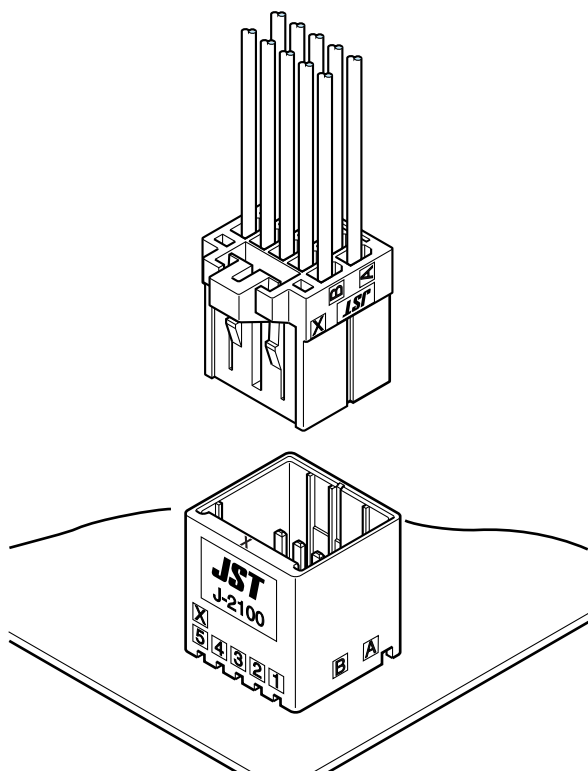


JFA CONNECTOR J2000 SERIES

2.5mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



2.5mm pitch connector for miniaturization of electronic equipment.

Center locking or side locking options can be used depending on the required application.

Receptacle contacts are designed to be common with all JFA connector J2000 series.

- Double-spring construction
- 2 kinds of locking method
- Housing lance
- Clear "click feeling"

Specifications

- Current rating: 4.6A max. AC, DC (3 circuits/AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm²)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.

*RoHS compliant products are published.

Current rating

Unit: A

Circuits	Wire size (AWG)				
	#20	#22	#24	#26	#28
3	4.6	4.4	3.4	3.0	2.4
4	4.5	4.3	3.2	2.8	2.3
6	4.3	4.1	2.8	2.6	2.1
8	4.1	3.6	2.6	2.3	1.9
10	3.9	3.4	2.5	2.2	1.8
12	3.6	3.1	2.4	2.0	1.6
16	3.2	2.8	2.2	1.8	1.4
20	2.9	2.5	2.1	1.7	1.3

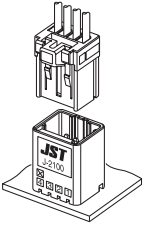
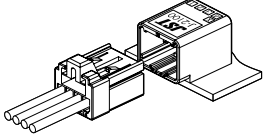
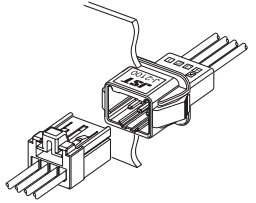
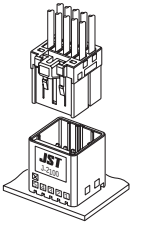
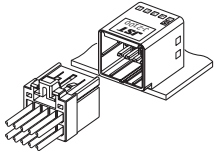
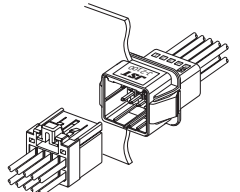
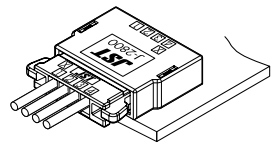
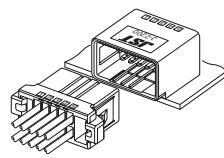
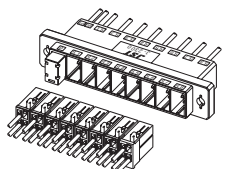
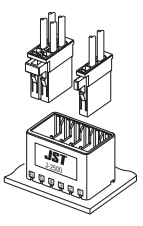
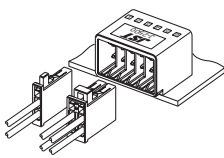
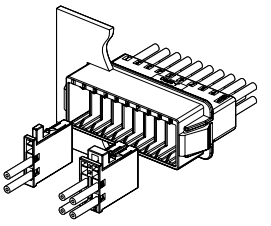
Standards

Recognized E60389

JFA CONNECTOR/J2000 SERIES

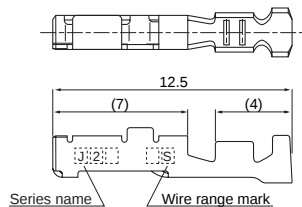
List of J2000 series products

2.5mm pitch/ Voltage rating 250V AC, DC

Type		Wire-to-board		Wire-to-wire
		Top entry type	Side entry type	Panel mounting type
Center locking type	J2100 Single-row type			
	Circuits	3, 4	3, 4	3, 4
	J2100 Double-row type			
	Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 10, 12, 16, 20
Side locking type	J2800 Single-row type			
	Circuits		4	
	J2200 Double-row type			
	Circuits		10	
Common type for sensors	J2300			
	Circuits			Output 10 / Input 24
Module type	J2500			
	Circuits	12, 20	12, 20	20

JFA CONNECTOR/J2000 SERIES

Receptacle contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2F-002GF-P1.0	S	0.08 ~ 0.20	28 ~ 24	0.88 ~ 1.43	6,000
SJ2F-01GF-P1.0	M	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	6,000
SJ2F-21GF-P1.0	L	0.30 ~ 0.75	—	1.30 ~ 1.90	5,000

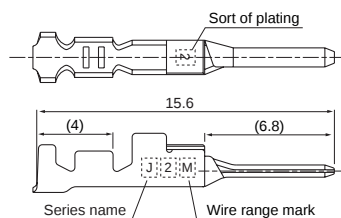
Material and Finish

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

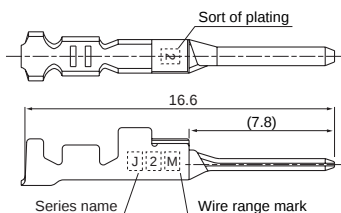
RoHS compliance

Tab contact

• Standard Tab



• Sequential Tab



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm ²	AWG#		
SJ2M-002GF-M1.0N	S	0.08 ~ 0.20	28 ~ 24	0.88 ~ 1.43	5,500
SJ2M-01GF-M1.0N	M	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	5,500
SJ2M-21GF-M1.0N	L	0.30 ~ 0.75	—	1.30 ~ 1.90	5,000
SJ2M-01GF-M1.0S	Sequential	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	5,500

Material and Finish

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

RoHS compliance

Crimping machine, Applicator

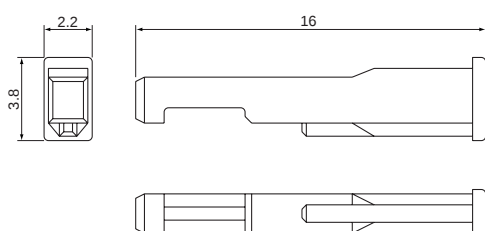
Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-002GF-P1.0 SJ2M-002GF-M1.0N	AP-K2N	MKS-L	MK/SJ2F/M-002-10	APLMK SJ2F/M002-10	YRS-8851
SJ2F-21GF-P1.0 SJ2M-21GF-M1.0N	AP-K2N	MKS-L	MK/SJ2F/M-21-10	APLMK SJ2F/M21-10	YRF-1120
		*MKS-SC-J2	SC/SJ2F/M-21-10	APLSC SJ2F/M21-10	

- Extraction tool for J2000 series: EJ-JFAJ2N
 - Refer to page 654,655 for details of YRK series hand crimping tool.
- Note 1.*: Strip-crimp applicator
2. Contact JST for fully automatic crimping applicator.

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-01GF-P1.0 SJ2M-01GF-M1.0N SJ2M-01GF-M1.0S	AP-K2N	MKS-L	MK/SJ2F/M-01-10	APLMK SJ2F/M01-10	YRS-8861
		*MKS-SC-J2	SC/SJ2F/M-01-10	APLSC SJ2F/M01-10	

Keying plug

Model No. : J2KP-VY

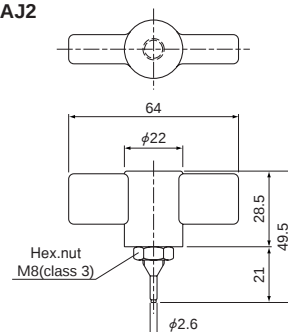


RoHS compliance

438 **JST**

Tab contact cutting tool

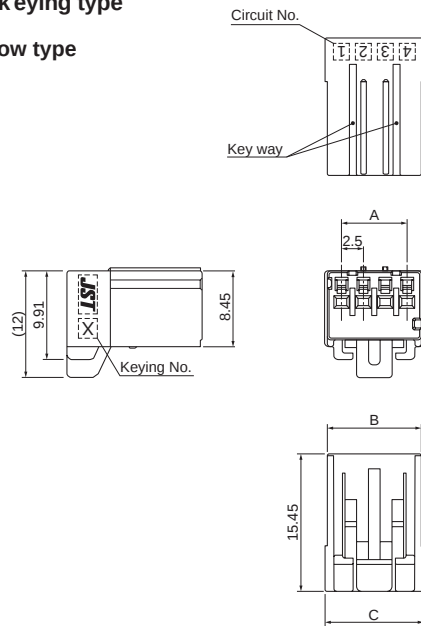
Model No.: CT-JFAJ2



Receptacle housing (Center locking type)

Long keying type

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)			Qty / bag
			A	B	C	
3	X	J21SF-03V-KX-L	5.0	8.3	8.9	400
	Y	J21SF-03V-KY-L	5.0	8.3	8.9	400
4	X	J21SF-04 V-KX-L	7.5	10.8	11.4	400
	Y	J21SF-04 V-KY-L	7.5	10.8	11.4	400

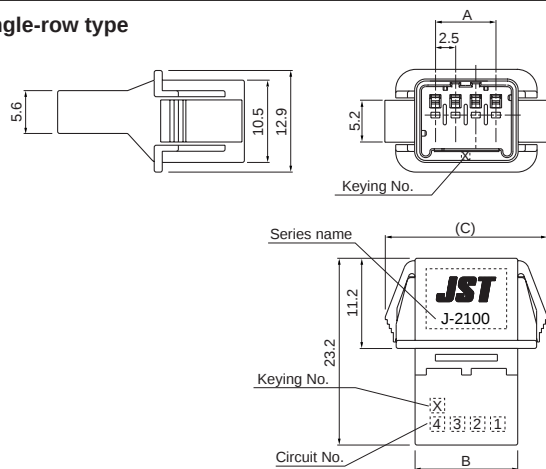
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)			Qty / box
			A	B	(C)	
3	X	J21SPM-03V-KX	5.0	10.2	17.6	208
	Y	J21SPM-03V-KY	5.0	10.2	17.6	208
4	X	J21SPM-04 V-KX	7.5	12.7	20.1	192
	Y	J21SPM-04 V-KY	7.5	12.7	20.1	192

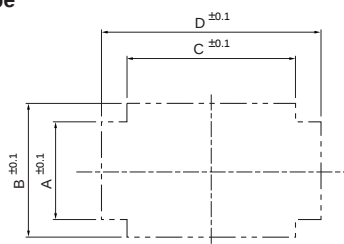
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Panel layout

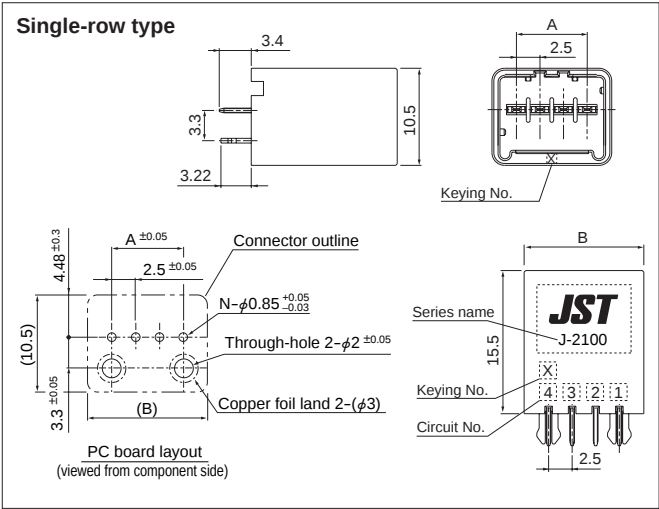
Single-row type



Circuits	Dimensions (mm)			
	A	B	C	D
3	7.8	10.8	10.5	15.2
4	7.8	10.8	13.0	17.7

J2000 SERIES/J2100

Header Top entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	B03B-J21SK-GGXR	5.0	10.2	378
	Y	B03B-J21SK-GGYR	5.0	10.2	378
4	X	B04 B-J21SK-GGXR	7.5	12.7	306
	Y	B04 B-J21SK-GGYR	7.5	12.7	306

Material and Finish

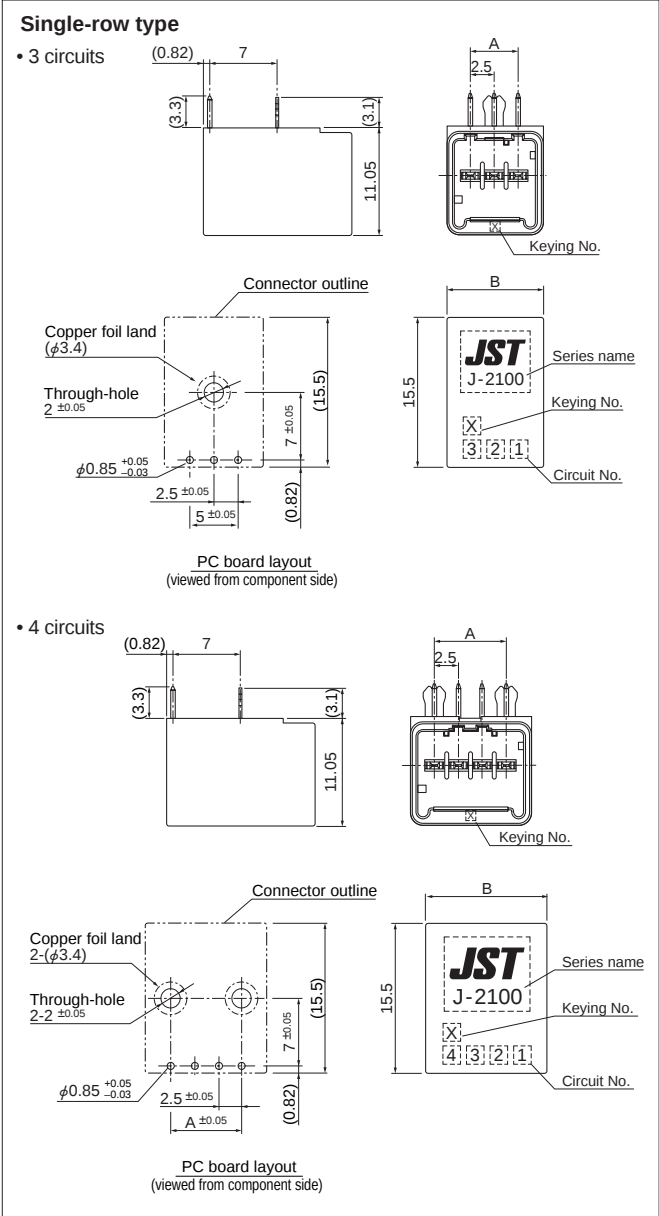
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	S03B-J21SK-GGXR	5.0	10.2	294
	Y	S03B-J21SK-GGYR	5.0	10.2	294
4	X	S04 B-J21SK-GGXR	7.5	12.7	238
	Y	S04 B-J21SK-GGYR	7.5	12.7	238

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

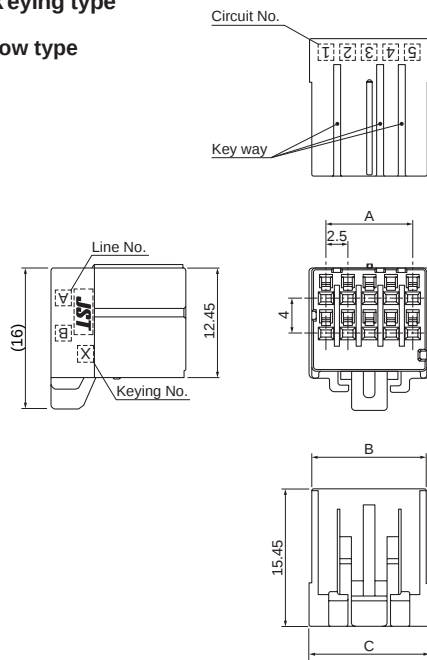
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

Receptacle housing (Center locking type)

Long keying type

Double-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	X	J21DF-06V-KX	5.0	8.3	8.9	300
	Y	J21DF-06V-KY	5.0	8.3	8.9	300
	X	J21DF-06V-KX-L	5.0	8.3	8.9	300
	Y	J21DF-06V-KY-L	5.0	8.3	8.9	300
8	X	J21DF-08V-KX-L	7.5	10.8	11.4	300
	Y	J21DF-08V-KY-L	7.5	10.8	11.4	300
10	X	J21DF-10V-KX-L	10.0	13.3	13.9	200
	Y	J21DF-10V-KY-L	10.0	13.3	13.9	200
12	X	J21DF-12V-KX-L	12.5	15.8	16.4	200
	Y	J21DF-12V-KY-L	12.5	15.8	16.4	200
16	X	J21DF-16V-KX-L	17.5	20.8	21.4	200
	Y	J21DF-16V-KY-L	17.5	20.8	21.4	200
20	X	J21DF-20V-KX-L	22.5	25.8	26.4	100
	Y	J21DF-20V-KY-L	22.5	25.8	26.4	100

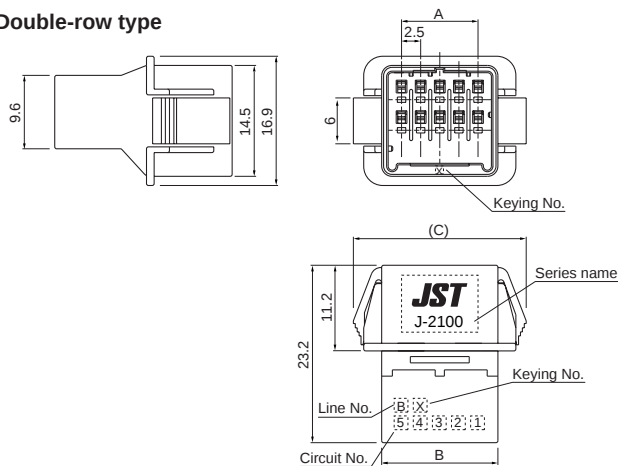
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

Double-row type



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
6	X	J21DPM-06V-KX	5.0	10.2	17.6	156
	Y	J21DPM-06V-KY	5.0	10.2	17.6	156
10	X	J21DPM-10V-KX	10.0	15.2	22.6	120
	Y	J21DPM-10V-KY	10.0	15.2	22.6	120
12	X	J21DPM-12V-KX	12.5	17.7	25.1	108
	Y	J21DPM-12V-KY	12.5	17.7	25.1	108
16	X	J21DPM-16V-KX	17.5	22.7	30.1	84
	Y	J21DPM-16V-KY	17.5	22.7	30.1	84
20	X	J21DPM-20V-KX	22.5	27.7	35.1	72
	Y	J21DPM-20V-KY	22.5	27.7	35.1	72

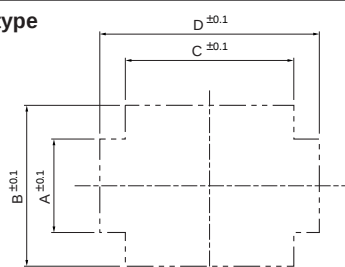
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Panel layout

Double-row type

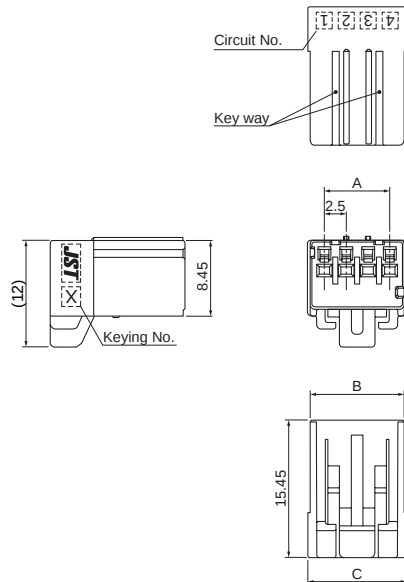


Circuits	Dimensions (mm)			
	A	B	C	D
6	8.6	14.8	10.5	15.2
10	8.6	14.8	15.5	20.2
12	8.6	14.8	18.0	22.7
16	8.6	14.8	23.0	27.7
20	8.6	14.8	28.0	32.7

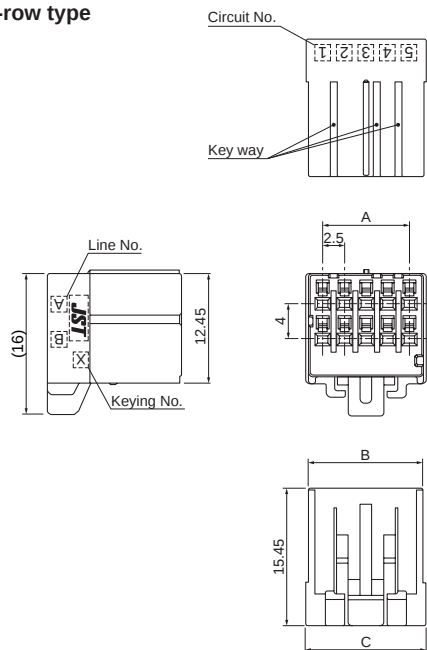
Receptacle housing (Center locking type)

Short keying type

Single-row type



Double-row type



Single-row type

Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	J21SF-03V-KX	5.0	8.3	8.9	400
	Y	J21SF-03V-KY	5.0	8.3	8.9	400
4	X	J21SF-04 V-KX	7.5	10.8	11.4	400
	Y	J21SF-04 V-KY	7.5	10.8	11.4	400

Double-row type

Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
8	X	J21DF-08V-KX	7.5	10.8	11.4	300
	Y	J21DF-08V-KY	7.5	10.8	11.4	300
10	X	J21DF-10V-KX	10.0	13.3	13.9	200
	Y	J21DF-10V-KY	10.0	13.3	13.9	200
12	X	J21DF-12V-KX	12.5	15.8	16.4	200
	Y	J21DF-12V-KY	12.5	15.8	16.4	200
16	X	J21DF-16V-KX	17.5	20.8	21.4	200
	Y	J21DF-16V-KY	17.5	20.8	21.4	200
20	X	J21DF-20V-KX	22.5	25.8	26.4	100
	Y	J21DF-20V-KY	22.5	25.8	26.4	100

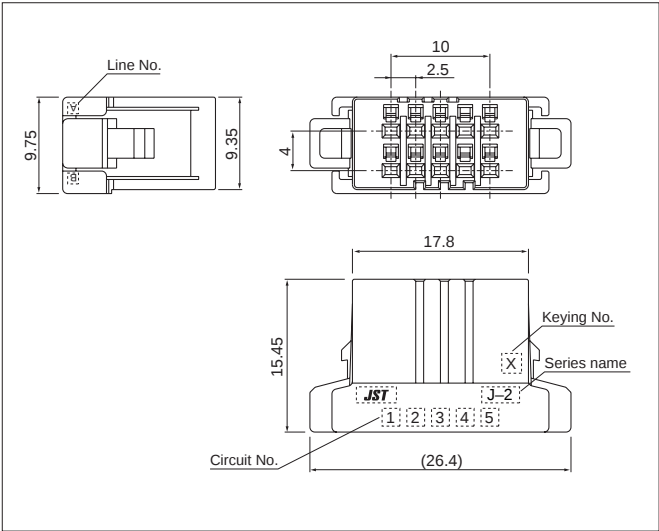
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

J2000 SERIES/J2200

Receptacle housing (Side locking type)

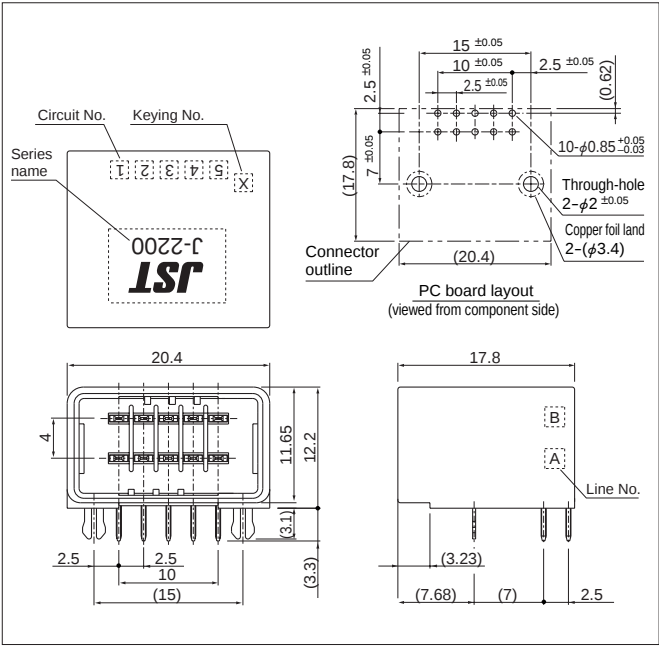


Circuits	Keying	Model No.	Q'ty / bag
10	X	J22DF-10V-KX	250
	Y	J22DF-10V-KY	250

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

Header Side entry type (Side locking type)

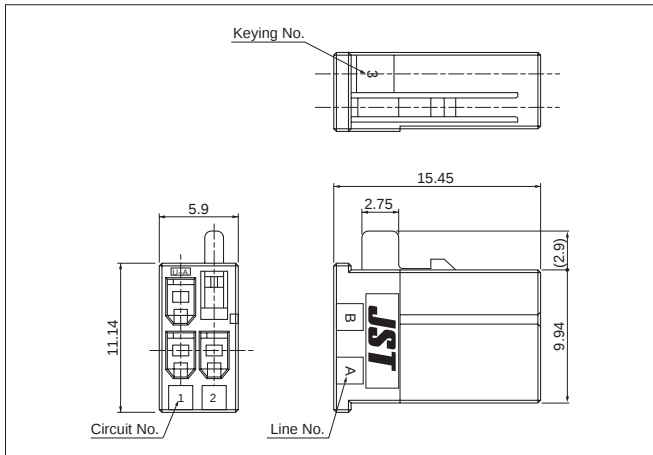


Circuits	Keying	Model No.	Q'ty / box
10	X	S10B-J22DK-GGXR	120
	Y	S10B-J22DK-GGYR	120

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated			
Housing: Glass-filled PBT, UL94V-0, black			
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated			

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

Receptacle housing (Common type for sensor)

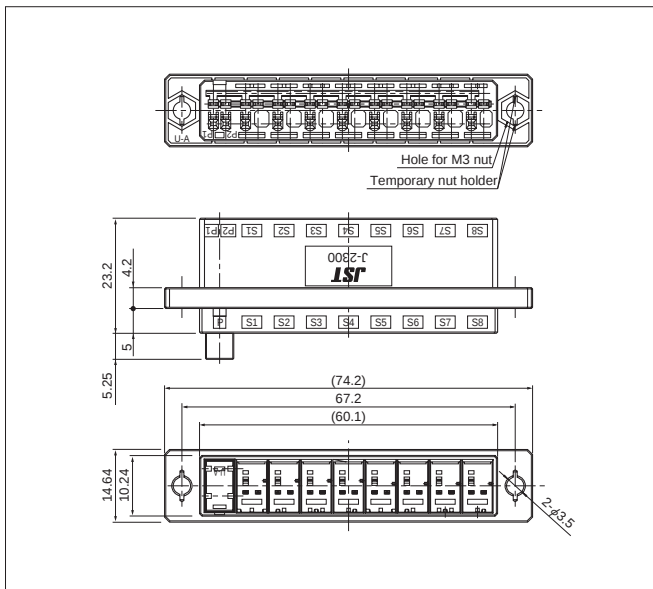


Circuits	Keying	Model No.	Q'ty / box
3	S1	J23CF-03V-KS1	784
	S2	J23CF-03V-KS2	784
	S3	J23CF-03V-KS3	784
	S4	J23CF-03V-KS4	784
	S5	J23CF-03V-KS5	784
	S6	J23CF-03V-KS6	784
	S7	J23CF-03V-KS7	784
	S8	J23CF-03V-KS8	784

Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

T&P connector



Circuits	Keying	Model No.	Q'ty / box
Input	24	P28B-J23DK-GG NR	64
Output	10		

Material and Finish			
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black			

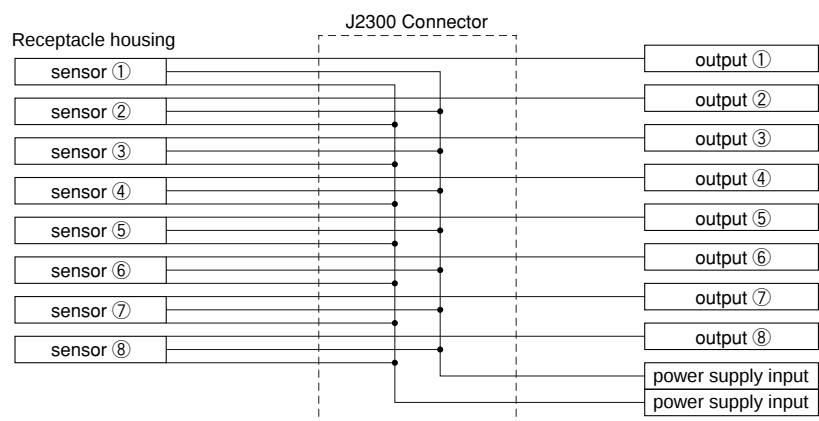
RoHS compliance

• Current rating

Wire size	Current (A)
#20	6.5
#22	5.5
#24	4.0
#26	3.0
#28	2.0

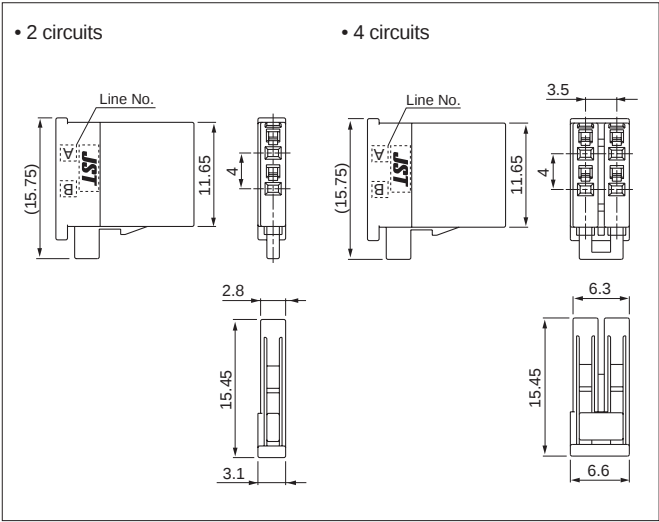
• Voltage rating: 250V AC, DC

• Circuit composition



J2000 SERIES/J2500

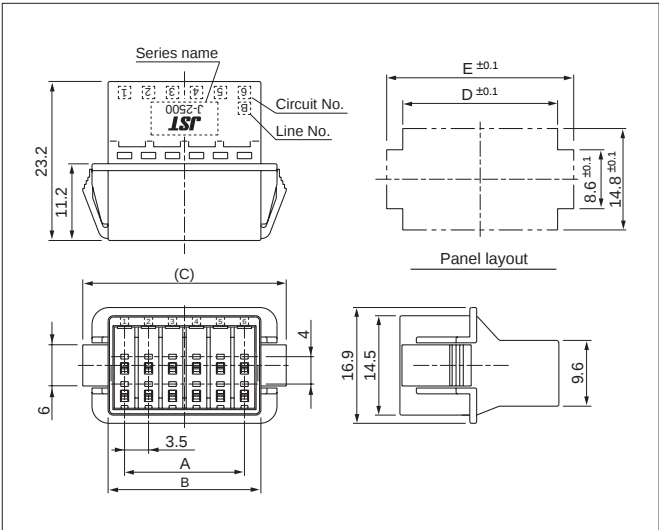
Receptacle housing (Module type)



Circuits	Keying	Model No.	Q'ty / bag
2	—	J25 MF-02V-K	800
4	—	J25 MF-04 V-K	400
Material			
Glass-filled PBT, UL94V-0, black			

RoHS compliance

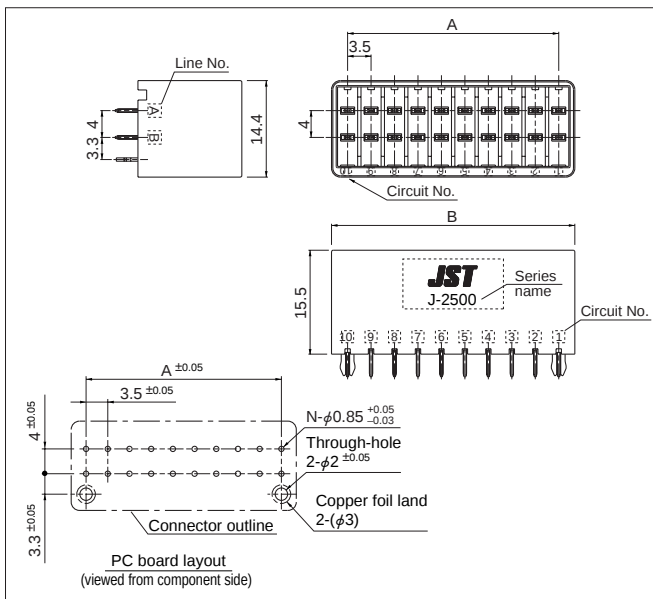
Tab housing (Panel mounting type)



Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	(C)	D	E	
12	—	J25 DPM-12V-K	17.5	22.3	29.7	22.6	27.3	96
20	—	J25 DPM-20V-K	31.5	36.3	43.7	36.6	41.3	132
Material								
Glass-filled PBT, UL94V-0, black								

RoHS compliance
Note: Not UL approved.

Header Top entry type (Module type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	B12B-J25 DK-GGR	17.5	22.3	108
20	—	B20B-J25 DK-GGR	31.5	36.3	72

Material and Finish

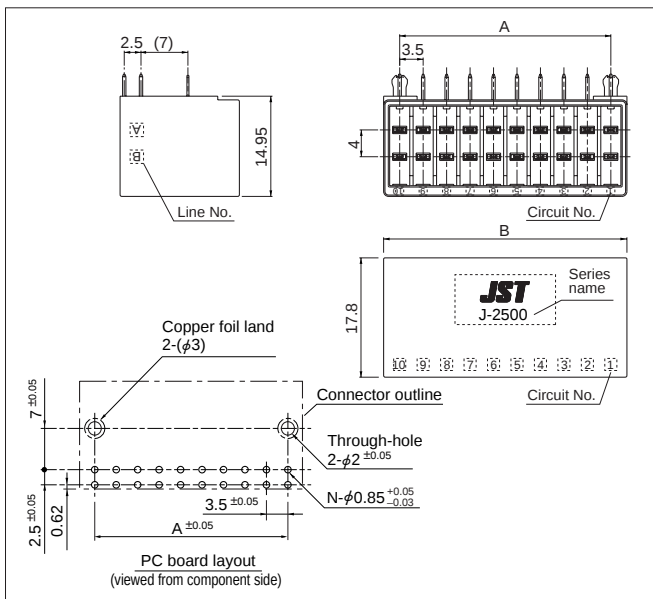
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

Header Side entry type (Module type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	S12B-J25 DK-GGR	17.5	22.3	108
20	—	S20B-J25 DK-GGR	31.5	36.3	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

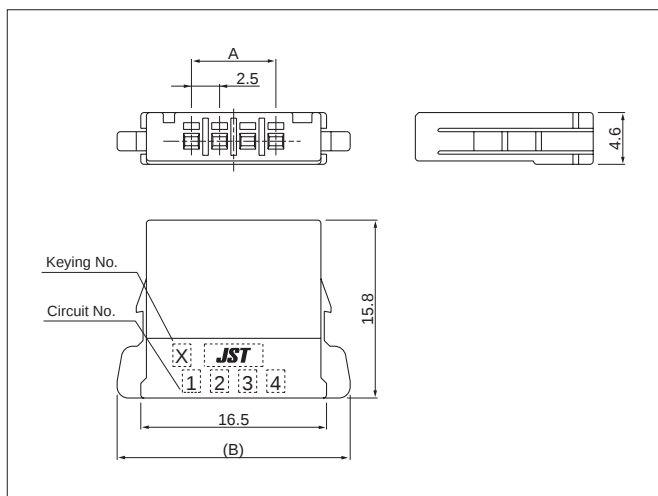
Housing: Glass-filled PBT, UL94V-0, black

Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

J2000 SERIES/J2800

Receptacle housing



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	(B)	
4	X	J28SF-04 V-KX	7.5	20.7	540
	Y	Under planning	—	—	—

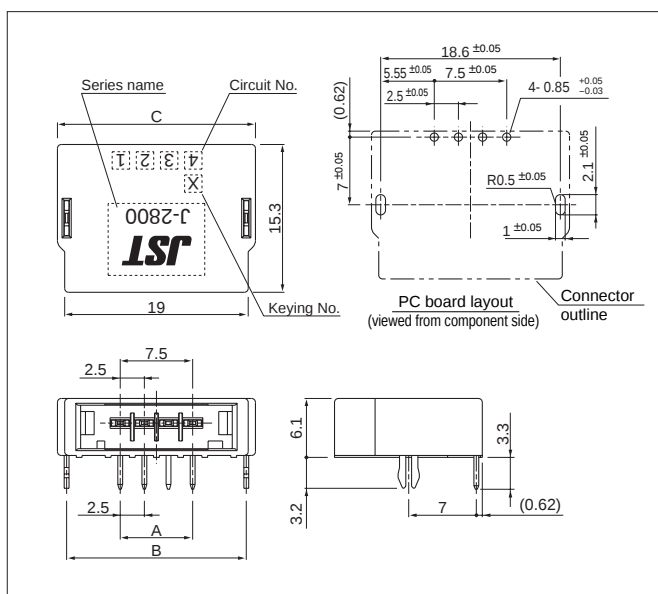
Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

Header Side entry type (Side locking type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	S04 B-J28SK-GGXQ1R	7.5	18.6	20.5	280
	Y	Under planning	—	—	—	—

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

Housing: Glass-filled PBT, UL94V-0, black

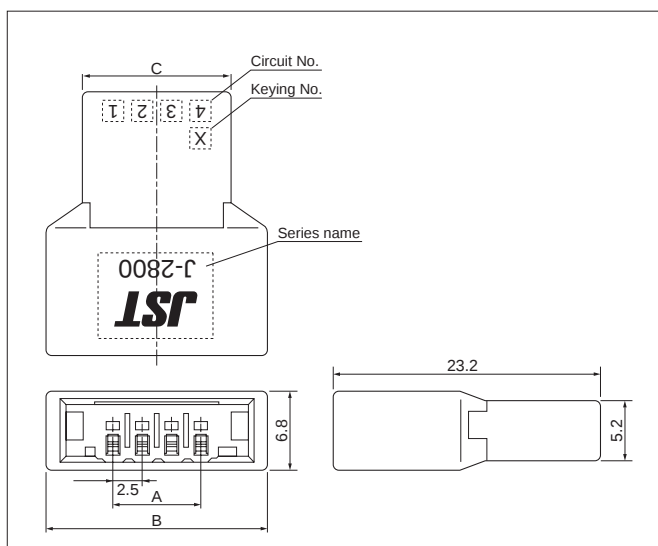
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

Note: 1. 3rd and 4th pins are sequential pins.

1. 3rd and 4th pins ok
2. Not UL approved.

Tab housing (Free hanging type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	J28SFM-04V-KX	7.5	19	12.7	—
	Y	Under planning	7.5	19	12.7	—

Material

PBT, UL94V-0, black

RoHS compliance

Note: Not UL approved.

JFA CONNECTOR/2000 SERIES

Model number identification

Receptacle contact

S J2 F - 01 GF - P 1.0

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...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38μm selective gold-plated

Material: P...Copper alloy

Terminal size

Tab contact

S J2 M - 01 GF - M 1.0 S

Form: S...Strip form

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG #28 ~ #24
01...AWG #24 ~ #20
21...0.3 to 0.75mm²

Surface finish: GF...Nickel-undercoated, 0.38μm selective gold-plated

Material: M...Copper alloy

Terminal size

Sequential identification: N...Normal, S...Sequential

Receptacle housing

J21 D F-06 V - K X - L

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

Rows: S...Single-row, D...Double-row, M...Module-row
C...For sensor-row

Type of connector: F...Receptacle housing

No. of circuits: 2, 3, 4, 6, 8, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black, S...Natural (White), PK...Pink

Keying: X...X-Keying, Y...Y-Keying, ※...S1 ~ S8

Key way type: L...Long keying type
Blank...Short keying type (6 circuits is long keying type)

Tab housing

J21 D P M-06 V - K X

Series name: J21...Center locking type
J22...Side locking type
J25...Module type

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

Configuration: F...Free hanging, P...Panel mounting

Type of connector: M...Tab housing

No. of circuits: 3, 4, 6, 10, 12, 16, 20

Flammability: UL94V-0

Color indication: K...Black

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

Header

S 04 B - J28 S K - GG X Q1 R

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

No. of circuits: 3, 4, 6, 8, 10, 12, 16, 20

Product name: Header

Series name: J21...Center locking type
J22...Side locking type
J23...Center locking type (for sensor)
J25...Module type
J28...Side locking type (Thin type)

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

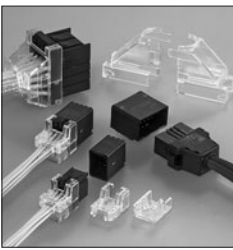
Color indication: K...Black, S...Natural (White), PK...Pink

Surface finish: GG...Nickel-undercoated, 0.38μm selective gold-plated

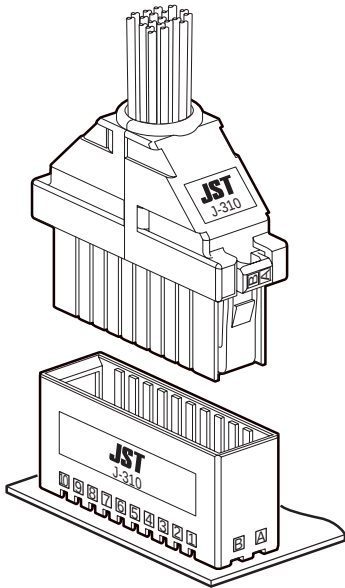
Keying: X...X-Keying, Y...Y-Keying, N...Special keying (S1 ~ S8)

Sequential indication: Q1...Sequential type, Blank...Standard type

Packaging form: R...Tray



JFA CONNECTOR/PROTECTOR

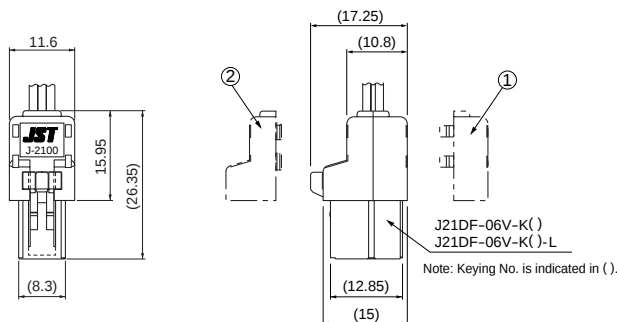


Note: Protector is not UL/CSA/TÜV approved

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series f or 6 circuits



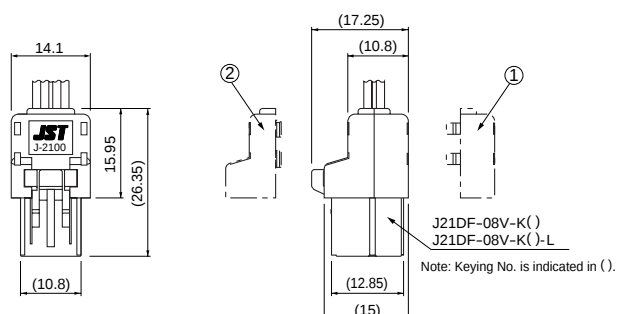
No.	Model No.	Color
①	J21PF-06SCA	Transparent
②	J21PF-06SCB	Transparent

Material

Polycarbonate

RoHS compliance

•J2100 series f or 8 circuits



No.	Model No.	Color
①	J21PF-08SCA	Transparent
②	J21PF-08SCB	Transparent

Material

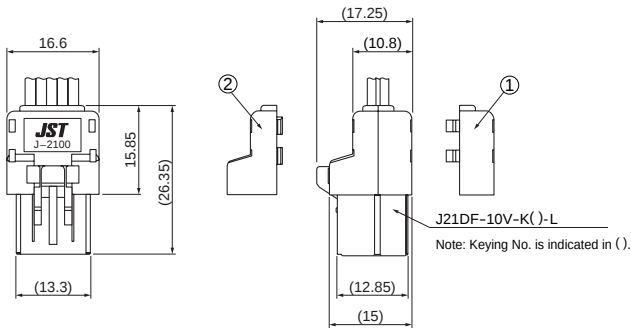
Polycarbonate

RoHS compliance

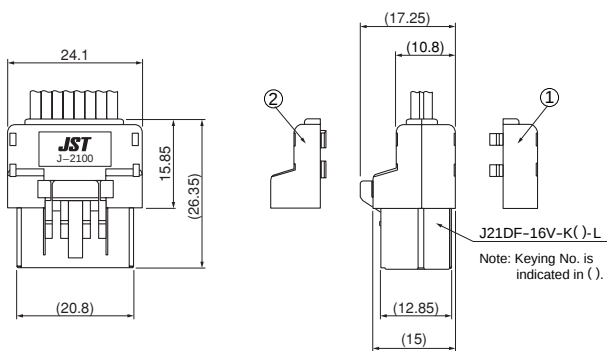
JFA CONNECTOR/PROTECTOR

J2000 Series

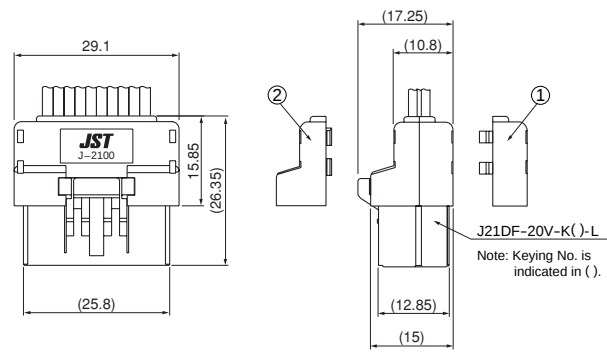
•J2100 series for 10 circuits



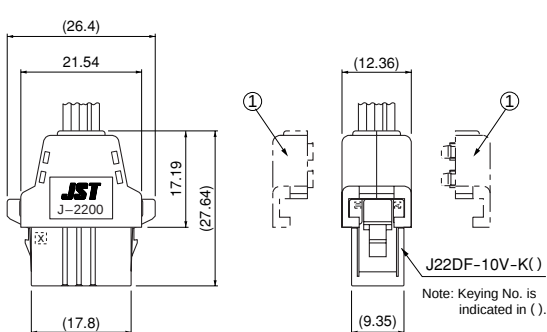
•J2100 series for 16 circuits



•J2100 series for 20 circuits



•J2200 series for 10 circuits



No.	Model No.	Color
①	J21PF-10SCA	Transparent
②	J21PF-10SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-16SCA	Transparent
②	J21PF-16SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

No.	Model No.	Color
①	J21PF-20SCA	Transparent
②	J21PF-20SCB	Transparent
Material		
Polycarbonate		

RoHS compliance

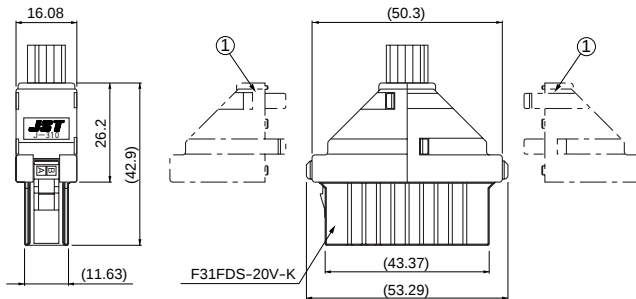
No.	Model No.	Color
①	J22PF-10VK	Black
Material		
Glass-filled PBT		

RoHS compliance
Note: Two protectors are used.

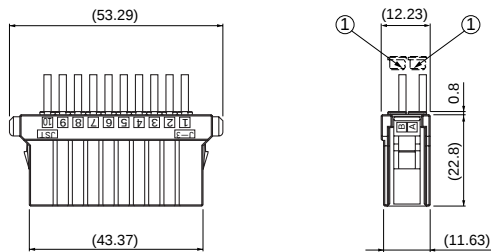
JFA CONNECTOR/PROTECTOR

J300 Series

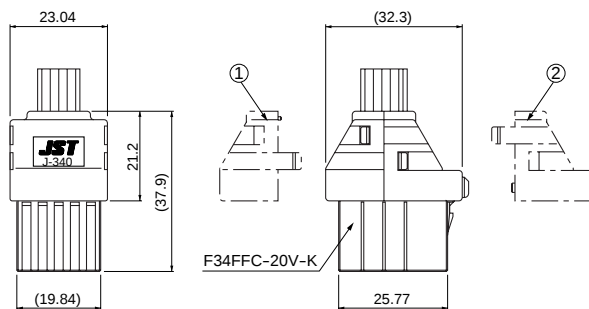
•J310D series for 20 circuits



•J310D series / Embedding-type protector for 8, 10 circuits



•J340F series for 20 circuits



No.	Model No.	Color
①	F31PFD-20VK	Black
①	F31PFD-20SC	Transparent

Material

Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Two protectors of the same color are used.

No.	Model No.	Color
①	F31PFS-10KU	Black

Material

Glass-filled PBT

RoHS compliance

Note: This protector is cut and used for each number of circuits.

No.	Model No.	Color
①	F34PFF-20VKA	Black
	F34PFF-20SCA	Transparent
②	F34PFF-20VKB	Black
	F34PFF-20SCB	Transparent

Material

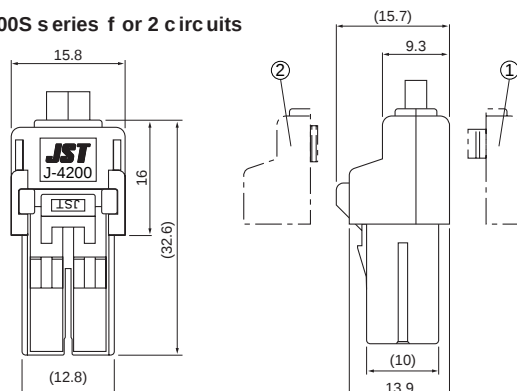
Black: Glass-filled PBT
Transparent: Polycarbonate

RoHS compliance

Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	J42PF-02SCA	Transparent
②	J42PF-02SCB	Transparent

Material

Polycarbonate

RoHS compliance

(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.