



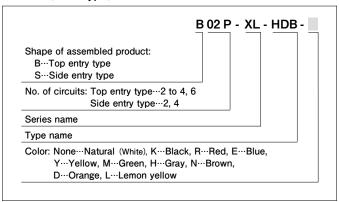
#### Housing



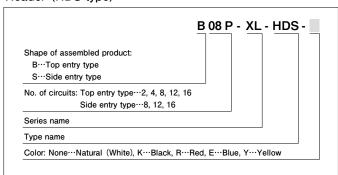
#### Header



#### Header (HDB type)



#### Header (HDS type)



Note: Depending on the colors, it may take some time for delivery.