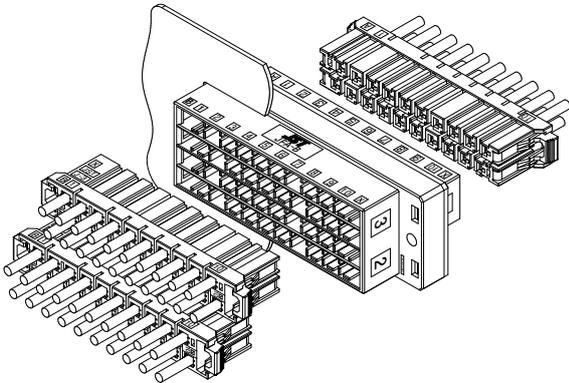


# JFA-B CONNECTOR

7.5 mm pitch/ Wire-to-Wire connectors /Crimp style and Mating style



JFA-B is a connector suitable for 1:2 branching of signals and power supplies for factory automation, heavy electrical equipment, railroad and other general industrial equipment applications.

- Applicable to wide range of wires sizes (AWG #28 to AWG #14)
- Keying available to prevent incorrect mating
- These same contacts are used in the JFA Connector J300 Series

## Specifications

• Current rating : AC/DC

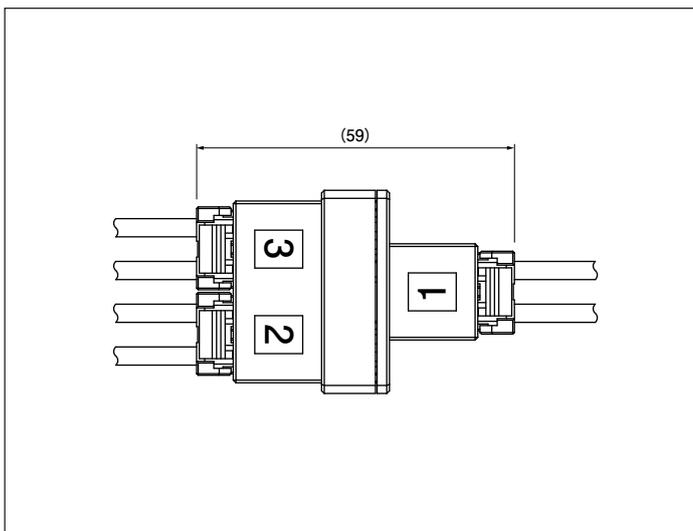
Current unit: A

Wire size (AWG)						Remarks
# 14	# 16	# 18	# 20	# 22	# 24	Total inputs per system
9	8	6.5	5.5	4.5	3.5	

- Voltage rating : 600 V AC/DC
  - Temperature range : -55°C to +105°C  
(Including temperature rise in applying electrical current)
  - Applicable wire range: AWG #28 to AWG #14
- Note) Please note that the above general specifications may differ from safety standards.

- \* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.
- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

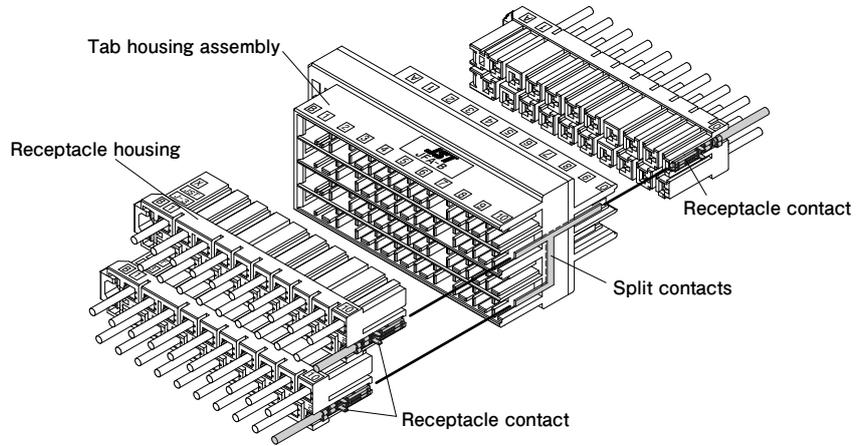
## Assembly layout



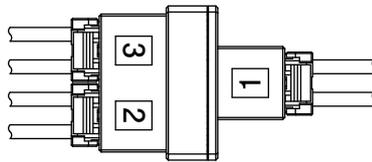
# JFA-B CONNECTOR

## Circuit diagram

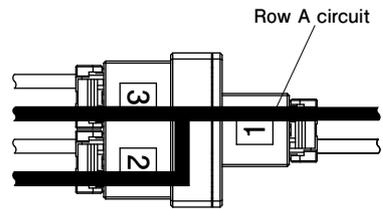
Row A circuit



Cross-sectional view

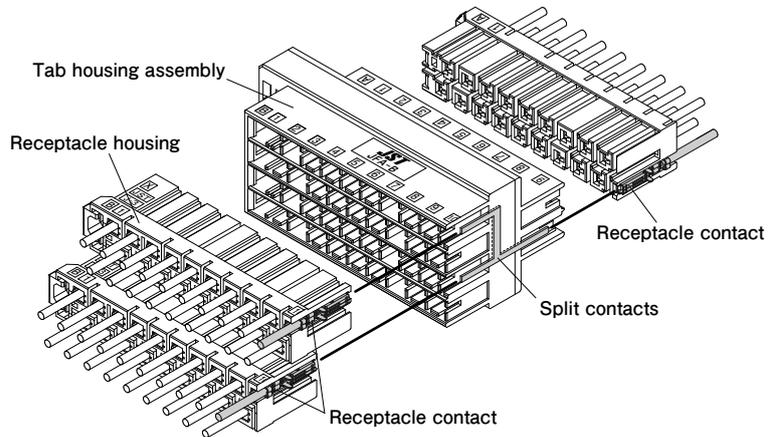


External view

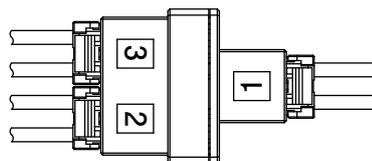


Circuit view

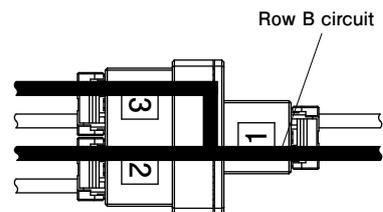
Row B circuit



Cross-sectional view



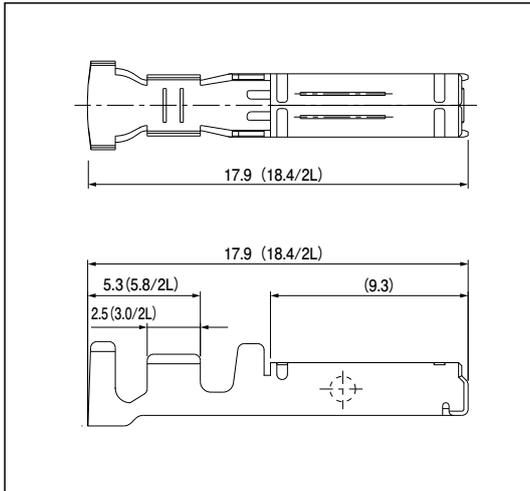
External view



Circuit view

# JFA-B CONNECTOR

## Receptacle contact



Strip contact Model No.	Loose piece contact Model No.	Applicable wire range				Q'ty	
		Nominal	mm <sup>2</sup>	AWG #	Insulation O.D. (mm)	reel	Box (loose piece)
SF3F-002(*)-P2.0	BF3F-002(*)-P2.0	S	0.08 to 0.20	28 to 24	0.8 to 1.4	3,700	1,000
SF3F-01(*)-P2.0	BF3F-01(*)-P2.0	M	0.20 to 0.50	24 to 20	1.2 to 2.6	3,700	1,000
SF3F-41(*)-P2.0	LF3F-41(*)-P2.0	L	0.50 to 1.25	20 to 16	1.8 to 2.8	3,200	1,000
SF3F-71(*)-P2.0	BF3F-71(*)-P2.0	2L	1.25 to 2.0	16 to 14	2.4 to 3.4	3,200	1,000

Material and Surface finish, etc.

Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

Note) Surface finish (\*): GF ...Nickel-undercoated, 0.38 μm selective gold-plated  
 GFA...Nickel-undercoated, 0.38 μm selective gold-plated (type A)  
 GI ...Nickel-undercoated, 0.76 μm selective gold-plated  
 GIA...Nickel-undercoated, 0.76 μm selective gold-plated (type A)

## Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Applicator	Crimp applicator with dies	Hand tools
SF3F-002(*)-P2.0	AP-K2N	MKS-L	APLMK SF3F/M002-20	YRK-8821
SF3F-01(*)-P2.0	AP-K2N	MKS-L	APLMK SF3F/M01-20	YRK-8811
SF3F-41(*)-P2.0	AP-K2N	MKS-L	APLMK SF3F/M41-20	YRK-8801
SF3F-71(*)-P2.0	AP-K2N	MKS-L	APLMK SF3F/M71-20	YRK-1071

Note 1) Surface finish (\*):

GF ...Nickel-undercoated, 0.38 μm selective gold-plated  
 GFA...Nickel-undercoated, 0.38 μm selective gold-plated (type A)  
 GI ...Nickel-undercoated, 0.76 μm selective gold-plated  
 GIA ...Nickel-undercoated, 0.76 μm selective gold-plated (type A)

Note 2) As for details of the hand crimping tool of YRS series used for crimping the strip (chain) contacts, please refer to the "Crimping Machines and Tools" on our website (listed in the "Technical Documents" column on the Product Information page).

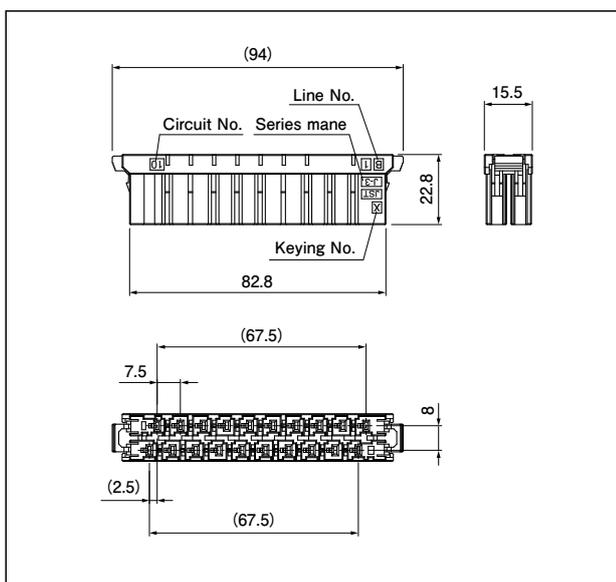
Loose piece contact Model No.	Hand tools
BF3F-002(*)-P2.0	YRF-882
BF3F-01(*)-P2.0	YRF-881
LF3F-41(*)-P2.0	YRF-880
BF3F-71(*)-P2.0	YRF-1070 YRF-1071

Note) Surface finish (\*):

GF ...Nickel-undercoated, 0.38 μm selective gold-plated  
 GFA...Nickel-undercoated, 0.38 μm selective gold-plated (type A)  
 GI ...Nickel-undercoated, 0.76 μm selective gold-plated  
 GIA ...Nickel-undercoated, 0.76 μm selective gold-plated (type A)

● Extraction tool for J300 series: EJ-JFAJ3

## Receptacle housing



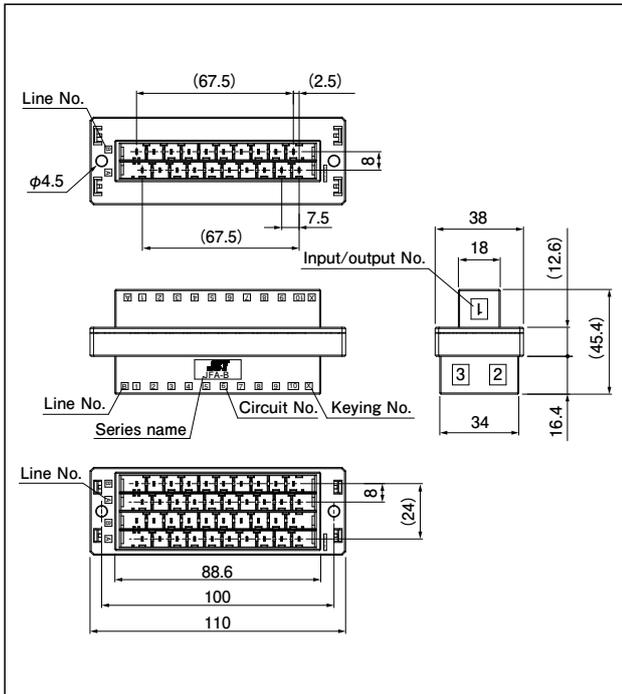
No. of circuits	Keying	Model No.	Q'ty / bag
20	X	FB3FDS-20V-KXA	50
	Y	FB3FDS-20V-SYA	50

Material and Surface finish, etc.

PBT (Glass-filled), UL94V-0, X-Keying (Black), Y-Keying (White)

# JFA-B CONNECTOR

## Tab housing assembly



No. of circuit	Keying	Model No.	Q'ty / bag
60	X	P60B-FB3DK-GFXAR	45
	Y	P60B-FB3DS-GFYAR	45

### Material and Surface finish, etc.

Housing : PBT (Glass-filled) , UL94V-0,

X-Keying (Black) , Y-Keying (White)

Contact : Copper alloy, nickel-undercoated, selective gold-plated

Note 1) Keying for each input/output No. is identical.

2) Contact JST for 0.76  $\mu$ m gold-plated product.

## (Ref.) Tab housing panel mount assembly

	Input/output No.1 side for panel mount	Input/output No. 2/3 side for panel mount
Panel layout		
Tab housing assembly panel mount image		

# JFA-B CONNECTOR

## Model number allocation

### Receptacle contact

	<b>S</b>	<b>F3</b>	<b>F</b>	<b>-</b>	<b>41</b>	<b>GF</b>	<b>-P2.0</b>
Product form:							
S···Strip form,							
B···Loose piece							
L···Loose piece with pre-bent wire barrel							
Series name							
Receptacle contact							
Applicable wire range:							
002···AWG #28 to #24, 01···AWG #24 to #20,							
41···AWG #20 to #16, 71···AWG #16 to #14							
Surface finish:							
GF···Nickel-undercoated, 0.38 μm selective gold-plated							
GFA···Nickel-undercoated, 0.38 μm selective gold-plated (Type A)							
GI···Nickel-undercoated, 0.76 μm selective gold-plated							
GIA···Nickel-undercoated, 0.76 μm selective gold-plated (Type A)							
Material: Copper alloy							
Contact size							

### Receptacle housing

	<b>FB3</b>	<b>F</b>	<b>D</b>	<b>S</b>	<b>-</b>	<b>20</b>	<b>V</b>	<b>-</b>	<b>KX</b>	<b>A</b>
Connector name										
Receptacle housing										
Number of rows: Dual-row										
Mounting feature: Side locking										
No. of circuits										
Sub model number										
Color/Keying: KX···Black, X-Keying										
SY···Natural (White), Y-Keying										
Sub model number										

### Tab housing assembly

	<b>P</b>	<b>60B</b>	<b>-</b>	<b>FB3</b>	<b>D</b>	<b>K</b>	<b>-</b>	<b>GF</b>	<b>X</b>	<b>A</b>	<b>R</b>
Mounting style: Panel mount											
No. of circuits/Assembly product											
Connector name											
Number of rows: Dual-row											
Color: K···Black, S···Natural (White)											
Surface finish:											
GF···Nickel-undercoated, 0.38 μm selective gold-plated											
Keying: X···X-Keying, Y···Y-Keying											
Sub model number											
Packaging style: R···Tray											