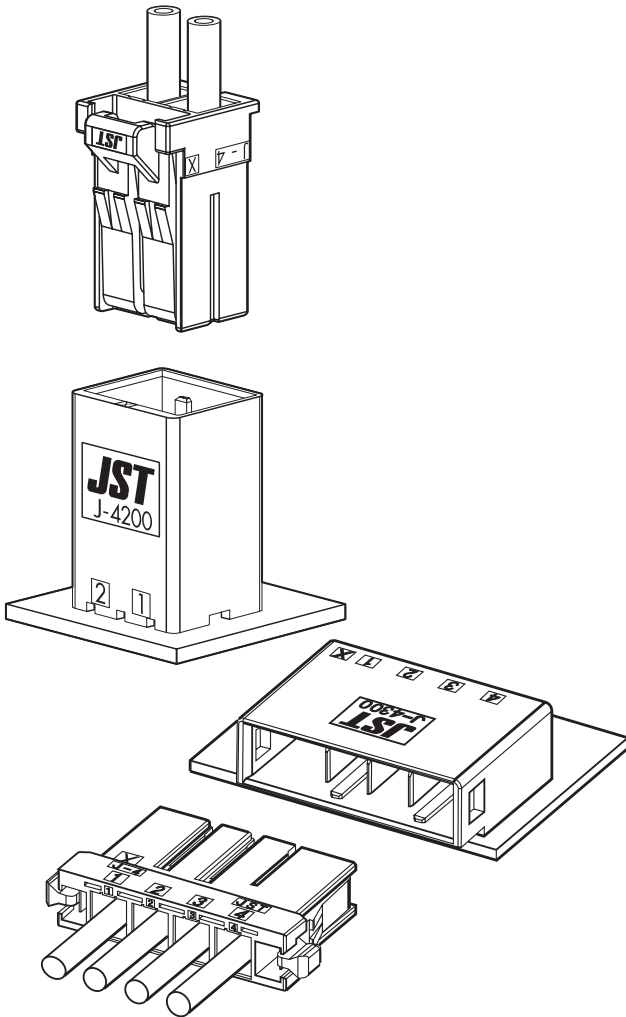


JFA CONNECTOR J4000 SERIES

6.0/6.35mm pitch/Disconnectable Crimp style connectors



Compact and high current capacity connector.
This connector realizes high-density mounting on PC board.

- High current capacity
- Housing lance
- Countermeasure for insertion of foreign substances (with protector)

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 600V AC, DC
- Temperature range: -55°C to +105°C
 (including temperature rise in applying electrical current)
- Withstanding voltage: 2,200V AC/minute
- Applicable wire: AWG #16 to #12 (1.25 to 3.5mm²)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.
 *Compliant with RoHS.

Current rating

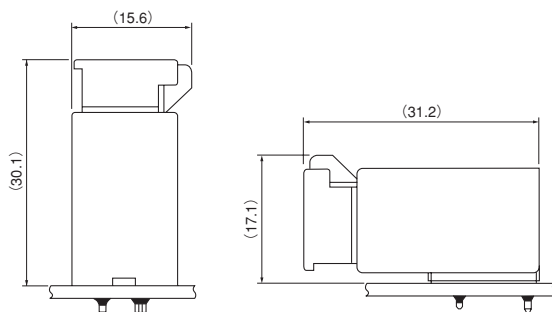
Unit: A

| Circuits | Wire size (AWG) | | |
|----------|-----------------|------|------|
| | #12 | #14 | #16 |
| 2 | 22.0 | 18.0 | 14.0 |
| 3 | 20.0 | 17.0 | 13.5 |
| 4 | 19.0 | 16.0 | 13.0 |
| 6 | 18.0 | 16.0 | 12.5 |

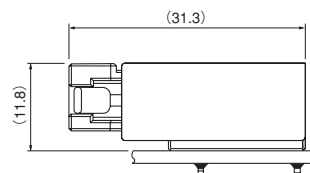
Standards

Recognized E60389

J4200

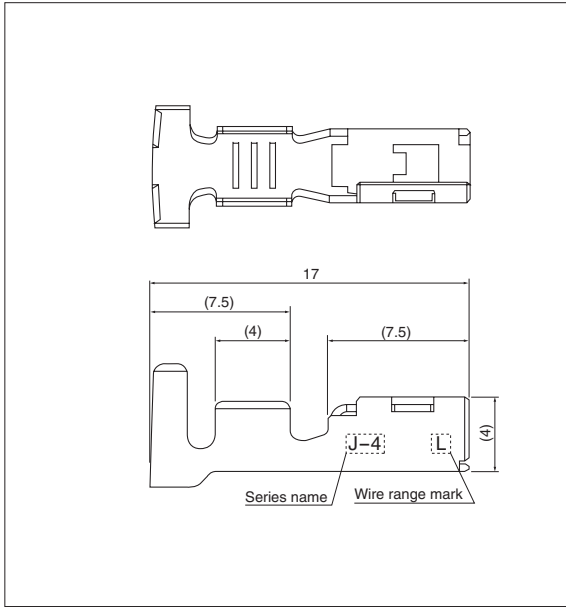


J4300



JFA CONNECTOR/J4000 SERIES

Receptacle contact



| Model No. | | Applicable wire | | | Insulation O.D. (mm) | Q'ty | |
|-----------------------|-----------------------|-----------------|-----------------|-------|-------------------------|-------|----------------------|
| Strip contact | Loose piece contact | Nominal | mm ² | AWG# | | reel | box (Loose piece) |
| SJ4F-71GF-M3.0 | BJ4F-71GF-M3.0 | M | 1.25~2.0 | 16~14 | 2.0~3.8 | 1,400 | 350 |
| SJ4F-81GF-M3.0 | BJ4F-81GF-M3.0 | L | 2.0~3.5 | 14~12 | 2.9~4.2 | 1,400 | 350 |

Material and Finish

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

RoHS compliance

Note: Finish(GF): Nickel-undercoated, 0.38 μm selective gold-plated

Crimping machine, Applicator

| Strip contact Model No. | Crimping machine | Crimp applicator | Dies | Crimp applicator with dies |
|----------------------------|---------------------|------------------|---------------|-------------------------------|
| SJ4F-71GF-M3.0 | AP-K2N | MKS-L-SIN3 | MK/SJ4F-71-30 | APLMK SJ4F71-30 |
| SJ4F-81GF-M3.0 | | | MK/SJ4F-81-30 | APLMK SJ4F81-30 |

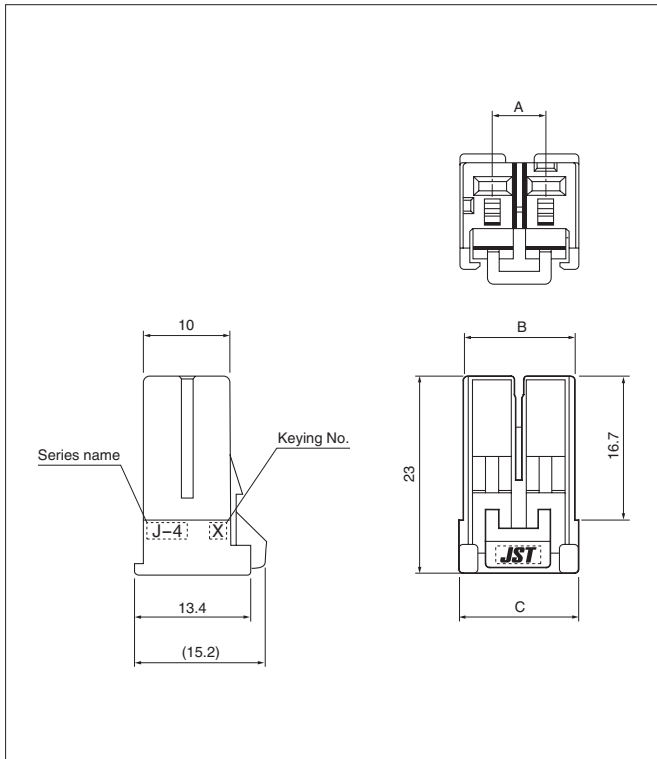
| Loose piece | Hand crimp tools |
|-----------------------|------------------|
| BJ4F-71GF-M3.0 | YRF-1130 |
| BJ4F-81GF-M3.0 | YRF-1370 |

Extraction tool for J4000 series : EJ-JFAJ4

Note: Contact JST for fully automatic crimping applicator.

J4000 SERIES/J4200S

Receptacle housing



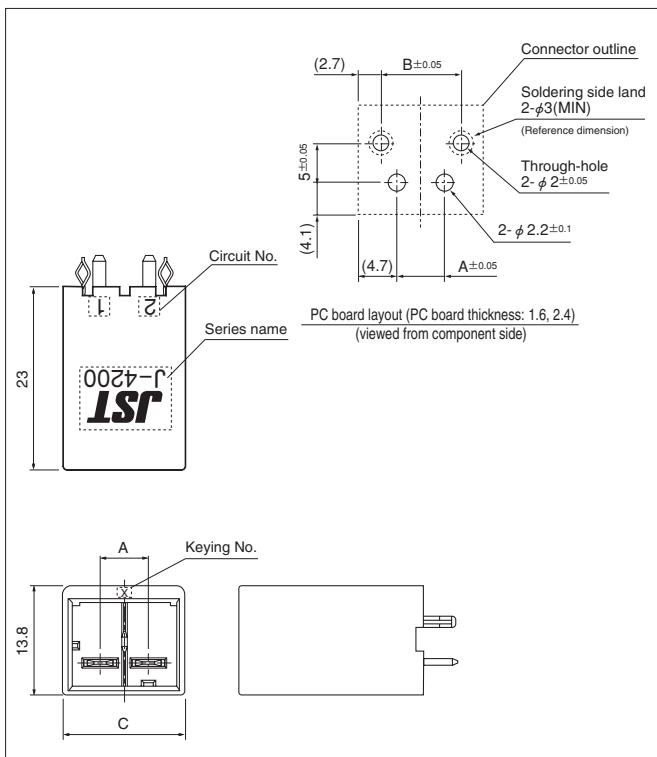
| Circuits | Keying | Model No. | Dimensions (mm) | | | Qty / bag |
|----------|--------|----------------------|-----------------|------|------|-----------|
| | | | A | B | C | |
| 2 | X | J42FSC-02V-KX | 6.0 | 12.8 | 13.6 | 200 |
| | Y | J42FSC-02V-KY | 6.0 | 12.8 | 13.6 | 200 |
| 3 | X | J42FSC-03V-KX | 12.0 | 18.8 | 19.6 | 130 |
| | Y | J42FSC-03V-KY | 12.0 | 18.8 | 19.6 | 130 |
| 6 | X | J42FSC-06V-KX | 30.0 | 36.8 | 37.6 | 70 |
| | Y | J42FSC-06V-KY | 30.0 | 36.8 | 37.6 | 70 |

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



| Circuits | Keying | Model No. | Dimensions (mm) | | | Qty / box |
|----------|--------|-------------------------|-----------------|------|------|-----------|
| | | | A | B | C | |
| 2 | X | BC02B-J42SK-GHXR | 6.0 | 10.0 | 15.4 | 168 |
| | Y | BC02B-J42SK-GHYR | 6.0 | 10.0 | 15.4 | 168 |
| 3 | X | BC03B-J42SK-GHXR | 12.0 | 16.0 | 21.4 | 90 |
| | Y | BC03B-J42SK-GHYR | 12.0 | 16.0 | 21.4 | 90 |
| 6 | X | BC06B-J42SK-GHXR | 30.0 | 34.0 | 39.4 | 45 |
| | Y | BC06B-J42SK-GHYR | 30.0 | 34.0 | 39.4 | 45 |

Material and Finish

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

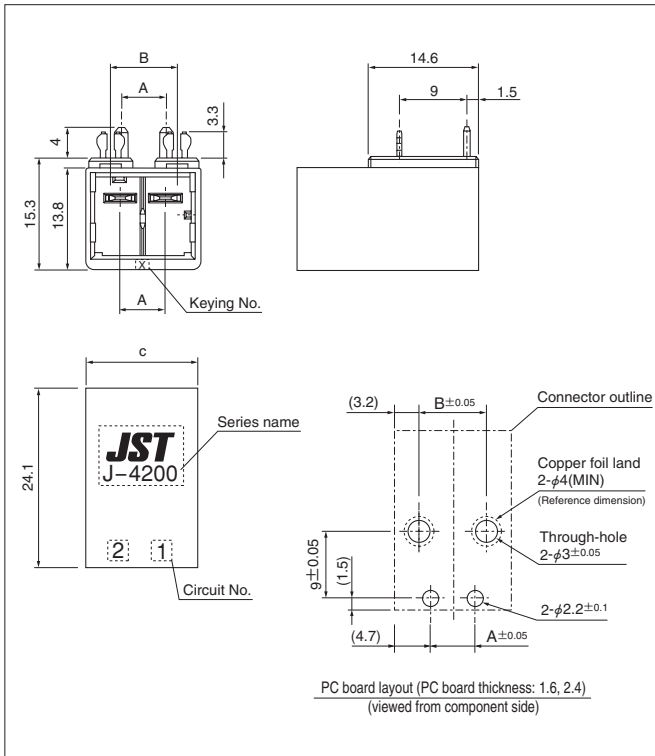
Housing: Glass-filled PBT, UL94V-0, black

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

RoHS compliance

J4000 SERIES/J4200S

Header (Side entry type)



| Circuits | Keying | Model No. | Dimensions (mm) | | | Q'ty / box |
|----------|--------|------------------|-----------------|-----|------|------------|
| | | | A | B | C | |
| 2 | X | SC02B-J42SK-GHXR | 6.0 | 9.0 | 15.4 | 120 |
| | Y | SC02B-J42SK-GHYR | 6.0 | 9.0 | 15.4 | 120 |

Material and Finish

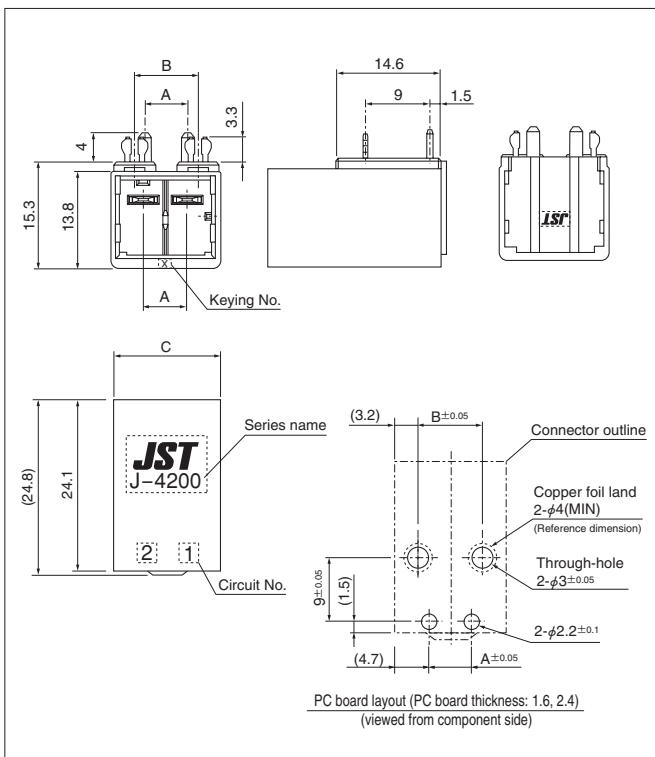
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated

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

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

RoHS compliance

Header (Side entry type with protector)



| Circuits | Keying | Model No. | Dimensions (mm) | | | Q'ty / box |
|----------|--------|-------------------|-----------------|-----|------|------------|
| | | | A | B | C | |
| 2 | X | SC02B-J42SK-GHXPR | 6.0 | 9.0 | 15.4 | 120 |
| | Y | SC02B-J42SK-GHYPR | 6.0 | 9.0 | 15.4 | 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, gold-plated

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

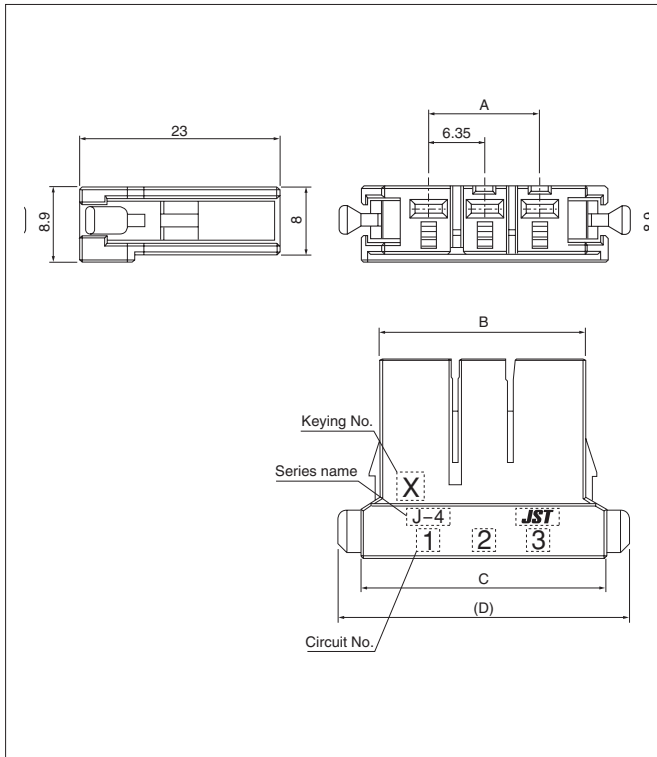
RoHS compliance

(Patent pending)

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the back of the connector.

J4000 SERIES/J4300S

Receptacle housing



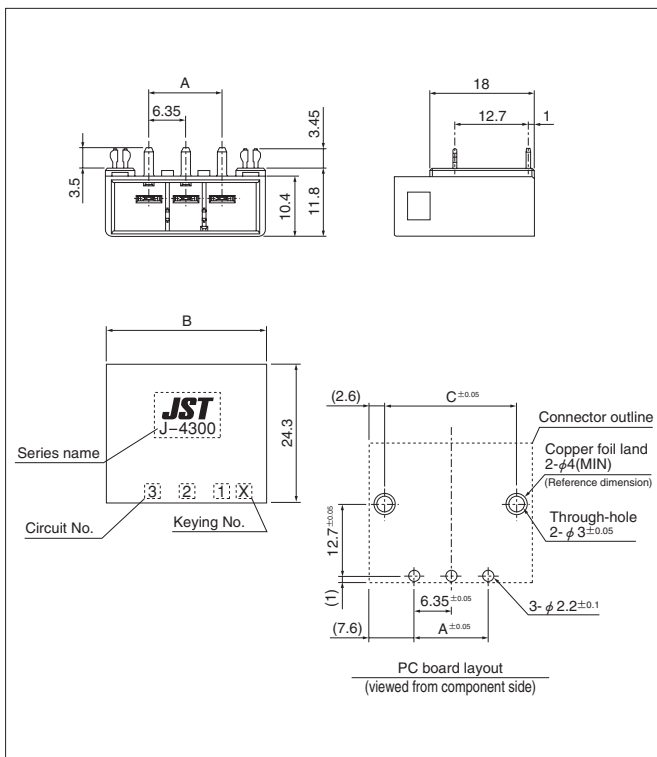
| Circuits | Keying | Model No. | Dimensions (mm) | | | | Qty / bag |
|----------|--------|---------------|-----------------|-------|-------|-------|-----------|
| | | | A | B | C | D | |
| 3 | X | J43FSS-03V-KX | 12.7 | 23.8 | 28.5 | 33.7 | 200 |
| | Y | J43FSS-03V-KY | 12.7 | 23.8 | 28.5 | 33.7 | 200 |
| 4 | X | J43FSS-04V-KX | 19.05 | 30.15 | 34.85 | 40.05 | 200 |
| | Y | J43FSS-04V-KY | 19.05 | 30.15 | 34.85 | 40.05 | 200 |

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



| Circuits | Keying | Model No. | Dimensions (mm) | | | Qty / box |
|----------|--------|-----------------|-----------------|-------|-------|-----------|
| | | | A | B | C | |
| 3 | X | S03B-J43SK-GHXR | 12.7 | 27.9 | 22.7 | 64 |
| | Y | S03B-J43SK-GHYR | 12.7 | 27.9 | 22.7 | 64 |
| 4 | X | S04B-J43SK-GHXR | 19.05 | 34.25 | 29.05 | 48 |
| | Y | S04B-J43SK-GHYR | 19.05 | 34.25 | 29.05 | 48 |

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

JFA CONNECTOR/J4000 SERIES

Model number identification

Receptacle contact

S J4 F - 71 GF - M 3.0

| | |
|---|-----|
| Form: S...Strip form, B...Loose piece | S |
| Series name | J4 |
| Kind of terminal: F...Receptacle contact | F |
| Applicable wire: 71...AWG #16 ~ #14 81...AWG #14 ~ #12 | 71 |
| Surface finish: GF...Nickel-undercoated, 0.38μm selective gold-plated | GF |
| Material: M...Copper alloy | M |
| Terminal size | 3.0 |

Receptacle housing

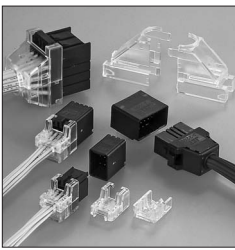
J42 F S C - 02 V - K X

| | |
|---|-----|
| Series name: J42...6.0mm pitch J43...6.35mm pitch | J42 |
| Type of connector: F...Receptacle housing | F |
| Rows: S...Single-row | S |
| Configuration: C...Center locking S...Side locking | C |
| No. of circuits: 2, 3, 4, 6 | 02 |
| Flammability: V...UL94V-0 | V |
| Color indication: K...Black | K |
| Keying: X...X-Keying, Y...Y-Keying | X |

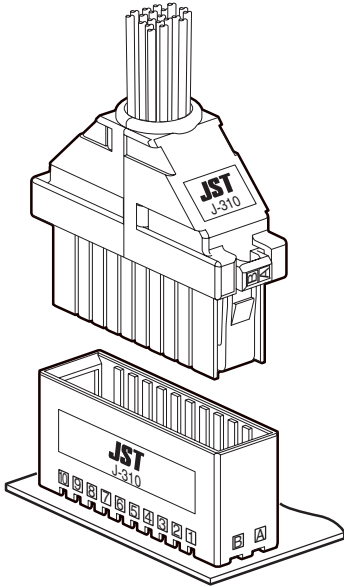
Header

SC 02 B -J42 S K - GH X P R

| | |
|---|-----|
| Form: BC...Top & center locking SC...Side & center locking S...Side locking | SC |
| No. of circuits: 2, 3, 4, 6 | 02 |
| Product name: Header | B |
| Series name: J42...6.0mm pitch J43...6.35mm pitch | J42 |
| Rows: S...Single-row | S |
| Color indication: K...Black | K |
| Surface finish: GH...Nickel-undercoated, selective gold-plated | GH |
| Keying: X...X-Keying, Y...Y-Keying | X |
| Special product: P...With protector, Blank...Standard product | P |
| Packaging form: R...Tray, M...Magazine stick | R |



JFA CONNECTOR/PROTECTOR

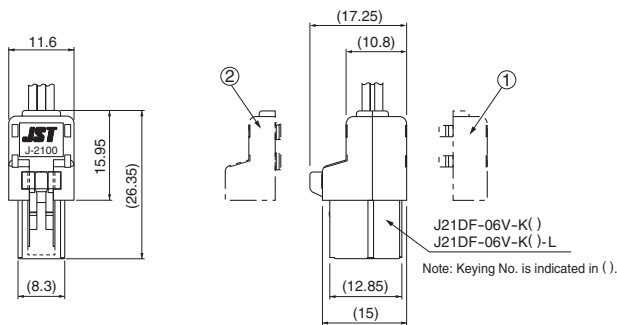


Note: Protector is not UL/CSA/TÜV approved

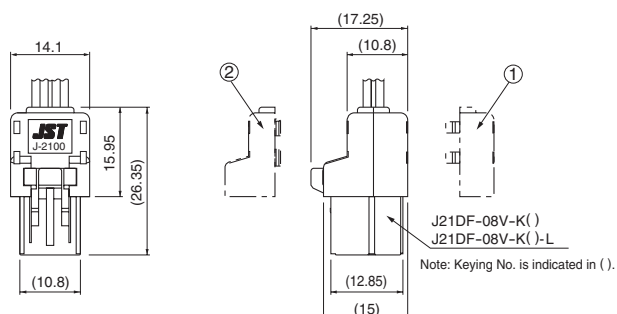
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits



•J2100 series for 8 circuits



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

Material

Polycarbonate

RoHS compliance

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

Material

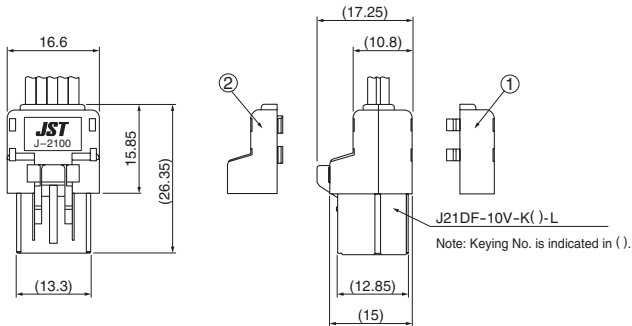
Polycarbonate

RoHS compliance

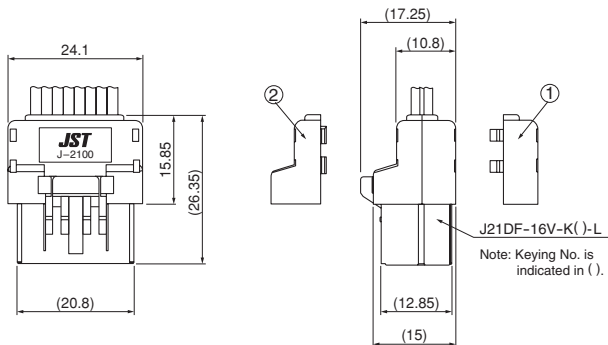
JFA CONNECTOR/PROTECTOR

J2000 Series

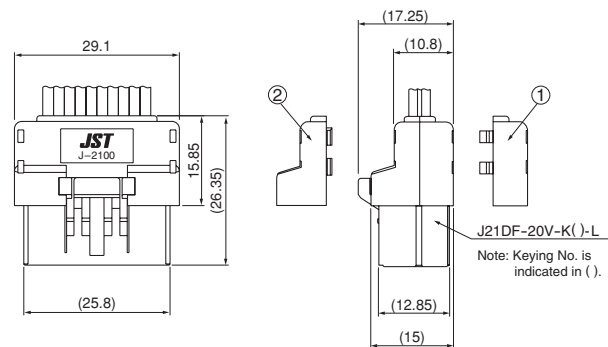
•J2100 series for 10 circuits



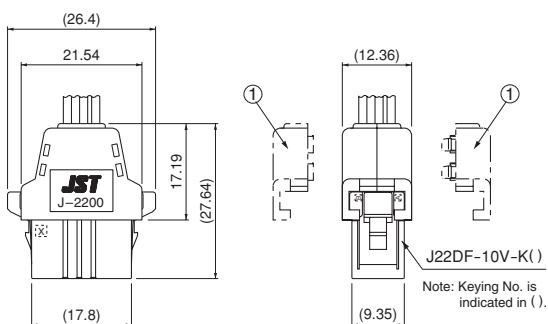
•J2100 series for 16 circuits



•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 | | |

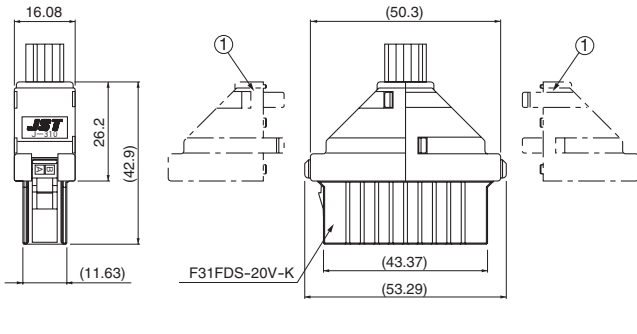
RoHS compliance

Note: Two protectors are used.

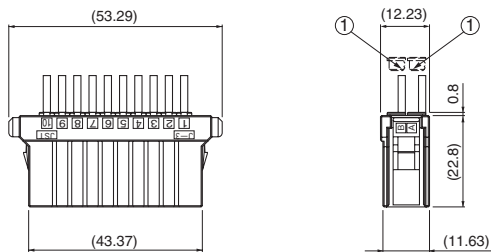
JFA CONNECTOR/PROTECTOR

J300 Series

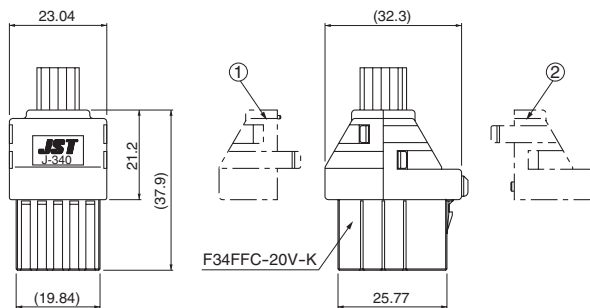
•J310D series for 20 circuits



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

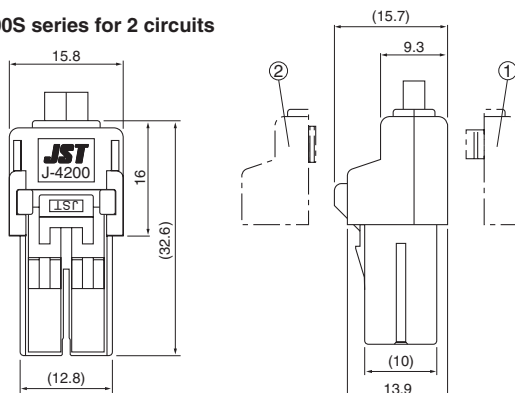


•J340F series for 20 circuits



J4000 Series

•J4200S series for 2 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.

| 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.