





This is a highly reliable wire-to-board connector developed based on the proven track record of VH connectors, which are already used in numerous electronic and electrical equipment such as home appliances, vending machines, and office machines.

- Outstanding contact insertion workability
- · High reliability box-shaped contact
- Deployable for wire-to-wire connections

Standards

Seconized E 60389 (Street ified LR 20812 ▲ :R75150

Specifications

- Current rating: 10 A AC/DC (2 circuits/ AWG #16)
- * The following table shows the rated current when applying current for all circuits in each combination of the number of circuits and the wireto be used.

						Unit: A
No. of	Wire size (AWG)					
circuits	#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) Notes on parallel branching current:

Do not branch to the multiple circuits in parallel current which is exceeds the rated current, as it may cause problems such as imbalance when applying current. If it is unavoidable that branch in parallel is necessary, design the circuits while suppressing the unbalanced current and

Voltage rating: 150 V AC/DC

 Temperature range: −25°C to +90°C (including temperature rise in applying electrical current)

proving the sufficient margin to the rated current.

· Contact resistance:

Initial value/ 7 m Ω max.

After environmental tests/ 10 m Ω 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: Conductor size/ AWG #26 to #16
- 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.



PC board layout and Assembly layout



Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side. 2. Dimension B: See "Header" section on page 4.

- 3. Tolerance for the PCB hole pitch shall be \pm 0.05 and shall not accumulate.
- 4. Hole dimensions differ according to the type of PC board and piercing method.
 - The above dimensions are reference values. Please contact JST for details.

PC board layout and Assembly layout/ HDB type

Top entry type

<2 circuits>



<3 circuits>

<6 circuits>

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13.8

No. 1

circuit



Locking side

17.9

(3.95) 5^{±0.05}

 $\phi 2.5^{\pm 0.05}$

Connector

outline

 $6-\phi 1.5^{\pm 0.05}$

 $5.8^{\pm 0.05}$

 $6.6^{\pm0.05}$



Top entry type : 3 circuits

17.7

Top entry type :

2, 4, 6 circuits

<4 circuits>



24

10.3^{±0.1}

5.8^{±0.05}

Side entry type <2 circuits>

(0.9)

 $2-\phi_{1.5}^{\pm 0.05}$

No. 1 circuit

<4 circuits>





(20.1)

Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.

Connector

outline

(3.95)

2. Tolerance for the PCB hole pitch shall be \pm 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.



(17.8)

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PC board layout and Assembly layout/ HDS type

Top entry type





Side entry type



Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.

- 2. Dimension B: See "Header/HDS type" section on page 6
- 3. Tolerance for the PCB hole pitch shall be \pm 0.05 and shall not accumulate. 4. Hole dimensions differ according to the type of PC board and piercing method.
- The above dimensions are reference values. Please contact JST for details.

Socket contact



	Applicable wire range			
Model No.	Conductor size AWG (mm ²)	Insulation O.D. (mm)	Q'ty/ reel	
SXF-01T-P0.7	#26 to #20 (0.13 to 0.5)	1.3 to 2.7		
	#20 to #16 (0.5 to 1.25)	1.9 to 3.1	3,000	
SXF-41T-P0.7	#22×2 wires to #20×2 wires $(0.3\times2 \text{ wires to } 0.5\times2 \text{ wires})$	1.7×2 wires to 2.0×2 wires		
	Material and Surface finish,	etc.		
	Phosphor bronze, tin-plate	ed		

RoHS2 compliance

Crimping machine

Contact	Crimping machine	Applicator	Crimp applicator with dies
SXF-01T-P0.7	AP-K2N	MKS-L	APLMK SXF01-07
SXF-41T-P0.7	AP-KZN	WIKS-L	APLMK SXF41-07

Note: Contact JST for fully automatic crimping applicator.



Plug housing



<4 circuits>



<3 circuits>

<8, 12, 16 circuits>



No. of	Model No.	Dimensio	O'tu /haa	
circuits	Model No.	А	В	Q'ty/bag
2	XLP-02V	-	-	500
3	XLP-03V	-	-	500
4	XLP-04V	-	-	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 and Surfac	e finish etc	`	
		e iinisii, etc.		

PA 66, UL94V-0, natural (white)

RoHS2 compliance

Header



No. of	Io. of Model No.		Dimensions (mm)	
circuits	uits Model No.	А	В	Q'ty/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 Surfac	o finish oto		

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

RoHS2 compliance This product displays (LF)(SN) on a label.



Header/ HDB type





Header/ HDS type



Model No. Dimensions (mm) No. of Q'ty/box circuits Side entry type Top entry type В Тор Side А B02P-XL-HDS 200 2 7.9 _ 4 B04P-XL-HDS _ 5.0 12.9 200 _ 6 B06P-XL-HDS _ 10.0 17.9 100 _ 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 Surface finish, etc.

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

RoHS2 compliance This product displays (LF)(SN) on a label.

Plug housing position location numbers





Model number allocation

Socket contact





Header

	B 02 P - XL -
Header type: BTop entry type	
No. of circuits	
Assembly product	
Series name	
Color : Blank…Natural (White), K…Bla E…Blue, Y…Yellow	ack, R…Red

Header/ HDB type



Header/ HDS type

