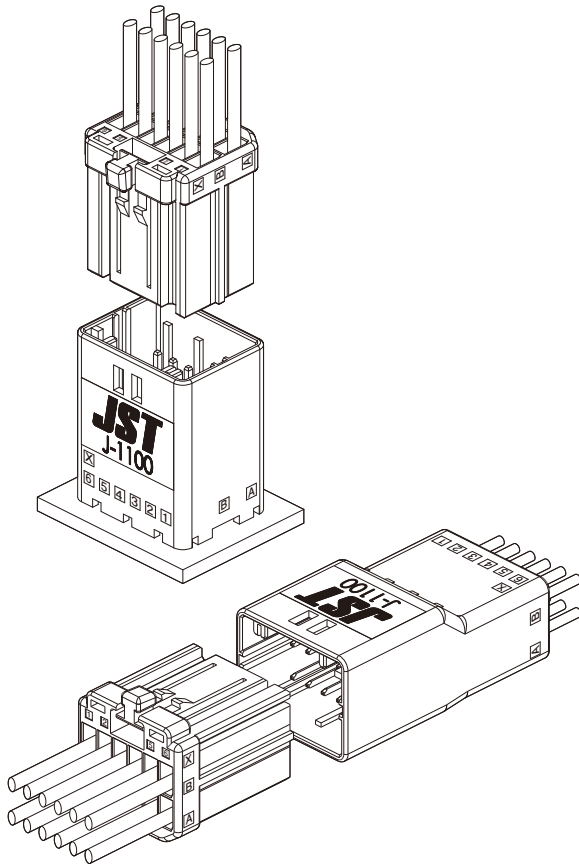


JFA CONNECTOR J1000 SERIES

2.2 mm pitch/Disconnectable Crimp style connectors (For Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general.

In spite of various kinds of housings available, their contacts are designed to be common.

The applicable tooling can be standardized.

- Double-spring construction
- Up to AWG #18 with 2.2 mm pitch
- Housing lance
- Secure locking method

■ Standards

Ⓜ : Recognized E 60389

■ Specifications

• Current rating: AC/DC

Unit : A

No. of circuits	Wire size (AWG)					
	#18	#20	#22	#24	#26	#28
3	6.4	5.4	4.8	4.0	3.4	2.8
6	5.5	4.6	4.0	3.4	2.9	2.4
8	5.5	4.6	4.0	3.1	2.6	2.2
12	4.7	3.9	3.4	2.7	2.6	2.0
20	4.0	3.4	3.0	2.4	2.0	1.8
22	3.9	3.3	2.9	2.3	1.9	1.7
26	3.6	3.0	2.6	2.2	1.8	1.6
30	3.6	3.0	2.6	2.1	1.7	1.5

• Voltage rating: 125 V AC/DC...J1100 series
250 V AC/DC...J1800 series

• Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)

• Applicable wire: AWG #28 to #18

• 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).

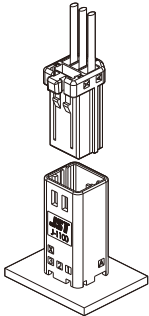
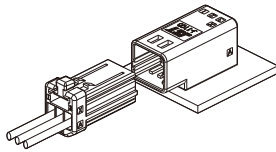
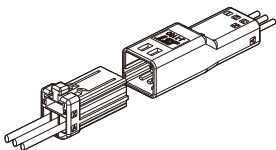
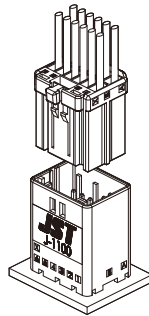
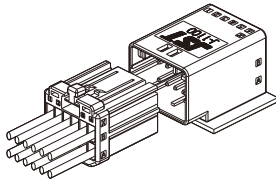
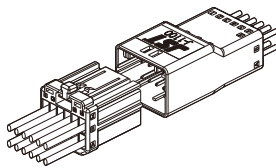
* RoHS2 compliance

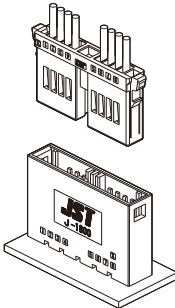
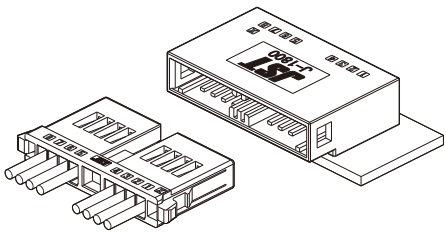
* Dimensional unit: mm

* Contact JST for details.

JFA CONNECTOR/J1000 SERIES

J1000 series products line-up

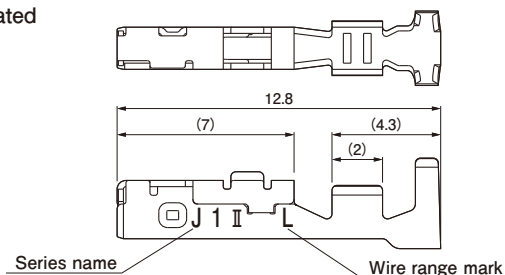
Type		2.2 mm pitch , Voltage rating 125 V AC/DC		
		Wire-to-board		Wire-to-wire
		Top entry type	Side entry type	Free hanging type
Center locking type	J1100 Single-row type			
	No. of circuits	3	3	3
	J1100 Dual-row type			
	No. of circuits	6, 8, 12, 20, 22, 26, 30	6, 8, 12, 20, 30	6, 8, 12, 20, 26

Type		2.2 mm pitch , Voltage rating 250 V AC/DC	
		Wire-to-board	
		Top entry type	Side entry type
Side locking type (Thin type)	J1800 Single-row type		
	No. of circuits	8	8

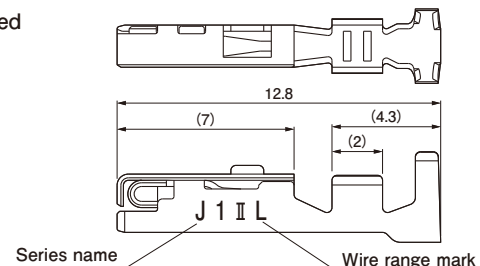
JFA CONNECTOR/J1000 SERIES

Receptacle contact

● Gold-plated



● Tin-plated



Strip contact Model No.	Series	Applicable wire			Insulation O.D. (mm)	Q'ty/reel
		Size	mm ²	AWG #		
SF1F-002GC-P0.6	Gold (0.2μm)	M	0.08~0.2	28~24	0.88~1.43	6,000
SF1F-002T-P0.6	Tin					
SF1F-01GC-P0.6	Gold (0.2μm)	ME	0.2~0.5	24~20	1.30~1.90	5,500
SF1F-21GC-P0.6	Gold (0.2μm)	L	0.3~0.8	22~18	1.50~2.10	5,000
SF1F-21T-P0.6	Tin					

Material and Finish

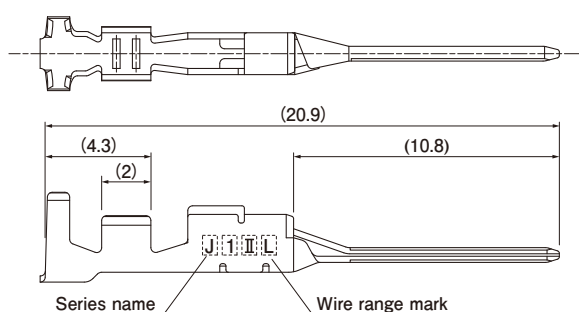
Copper alloy, nickel-undercoated, selective gold-plated
Tin-plated

RoHS2 compliance

Note: 1. Contact JST for 0.76 μm gold-plated product.

2. Please note that the above general specifications may differ from the safety standards.

Tab contact



Strip contact Model No.	Series	Applicable wire			Insulation O.D. (mm)	Q'ty/reel
		Size	mm ²	AWG #		
SF1M-002GC-M0.6A	Gold (0.2μm)	M	0.08~0.2	28~24	0.88~1.43	6,000
SF1M-002T-M0.6A	Tin					
SF1M-01GC-M0.6A	Gold (0.2μm)	ME	0.2~0.5	24~20	1.30~1.90	5,500
SF1M-21GC-M0.6A	Gold (0.2μm)	L	0.3~0.8	22~18	1.50~2.10	5,000
SF1M-21T-M0.6A	Tin					

Material and Finish

Copper alloy, nickel-undercoated, selective gold-plated
Tin-plated

RoHS2 compliance

Note: 1. Contact JST for 0.76 μm gold-plated product.

2. Please note that the above general specifications may differ from the safety standards.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	Hand tool
SF1F-002(*)-P0.6	AP-K2N	MKS-L	MK/SF1F/M-002-06	APLMK SF1F/M002-06	YRK-1220
SF1M-002(*)-M0.6A			MK/SF1F/M-002-06	APLMK SF1F/M002-06	
SF1F-01GC-P0.6	AP-K2N	MKS-L	MK/SF1F/M-01-06	APLMK SF1F/M01-06	YRK-1230
SF1M-01GC-M0.6A			MK/SF1F/M-01-06	APLMK SF1F/M01-06	

Strip contact Model No.	Crimping machine	Applicator			
		Crimp applicator	Dies	Crimp applicator with dies	Hand tool
SF1F-21(*)-P0.6	AP-K2N	MKS-L	MK/SF1F/M-21-06	APLMK SF1F/M21-06	YRK-1210
SF1M-21(*)-M0.6A			MK/SF1F/M-21-06	APLMK SF1F/M21-06	

Note: Finish (*): GC...Nickel-undercoated, 0.2 μm selective gold-plated

T... Tin-plated

• Extraction tool for J1100 series: EJ-JFAJ1100/EJ-JFAJ1100N

• Extraction tool for J1800 series: EJ-JFAJ18

• Refer to crimping tools for details of YRK series hand crimping tools that uses a strip contact.

Note: Contact JST for fully automatic crimping applicator.

Recognition mark

• Plating of the contact

Each contact has a marking on its side so that the type or thickness of the plating is recognized.

ex. 1 ... gold-plated 0.2 μm thickness

3 ... gold-plated 0.76 μm thickness

5 ... tin-plated

• Common marking on the contact and its application tools

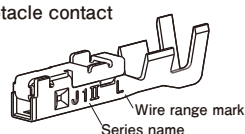
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J1 II) and wire range mark (M, ME, L) are shown on both the tools and the contacts.

For example J1 II M..... AWG #28 ~ #24

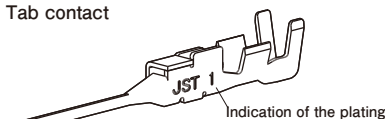
ME..... AWG #24 ~ #20

L..... AWG #22 ~ #18

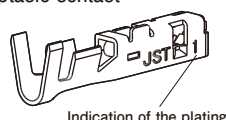
Receptacle contact



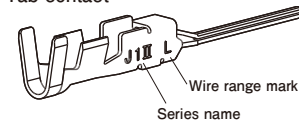
Tab contact



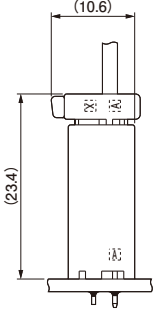
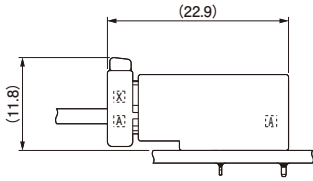
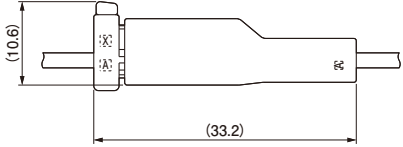
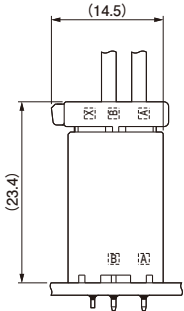
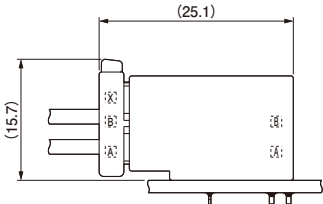
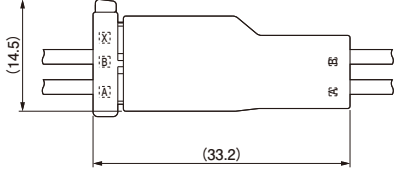
Receptacle contact



Tab contact



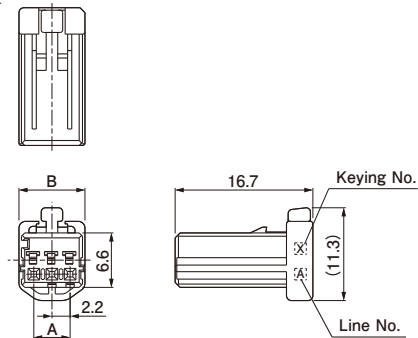
Assembly layout

Type	Wire-to-board		Wire-to-wire
	Top entry type	Side entry type	Free hanging type
J1100 Single-row type			
J1100 Dual-row type			

J1000 SERIES/J1100

Receptacle housing

<Single-row type>



No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
3	X	J11SF-03V-KX	4.4	8.0	1,200
	Y	J11SF-03V-KY	4.4	8.0	1,200

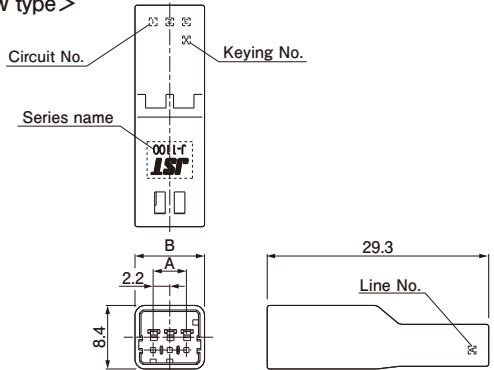
Material and Finish

Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Tab housing

<Single-row type>



No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
3	X	J11SFM-03V-KX	4.4	9.2	500
	Y	—	—	—	—

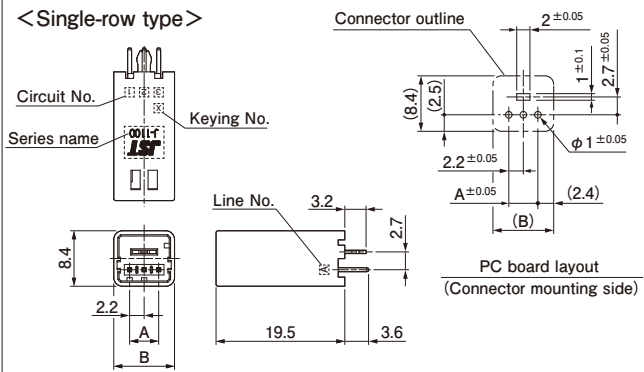
Material and Finish

Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Header Top entry type

<Single-row type>



No. of circuits	Plating	Keying	Model No.	Dimensions (mm)		Q'ty/box
				A	B	
3	Gold (0.2μm)	X	B03B-J11SK-GWXR	4.4	9.2	625
		Y	B03B-J11SK-GWYR	4.4	9.2	625
	Tin	X	B03B-J11SK-TXR	4.4	9.2	625
		Y	B03B-J11SK-TYR	4.4	9.2	625

Material and Finish

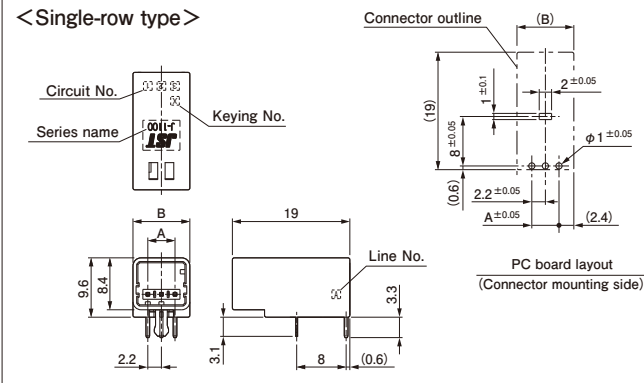
Post: Copper alloy, gold-plated, tin-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, tin-plated

RoHS2 compliance

Note: 1. Gold-plated product displays (LF) on a label.
2. Contact JST for 0.76μm gold-plated product.

Header Side entry type

<Single-row type>



No. of circuits	Plating	Keying	Model No.	Dimensions (mm)		Q'ty/box
				A	B	
3	Gold (0.2μm)	X	S03B-J11SK-GWXR	4.4	9.2	600
		Y	S03B-J11SK-GWYR	4.4	9.2	600
	Tin	X	S03B-J11SK-TXR	4.4	9.2	600
		Y	S03B-J11SK-TYR	4.4	9.2	600

Material and Finish

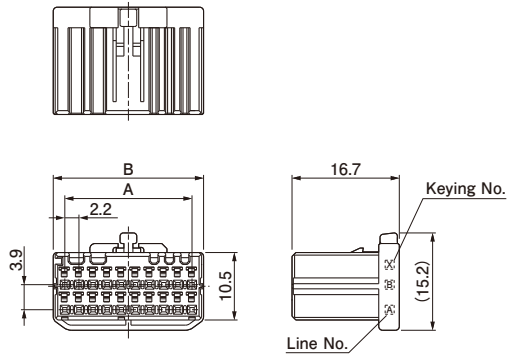
Post: Copper alloy, gold-plated, tin-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcement: Copper alloy, tin-plated

RoHS2 compliance

Note: 1. Gold-plated product displays (LF) on a label.
2. Contact JST for 0.76μm gold-plated product.

Receptacle housing

<Dual-row type>



No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
6	X	J11DF-06V-KX	4.4	8.0	800
	Y	J11DF-06V-KY	4.4	8.0	800
8	X	J11DF-08V-KX	6.6	10.2	500
	Y	J11DF-08V-KY	6.6	10.2	500
12	X	J11DF-12V-KX	11.0	14.6	400
	Y	J11DF-12V-KY	11.0	14.6	400
20	X	J11DF-20V-KX	19.8	23.4	250
	Y	J11DF-20V-KY	19.8	23.4	250
22	X	* J11DF-22V-KX	22.0	25.6	250
	Y	* J11DF-22V-KY	22.0	25.6	250
26	X	* J11DF-26V-KX	26.4	30.0	200
	Y	* J11DF-26V-KY	26.4	30.0	200
30	X	* J11DF-30V-KX	30.8	34.4	180
	Y	* J11DF-30V-KY	30.8	34.4	180

Material and Finish

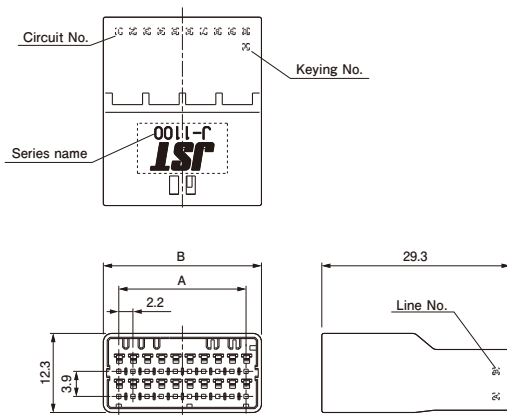
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: * Marked products are unlisted in UL.

Tab housing

<Dual-row type>



No. of circuits	Keying	Model No.	Dimensions (mm)		Q'ty/box
			A	B	
6	X	J11DFM-06V-KX	4.4	9.2	400
	Y	J11DFM-06V-KY	4.4	9.2	400
8	X	J11DFM-08V-KX	6.6	11.4	300
	Y	—	—	—	—
12	X	J11DFM-12V-KX	11.0	15.8	200
	Y	—	—	—	—
20	X	J11DFM-20V-KX	19.8	24.6	150
	Y	—	—	—	—
26	X	* J11DFM-26V-KX	26.4	31.2	120
	Y	* J11DFM-26V-KY	26.4	31.2	120

Material and Finish

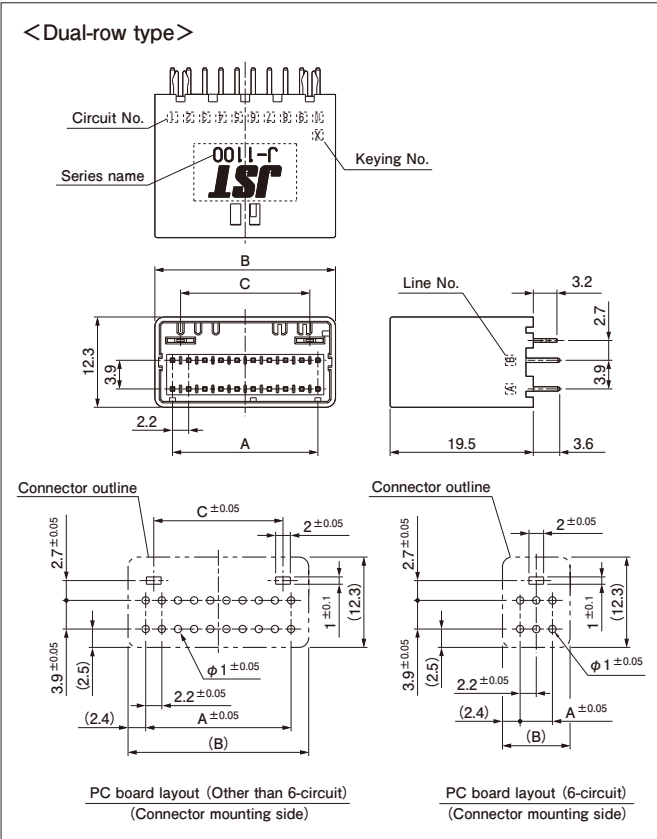
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: * Marked products are unlisted in UL.

J1000 SERIES/J1100

Header Top entry type

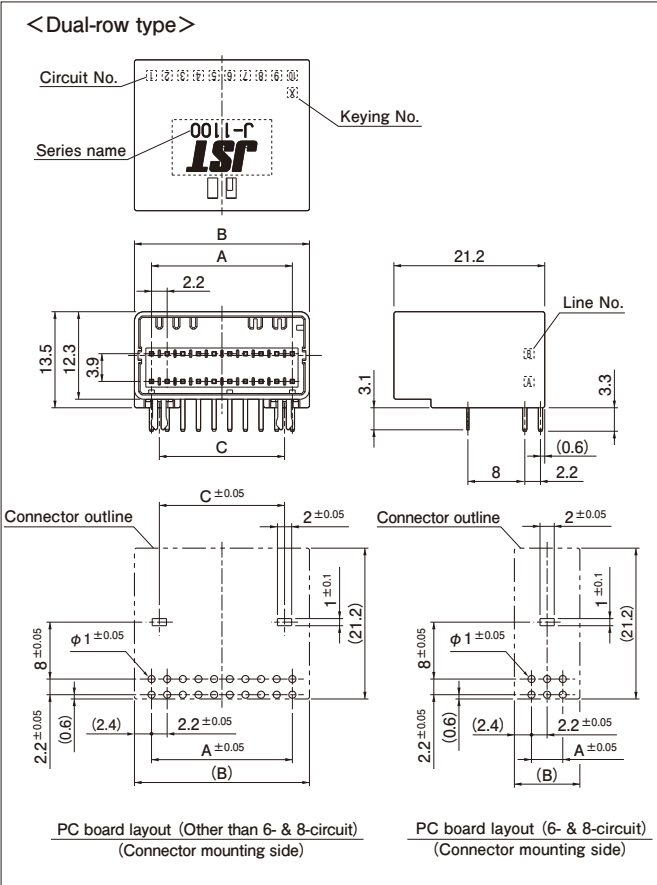


No. of circuits	Plating	Keying	Model No.	Dimensions (mm)			Q'ty/box
				A	B	C	
6	Gold (0.2 μm)	X	B06B-J11DK-GWXR	4.4	9.2	—	500
		Y	B06B-J11DK-GWYR	4.4	9.2	—	500
	Tin	X	B06B-J11DK-TXR	4.4	9.2	—	500
8	Gold (0.2 μm)	X	B08B-J11DK-GWXR	6.6	11.4	4.4	400
		Y	B08B-J11DK-GWYR	6.6	11.4	4.4	400
	Tin	X	B08B-J11DK-TXR	6.6	11.4	4.4	400
12	Gold (0.2 μm)	X	B12B-J11DK-GWXR	11.0	15.8	8.8	280
		Y	B12B-J11DK-GWYR	11.0	15.8	8.8	280
	Tin	X	B12B-J11DK-TXR	11.0	15.8	8.8	280
20	Gold (0.2 μm)	X	B20B-J11DK-GWXR	19.8	24.6	17.6	180
		Y	B20B-J11DK-GWYR	19.8	24.6	17.6	180
	Tin	X	B20B-J11DK-TXR	19.8	24.6	17.6	180
22	Gold (0.2 μm)	X	* B22B-J11DK-GWXR	22.0	26.8	19.8	160
		Y	* B22B-J11DK-GWYR	22.0	26.8	19.8	160
26	Gold (0.2 μm)	X	* B26B-J11DK-GWXR	26.4	31.2	24.2	140
		Y	* B26B-J11DK-GWYR	26.4	31.2	24.2	140
30	Gold (0.2 μm)	X	* B30B-J11DK-GWXR	30.8	35.6	28.6	120
		Y	* B30B-J11DK-GWYR	30.8	35.6	28.6	120

Material and Finish	
Post: Copper alloy, gold-plated, tin-plated	
Housing: Glass-filled PBT, UL94V-0, black	
Reinforcement: Copper alloy, tin-plated	

- RoHS2 compliance
- Note: 1. Gold-plated product displays (LF) on a label.
2. Contact JST for 0.76 μm gold-plated product.
3. * Marked products are unlisted in UL.

Header Side entry type



No. of circuits	Plating	Keying	Model No.	Dimensions (mm)			Q'ty/box
				A	B	C	
6	Gold (0.2 μm)	X	S06B-J11DK-GWXR	4.4	9.2	—	375
		Y	S06B-J11DK-GWYR	4.4	9.2	—	375
	Tin	X	S06B-J11DK-TXR	4.4	9.2	—	375
8	Gold (0.2 μm)	X	S08B-J11DK-GWXR	6.6	11.4	—	300
		Y	S08B-J11DK-GWYR	6.6	11.4	—	300
	Tin	X	S08B-J11DK-TXR	6.6	11.4	—	300
12	Gold (0.2 μm)	X	S12B-J11DK-GWXR	11.0	15.8	8.8	225
		Y	S12B-J11DK-GWYR	11.0	15.8	8.8	225
	Tin	X	S12B-J11DK-TXR	11.0	15.8	8.8	225
20	Gold (0.2 μm)	X	S20B-J11DK-GWXR	19.8	24.6	17.6	135
		Y	S20B-J11DK-GWYR	19.8	24.6	17.6	135
	Tin	X	S20B-J11DK-TXR	19.8	24.6	17.6	135
30	Gold (0.2 μm)	X	* S30B-J11DK-GWXR	30.8	35.6	28.6	90
		Y	—	—	—	—	—

Material and Finish	
Post: Copper alloy, gold-plated, tin-plated	
Housing: Glass-filled PBT, UL94V-0, black	
Reinforcement: Copper alloy, tin-plated	

- RoHS2 compliance
- Note: 1. Gold-plated product displays (LF) on a label.
2. Contact JST for 0.76 μm gold-plated product.
3. * Marked product is unlisted in UL.

Type	Wire-to-board	
	Top entry type	Side entry type
Single-row type		

Figure 1 illustrates the dimensions and keying of the J18SF-08V-KX component. The top view shows the 8-pin configuration with keying and circuit numbers. The front view shows the dimensions: 2.2, 7.5, 20.7, 31.5, 4.8, and 5.1. The side view shows the profile of the component.

The figure shows two views of the B08B-J18SK-TXR connector. The top view is the 'Connector outline' showing a 18-pin connector with dimensions: overall width 30, pin pitch 2.5, pin width 1.85, and mounting hole diameter 2.7. The bottom view is the 'PC board layout (Connector mounting side)' showing the footprint dimensions: overall width 30, mounting hole diameter 3.2, and pin pitch 2.5. The connector is labeled with 'Circuit No.', 'Keying No.', and 'Series name'.

JFA CONNECTOR/J1000 SERIES

Model number allocation

Receptacle contact

S F1 F - 21 T - P 0.6

Form: S...Strip form

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ AWG #24
01...AWG #24 ~ AWG #20
21...AWG #22 ~ AWG #18

Surface finish: GC...Nickel-undercoated, selective gold-plated (0.2 μm)
GI...Nickel-undercoated, selective gold-plated (0.76 μm)
T...Tin-plated

Material: P...Copper alloy

Terminal size

Tab contact

S F1 M - 21 T - M 0.6 A

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG #28 ~ AWG #24
01...AWG #24 ~ AWG #20
21...AWG #22 ~ AWG #18

Surface finish: GC...Nickel-undercoated, selective gold-plated (0.2 μm)
GI...Nickel-undercoated, selective gold-plated (0.76 μm)
T...Tin-plated

Material: M...Copper alloy

Terminal size

Sub model number

Receptacle housing

J11 DF - 06 V - K X

Series name

Type of connector: SF...Single-row type
DF...Dual-row type

Circuits: 3, 6, 8, 12, 20, 22, 26, 30

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Tab housing

J11 DFM - 06 V - K X

Series name

Type of connector: SFM...Single-row type
DFM...Dual-row type

Circuits: 3, 6, 8, 12, 20, 26

Flammability: V...UL94V-0

Color indication: K...Black

Keying: X...X-Keying, Y...Y-Keying

Header

B 06 B - J11 D K - T X R

PC board mounting direction:
B...Top entry type
S...Side entry type

Circuits: 3, 6, 8, 12, 20, 22, 26, 30

Shape of assembled product

Series name

Rows: S...Single-row, D...Dual-row

Color indication: K...Black

Surface finish: GW...Nickel-undercoated, selective gold-plated (0.2 μm)
GZ...Nickel-undercoated, selective gold-plated (0.76 μm)
T...Tin-plated

Keying: X...X-Keying, Y...Y-Keying

Packaging form: R...Tray

Mouser Electronics

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