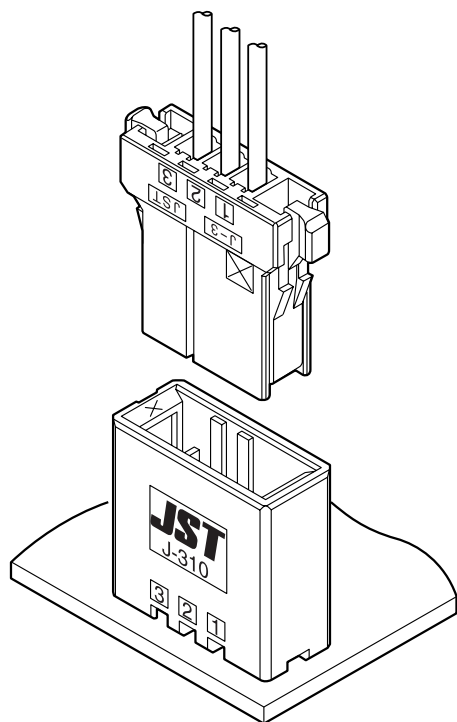


# JFA CONNECTOR J300 SERIES

3.81, 5.08, 5.4 mm pitch/Disconnectable Crimp style connectors(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 the various kinds of housings available, their contacts are designed to be common. The applicable tooling can be standardized.**

- Double-spring construction
- Housing lances
- Clear click feeling

## Specifications

- Current rating: (AC, DC)

Unit: A

| Circuits | Wire size (AWG) |       |       |      |      |      |      |      |
|----------|-----------------|-------|-------|------|------|------|------|------|
|          | #14             | #16   | #18   | #20  | #22  | #24  | #26  | #28  |
| 1        | 15.0            | 14.0  | 11.5  | 9.5  | 8.0  | 6.5  | 5.75 | 4.75 |
| 2        | 13.5            | 13.5  | 11.25 | 9.25 | 7.5  | 6.25 | 5.5  | 4.5  |
| 3        | 12.25           | 12.25 | 10.5  | 8.5  | 7.0  | 5.75 | 5.0  | 4.1  |
| 4        | 11.25           | 11.25 | 10.0  | 8.0  | 6.5  | 5.5  | 4.75 | 4.0  |
| 5        | 10.5            | 10.5  | 9.5   | 7.5  | 6.25 | 5.25 | 4.5  | 4.0  |
| 6        | 9.75            | 9.75  | 9.0   | 7.0  | 6.0  | 5.0  | 4.25 | 3.75 |
| 8        | 9.0             | 9.0   | 8.25  | 6.5  | 5.5  | 4.5  | 3.75 | 3.25 |
| 9        | 8.5             | 8.5   | 8.0   | 6.25 | 5.25 | 4.5  | 3.75 | 3.25 |
| 10       | 8.5             | 8.5   | 8.0   | 6.25 | 5.25 | 4.5  | 3.75 | 3.25 |
| 12       | 8.25            | 8.25  | 7.75  | 6.0  | 5.0  | 4.0  | 3.5  | 3.0  |
| 16       | 8.0             | 8.0   | 7.5   | 6.0  | 4.75 | 4.0  | 3.5  | 3.0  |
| 20       | 8.0             | 8.0   | 7.25  | 6.0  | 4.5  | 4.0  | 3.5  | 2.75 |

- Voltage rating: J310/J340 series (3.81 mm pitch) 250 V AC, DC  
J320/J350 series (5.08 mm pitch) 600 V AC, DC  
J330 series (5.4 mm pitch) 600 V AC, DC
- Temperature range: -55°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 5 mΩ max.  
After environmental tests/ 10 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage:  
J310/J340 series (3.81 mm pitch) 1,500 VAC/minute  
J320/J350 series (5.08 mm pitch) 2,200 VAC/minute  
J330 series (5.4 mm pitch) 2,200 VAC/minute
- Applicable wire: AWG #28 to #14
- Applicable PC board thickness: 1.6 to 2.4 mm
- \* Refer to the page of each product for the specifications of the common type (J350D, J360T).
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.
- \* Compliant with RoHS.

## Standards

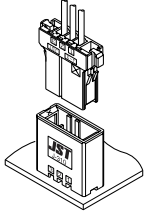
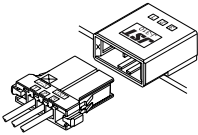
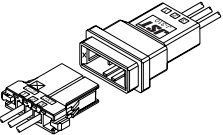
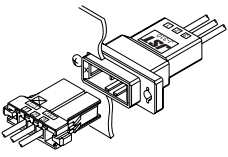
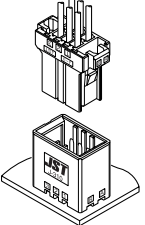
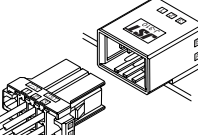
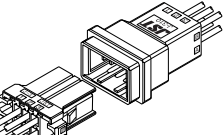
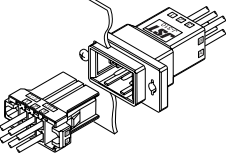
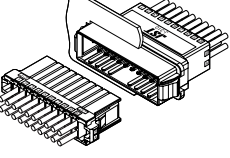
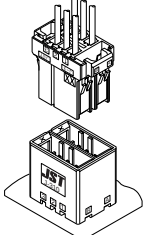
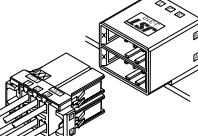
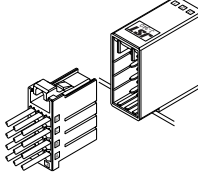
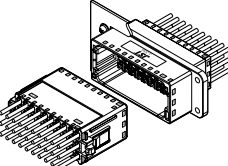
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Certified LR20812

R50133261

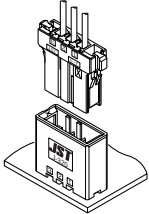
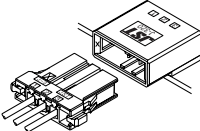
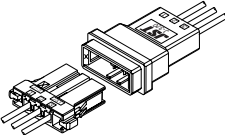
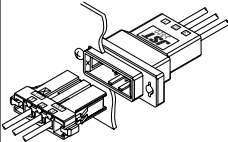
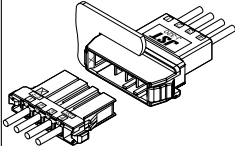
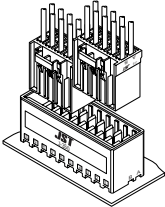
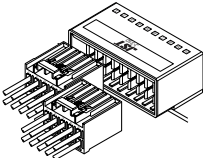
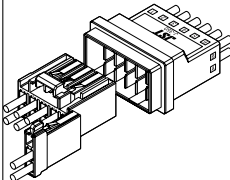
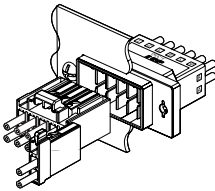
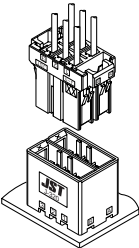
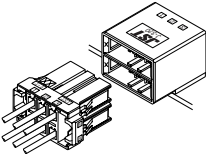
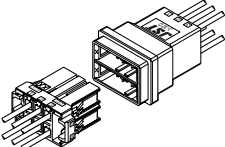
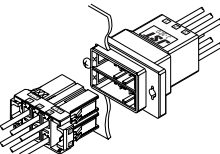
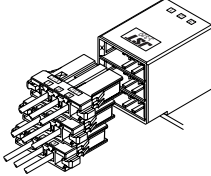
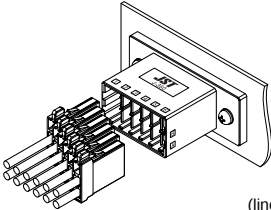
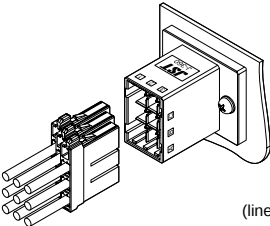
# JFA CONNECTOR/J300 SERIES

## List of J300 series products

| Type                                                              | 3.81 mm pitch / Voltage rating 250 V AC, DC                                         |                                                                                     |                                                                                    |                                                                                       |                                                                                       |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                   | Wire-to-board                                                                       |                                                                                     | Wire-to-wire                                                                       |                                                                                       |                                                                                       |
|                                                                   | Top entry type                                                                      | Side entry type                                                                     | Free hanging type                                                                  | Panel mounting type                                                                   |                                                                                       |
| <b>J310S</b><br>Single-row type                                   |    |    |  |    |    |
| Circuits                                                          | 3, 4, 5, 6, 8, 10                                                                   | 3, 4, 5, 6, 8, 10                                                                   | 3, 4, 5, 8, 10                                                                     | 3, 4, 5, 8, 10                                                                        |                                                                                       |
| <b>J310D</b><br>Double-row type<br>[line pitch 5.08 mm]           |   |    |  |    |    |
| Circuits                                                          | 6, 8, 10, 12, 16, 20                                                                | 6, 8, 10, 12, 16, 20                                                                | 6, 8, 10, 12, 16, 20                                                               | 6, 8, 10, 12, 16, 20                                                                  | 20                                                                                    |
| <b>J310M</b><br>Double-row module<br>type<br>[line pitch 7.62 mm] |  |  |                                                                                    |                                                                                       |                                                                                       |
| Circuits                                                          | 6                                                                                   | 6                                                                                   |                                                                                    |                                                                                       |                                                                                       |
| <b>J340F</b><br>Four-row type<br>[line pitch 5.08 mm]             |                                                                                     |  |                                                                                    |                                                                                       |                                                                                       |
| Circuits                                                          |                                                                                     | 12, 20                                                                              |                                                                                    |                                                                                       |                                                                                       |
| Type                                                              | 5.4 mm pitch / Voltage rating 600 V AC, DC                                          |                                                                                     |                                                                                    |                                                                                       |                                                                                       |
|                                                                   | Wire-to-board                                                                       |                                                                                     | Wire-to-wire                                                                       |                                                                                       |                                                                                       |
|                                                                   | Top entry type                                                                      | Side entry type                                                                     | Free hanging type                                                                  | Panel mounting type                                                                   |                                                                                       |
| <b>J330</b><br>[line pitch 7.7 mm]                                |                                                                                     |                                                                                     |                                                                                    |  |  |
| Circuits                                                          |                                                                                     |                                                                                     |                                                                                    | 30, 40                                                                                |                                                                                       |

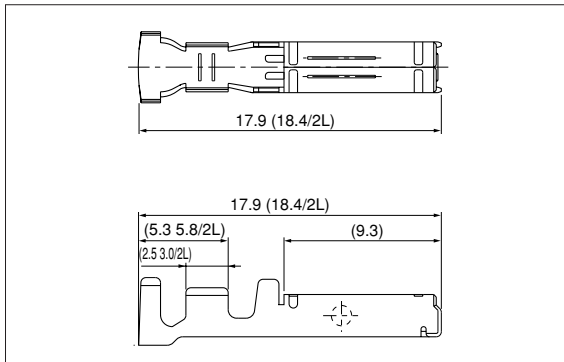
# JFA CONNECTOR/J300 SERIES

## List of J300 series products

| Type                                                           | 5.08 mm pitch / Voltage rating 600 V AC, DC                                                                 |                                                                                     |                                                                                                              |                                                                                                  |                                                                                                          |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|                                                                | Wire-to-board                                                                                               |                                                                                     | Wire-to-wire                                                                                                 |                                                                                                  |                                                                                                          |
|                                                                | Top entry type                                                                                              | Side entry type                                                                     | Free hanging type                                                                                            | Panel mounting type                                                                              |                                                                                                          |
| <b>J320S</b><br>Single-row type                                |                            |    |                             | Screw type<br> | Housing lock type<br> |
| Circuits                                                       | 2, 3, 4, 5, 6                                                                                               | 2, 3, 4, 5, 6                                                                       | 1, 2, 3, 4                                                                                                   | 1, 2, 3, 4                                                                                       | 4                                                                                                        |
| <b>J350D</b><br>Double-row type<br>[line pitch 5.08 mm]        |                           |   |                            |               |                                                                                                          |
| Circuits                                                       | 12, 20                                                                                                      | 4, 12, 20                                                                           | 12                                                                                                           | 12                                                                                               |                                                                                                          |
| <b>J320M</b><br>Double-row module type<br>[line pitch 7.62 mm] |                          |  |                           |              |                                                                                                          |
| Circuits                                                       | 6,10,12                                                                                                     | 6, 8,10,12                                                                          | 6,12                                                                                                         | 6,12, 20                                                                                         |                                                                                                          |
| <b>J320T</b><br>Triple-row module type<br>[line pitch 7.62 mm] |                                                                                                             |  |                                                                                                              |                                                                                                  |                                                                                                          |
| Circuits                                                       |                                                                                                             | 9                                                                                   |                                                                                                              |                                                                                                  |                                                                                                          |
| Common type                                                    | Double-row common type (J350D)                                                                              |                                                                                     | Triple-row common type (J360T)                                                                               |                                                                                                  |                                                                                                          |
|                                                                | <br>(line pitch 5.08 mm) |                                                                                     | <br>(line pitch 6.5 mm) |                                                                                                  |                                                                                                          |
|                                                                | Circuits                                                                                                    |                                                                                     | Circuits                                                                                                     |                                                                                                  |                                                                                                          |
|                                                                | 12                                                                                                          |                                                                                     | 9,18, 24                                                                                                     |                                                                                                  |                                                                                                          |

# JFA CONNECTOR/J300 SERIES

## Receptacle contact



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

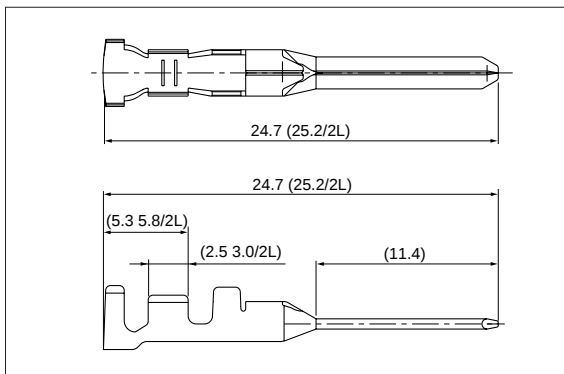
### Material and Finish

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

### RoHS compliance

Note: 1. Finish (\*): GF...Nickel-undercoated, 0.38  $\mu$ m selective gold-plated  
GL...Nickel-undercoated, 0.76  $\mu$ m selective gold-plated  
T.....Tin-plated (reflow treatment)

## Tab contact



| Model No.           |                     | Applicable wire |                 |       | Insulation O.D.<br>(mm) | Q'ty  |                  |
|---------------------|---------------------|-----------------|-----------------|-------|-------------------------|-------|------------------|
| Strip contact       | Loose piece         | Size            | mm <sup>2</sup> | AWG#  |                         | reel  | Box(Loose piece) |
| SF3M-002 (*) -M2.0N | BF3M-002 (*) -M2.0N | S               | 0.08~0.20       | 28~24 | 0.8~1.4                 | 3,500 | 1,000            |
| SF3M-01 (*) -M2.0N  | BF3M-01 (*) -M2.0N  | M               | 0.20~0.50       | 24~20 | 1.2~2.6                 | 3,500 | 1,000            |
| SF3M-41 (*) -M2.0N  | LF3M-41 (*) -M2.0N  | L               | 0.50~1.25       | 20~16 | 1.8~2.8                 | 3,300 | 1,000            |
| SF3M-71 (*) -M2.0N  | BF3M-71 (*) -M2.0N  | 2L              | 1.25~2.0        | 16~14 | 2.4~3.4                 | 3,200 | 1,000            |

### Material and Finish

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

### RoHS compliance

Note: 1. Finish (\*): GF...Nickel-undercoated, 0.38  $\mu$ m selective gold-plated  
GL...Nickel-undercoated, 0.76  $\mu$ m selective gold-plated  
T.....Tin-plated (reflow treatment)

## Crimping machine, Applicator

| Strip contact<br>Model No. | Crimping<br>machine | Applicator       |                  |                            | Hand tools |
|----------------------------|---------------------|------------------|------------------|----------------------------|------------|
|                            |                     | Crimp applicator | Dies             | Crimp applicator with dies |            |
| SF3F-002 (*) -P2.0         | AP-K2N              | MKS-L            | MK/SF3F/M-002-20 | APLMK SF3F/M002-20         | YRK-8821   |
| SF3M-002 (*) -M2.0N        |                     |                  |                  |                            |            |
| SF3F-01 (*) -P2.0          |                     |                  | MK/SF3F/M-01-20  | APLMK SF3F/M01-20          | YRK-8811   |
| SF3M-01 (*) -M2.0N         |                     |                  |                  |                            |            |
| SF3F-41 (*) -P2.0          |                     |                  | MK/SF3F/M-41-20  | APLMK SF3F/M41-20          | YRK-8801   |
| SF3M-41 (*) -M2.0N         |                     |                  |                  |                            |            |
| SF3F-71 (*) -P2.0          |                     |                  | MK/SF3F/M-71-20  | APLMK SF3F/M71-20          | YRK-1071   |
| SF3M-71 (*) -M2.0N         |                     |                  |                  |                            |            |

Note: Finish (\*): GF...Nickel-undercoated, 0.38  $\mu$ m selective gold-plated  
GL...Nickel-undercoated, 0.76  $\mu$ m selective gold-plated  
T.....Tin-plated

| Loose piece         | Hand tools |
|---------------------|------------|
| BF3F-002 (*) -P2.0  | YRF-882    |
| BF3M-002 (*) -M2.0N |            |
| BF3F-01 (*) -P2.0   | YRF-881    |
| BF3M-01 (*) -M2.0N  |            |
| LF3F-41 (*) -P2.0   | YRF-880    |
| LF3M-41 (*) -M2.0N  |            |
| BF3F-71 (*) -P2.0   | YRF-1070   |
| BF3M-71 (*) -M2.0N  | YRF-1071   |

Note: Finish (\*): GF...Nickel-undercoated, 0.38  $\mu$ m selective gold-plated  
GL...Nickel-undercoated, 0.76  $\mu$ m selective gold-plated  
T.....Tin-plated

- Extraction tool for J300 series: EJ-JFAJ3
- Refer to the page of crimping tools for details of YRK series hand crimping tools that uses a strip contact.

## Recognition mark

### ¥ Plating of the contact

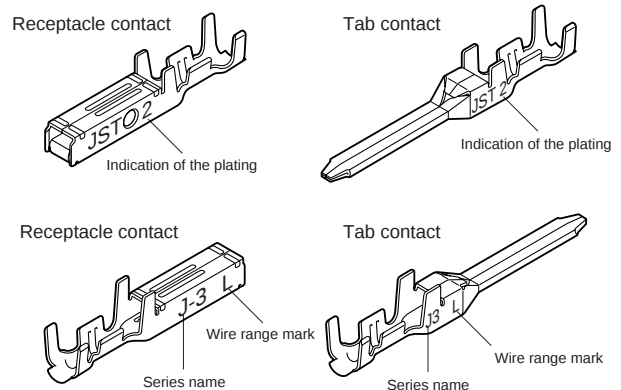
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

- ex. 2 ... gold-plated 0.38  $\mu$ m thickness  
3 ... gold-plated 0.76  $\mu$ m thickness  
5 ... tin-plated

### ¥ Common marking on the contact and its application tools

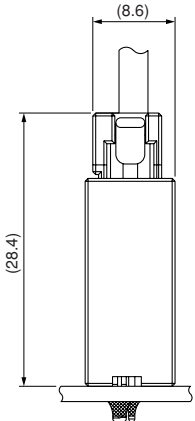
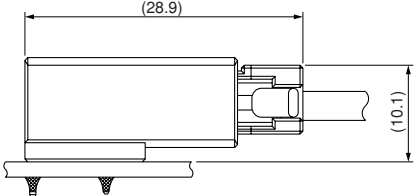
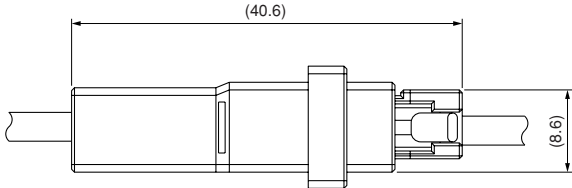
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S..... AWG #28 ~ #24  
M..... AWG #24 ~ #20  
L..... AWG #20 ~ #16  
2L... AWG #16 ~ #14

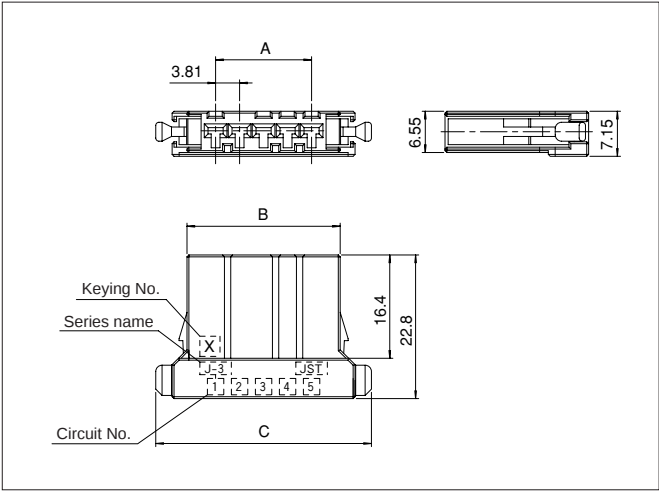


# J300 SERIES/J310S

## Assembly layout

|               |                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                      |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wire-to-board | <p>&lt;Top entry type&gt;</p>  <p>Diagram showing the top entry type wire-to-board assembly. The overall height is 28.4 mm, and the width of the terminal block is 8.6 mm.</p>                                                     | <p>&lt;Side entry type&gt;</p>  <p>Diagram showing the side entry type wire-to-board assembly. The overall length is 28.9 mm, and the height of the terminal block is 10.1 mm.</p> |
| Wire-to-wire  | <p>&lt;Free hanging type / Panel mounting type&gt;</p>  <p>Diagram showing the free hanging type / panel mounting type wire-to-wire assembly. The overall length is 40.6 mm, and the height of the terminal block is 8.6 mm.</p> |                                                                                                                                                                                                                                                                      |

## Receptacle housing



| Circuits | Keying | Model No.            | Dimensions (mm) |       |       | Q'ty /bag |
|----------|--------|----------------------|-----------------|-------|-------|-----------|
|          |        |                      | A               | B     | C     |           |
| 3        | X      | <b>F31FSS-03V-KX</b> | 7.62            | 16.70 | 26.62 | 200       |
|          | Y      | <b>F31FSS-03V-KY</b> | 7.62            | 16.70 | 26.62 | 200       |
| 4        | X      | <b>F31FSS-04V-KX</b> | 11.43           | 20.51 | 30.43 | 200       |
|          | Y      | <b>F31FSS-04V-KY</b> | 11.43           | 20.51 | 30.43 | 200       |
| 5        | X      | <b>F31FSS-05V-KX</b> | 15.24           | 24.32 | 34.24 | 200       |
|          | Y      | <b>F31FSS-05V-KY</b> | 15.24           | 24.32 | 34.24 | 200       |
| 6        | X      | <b>F31FSS-06V-KX</b> | 19.05           | 28.13 | 38.05 | 200       |
|          | Y      | <b>F31FSS-06V-KY</b> | 19.05           | 28.13 | 38.05 | 200       |
| 8        | X      | <b>F31FSS-08V-KX</b> | 26.67           | 35.75 | 45.67 | 100       |
|          | Y      | <b>F31FSS-08V-KY</b> | 26.67           | 35.75 | 45.67 | 100       |
| 10       | X      | <b>F31FSS-10V-KX</b> | 34.29           | 43.37 | 53.29 | 100       |
|          | Y      | <b>F31FSS-10V-KY</b> | 34.29           | 43.37 | 53.29 | 100       |

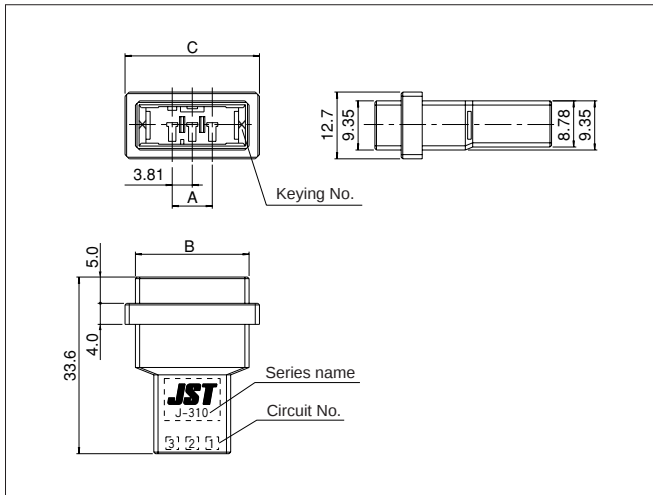
### Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

# J300 SERIES/J310S

## Tab housing (Free hanging type)



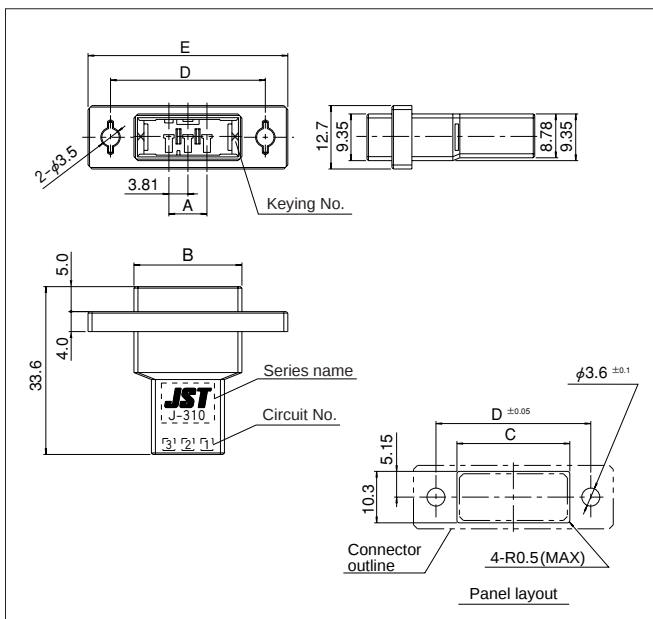
| Circuits | Keying | Model No.            | Dimensions (mm) |       |       | Q'ty /bag |
|----------|--------|----------------------|-----------------|-------|-------|-----------|
|          |        |                      | A               | B     | C     |           |
| 3        | X      | <b>F31MSF-03V-KX</b> | 7.62            | 21.62 | 25.57 | 200       |
|          | Y      | <b>F31MSF-03V-KY</b> | 7.62            | 21.62 | 25.57 | 200       |
| 4        | X      | <b>F31MSF-04V-KX</b> | 11.43           | 25.43 | 29.38 | —         |
|          | Y      | <b>F31MSF-04V-KY</b> | 11.43           | 25.43 | 29.38 | —         |
| 5        | X      | <b>F31MSF-05V-KX</b> | 15.24           | 29.24 | 33.19 | 200       |
|          | Y      | <b>F31MSF-05V-KY</b> | 15.24           | 29.24 | 33.19 | 200       |
| 8        | X      | <b>F31MSF-08V-KX</b> | 26.67           | 40.67 | 44.62 | 100       |
|          | Y      | <b>F31MSF-08V-KY</b> | 26.67           | 40.67 | 44.62 | 100       |
| 10       | X      | <b>F31MSF-10V-KX</b> | 34.29           | 48.29 | 52.24 | 100       |
|          | Y      | <b>F31MSF-10V-KY</b> | 34.29           | 48.29 | 52.24 | 100       |

### Material

Glass-filled PBT, UL94V-0, black

### RoHS compliance

## Tab housing (Panel mounting type)



| Circuits | Keying | Model No.            | Dimensions (mm) |       |       |       |       | Q'ty /bag |
|----------|--------|----------------------|-----------------|-------|-------|-------|-------|-----------|
|          |        |                      | A               | B     | C     | D     | E     |           |
| 3        | X      | <b>F31MSP-03V-KX</b> | 7.62            | 21.62 | 22.60 | 31.00 | 40.00 | 200       |
|          | Y      | <b>F31MSP-03V-KY</b> | 7.62            | 21.62 | 22.60 | 31.00 | 40.00 | 200       |
| 4        | X      | <b>F31MSP-04V-KX</b> | 11.43           | 25.43 | 26.40 | 34.50 | 43.50 | —         |
|          | Y      | <b>F31MSP-04V-KY</b> | 11.43           | 25.43 | 26.40 | 34.50 | 43.50 | —         |
| 5        | X      | <b>F31MSP-05V-KX</b> | 15.24           | 29.24 | 30.20 | 38.00 | 47.00 | 200       |
|          | Y      | <b>F31MSP-05V-KY</b> | 15.24           | 29.24 | 30.20 | 38.00 | 47.00 | 200       |
| 8        | X      | <b>F31MSP-08V-KX</b> | 26.67           | 40.67 | 41.60 | 50.00 | 59.00 | 100       |
|          | Y      | <b>F31MSP-08V-KY</b> | 26.67           | 40.67 | 41.60 | 50.00 | 59.00 | 100       |
| 10       | X      | <b>F31MSP-10V-KX</b> | 34.29           | 48.29 | 49.20 | 58.00 | 67.00 | 100       |
|          | Y      | <b>F31MSP-10V-KY</b> | 34.29           | 48.29 | 49.20 | 58.00 | 67.00 | 100       |

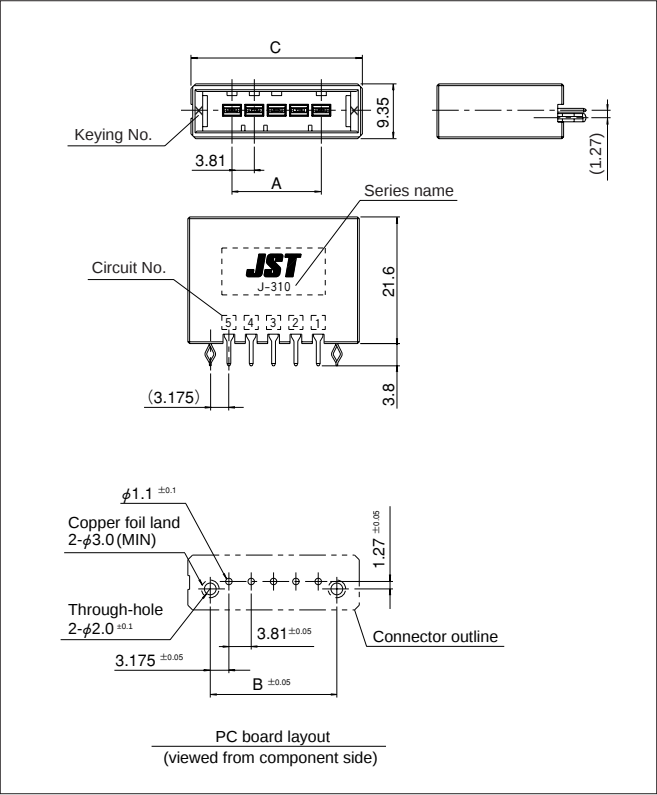
### Material

Glass-filled PBT, UL94V-0, black

### RoHS compliance

# J300 SERIES/J310S

## Header (Top entry type)



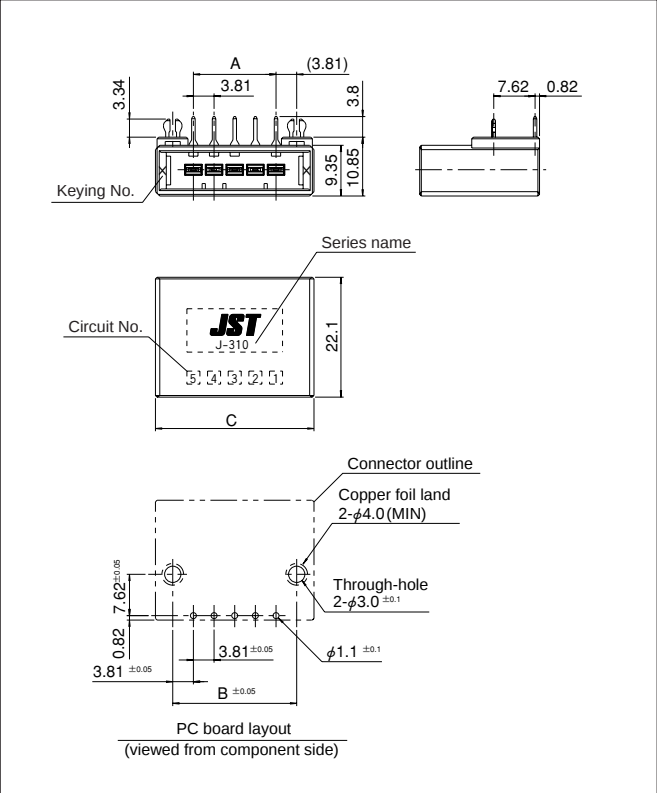
| Circuits | Keying | Model No.       | Dimensions (mm) |       |       | Q'ty/box |
|----------|--------|-----------------|-----------------|-------|-------|----------|
|          |        |                 | A               | B     | C     |          |
| 3        | X      | B03B-F31SK-GGXR | 7.62            | 13.97 | 21.62 | 220      |
|          | Y      | B03B-F31SK-GGYR | 7.62            | 13.97 | 21.62 | 220      |
| 4        | X      | B04B-F31SK-GGXR | 11.43           | 17.78 | 25.43 | 180      |
|          | Y      | B04B-F31SK-GGYR | 11.43           | 17.78 | 25.43 | 180      |
| 5        | X      | B05B-F31SK-GGXR | 15.24           | 21.59 | 29.24 | 160      |
|          | Y      | B05B-F31SK-GGYR | 15.24           | 21.59 | 29.24 | 160      |
| 6        | X      | B06B-F31SK-GGXR | 19.05           | 25.40 | 33.05 | 140      |
|          | Y      | B06B-F31SK-GGYR | 19.05           | 25.40 | 33.05 | 140      |
| 8        | X      | B08B-F31SK-GGXR | 26.67           | 33.02 | 40.67 | 120      |
|          | Y      | B08B-F31SK-GGYR | 26.67           | 33.02 | 40.67 | 120      |
| 10       | X      | B10B-F31SK-GGXR | 34.29           | 40.64 | 48.29 | 100      |
|          | Y      | B10B-F31SK-GGYR | 34.29           | 40.64 | 48.29 | 100      |

### 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.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

## Header (Side entry type)



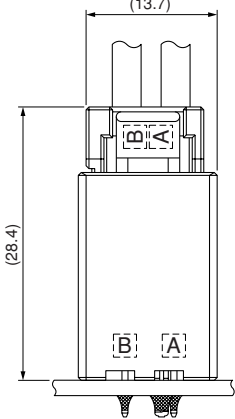
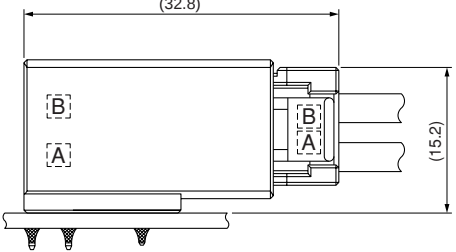
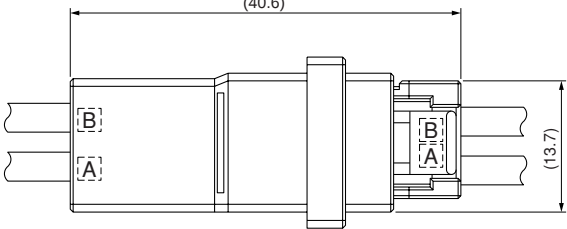
| Circuits | Keying | Model No.       | Dimensions (mm) |       |       | Q'ty/box |
|----------|--------|-----------------|-----------------|-------|-------|----------|
|          |        |                 | A               | B     | C     |          |
| 3        | X      | S03B-F31SK-GGXR | 7.62            | 15.24 | 21.62 | 165      |
|          | Y      | S03B-F31SK-GGYR | 7.62            | 15.24 | 21.62 | 165      |
| 4        | X      | S04B-F31SK-GGXR | 11.43           | 19.05 | 25.43 | 135      |
|          | Y      | S04B-F31SK-GGYR | 11.43           | 19.05 | 25.43 | 135      |
| 5        | X      | S05B-F31SK-GGXR | 15.24           | 22.86 | 29.24 | 120      |
|          | Y      | S05B-F31SK-GGYR | 15.24           | 22.86 | 29.24 | 120      |
| 6        | X      | S06B-F31SK-GGXR | 19.05           | 26.67 | 33.05 | 105      |
|          | Y      | S06B-F31SK-GGYR | 19.05           | 26.67 | 33.05 | 105      |
| 8        | X      | S08B-F31SK-GGXR | 26.67           | 34.29 | 40.67 | 90       |
|          | Y      | S08B-F31SK-GGYR | 26.67           | 34.29 | 40.67 | 90       |
| 10       | X      | S10B-F31SK-GGXR | 34.29           | 41.91 | 48.29 | 75       |
|          | Y      | S10B-F31SK-GGYR | 34.29           | 41.91 | 48.29 | 75       |

### Material and Finish

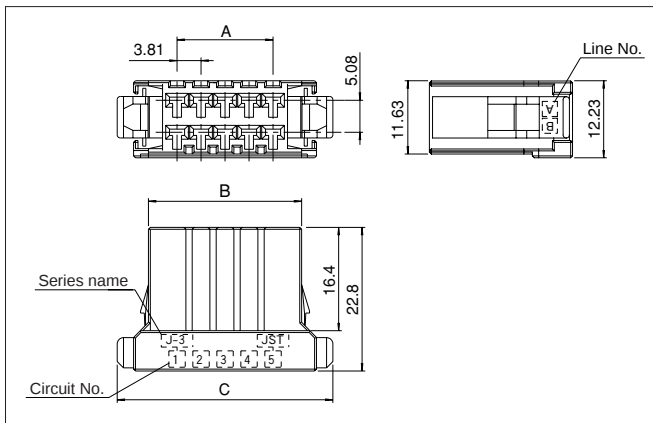
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated  
Housing: Glass-filled PBT, UL94V-0, black  
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

**RoHS compliance** This product displays (LF)(AU) on a label.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

## Assembly layout

|               |                                                                                                                                                                            |                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Wire-to-board | <p>&lt;Top entry type&gt;</p>                                                             | <p>&lt;Side entry type&gt;</p>  |
| Wire-to-wire  | <p>&lt;Free hanging type / Panel mounting type (Screw type, Housing lock type)&gt;</p>  |                                                                                                                    |

## Receptacle housing



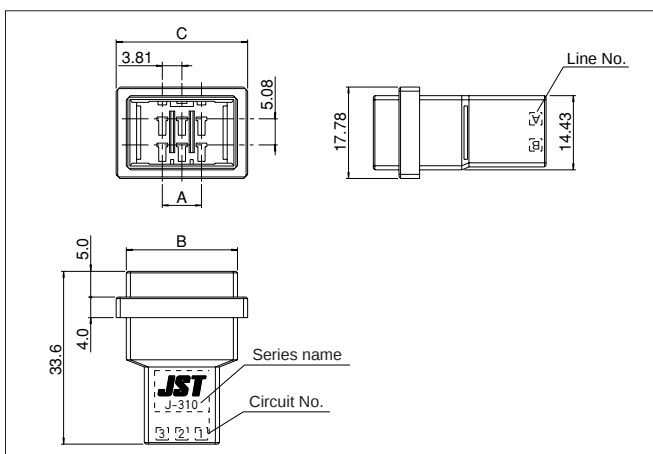
| Circuits | Keying | Model No.           | Dimensions (mm) |       |       | Q'ty/bag |
|----------|--------|---------------------|-----------------|-------|-------|----------|
|          |        |                     | A               | B     | C     |          |
| 6        | —      | <b>F31FDS-06V-K</b> | 7.62            | 16.70 | 26.62 | 200      |
| 8        | —      | <b>F31FDS-08V-K</b> | 11.43           | 20.51 | 30.43 | 100      |
| 10       | —      | <b>F31FDS-10V-K</b> | 15.24           | 24.32 | 34.24 | 100      |
| 12       | —      | <b>F31FDS-12V-K</b> | 19.05           | 28.13 | 38.05 | 100      |
| 16       | —      | <b>F31FDS-16V-K</b> | 26.67           | 35.75 | 45.67 | 100      |
| 20       | —      | <b>F31FDS-20V-K</b> | 34.29           | 43.37 | 53.29 | 100      |

### Material

Glass-filled PBT, UL94V-0, black

### RoHS compliance

## Tab housing (Free hanging type)



| Circuits | Keying | Model No.           | Dimensions (mm) |       |       | Q'ty/bag |
|----------|--------|---------------------|-----------------|-------|-------|----------|
|          |        |                     | A               | B     | C     |          |
| 6        | —      | <b>F31MDF-06V-K</b> | 7.62            | 21.62 | 25.57 | 200      |
| 8        | —      | <b>F31MDF-08V-K</b> | 11.43           | 25.43 | 29.38 | 100      |
| 10       | —      | <b>F31MDF-10V-K</b> | 15.24           | 29.24 | 33.19 | 100      |
| 12       | —      | <b>F31MDF-12V-K</b> | 19.05           | 33.05 | 37.00 | 100      |
| 16       | —      | <b>F31MDF-16V-K</b> | 26.67           | 40.67 | 44.62 | 100      |
| 20       | —      | <b>F31MDF-20V-K</b> | 34.29           | 48.29 | 52.24 | 100      |

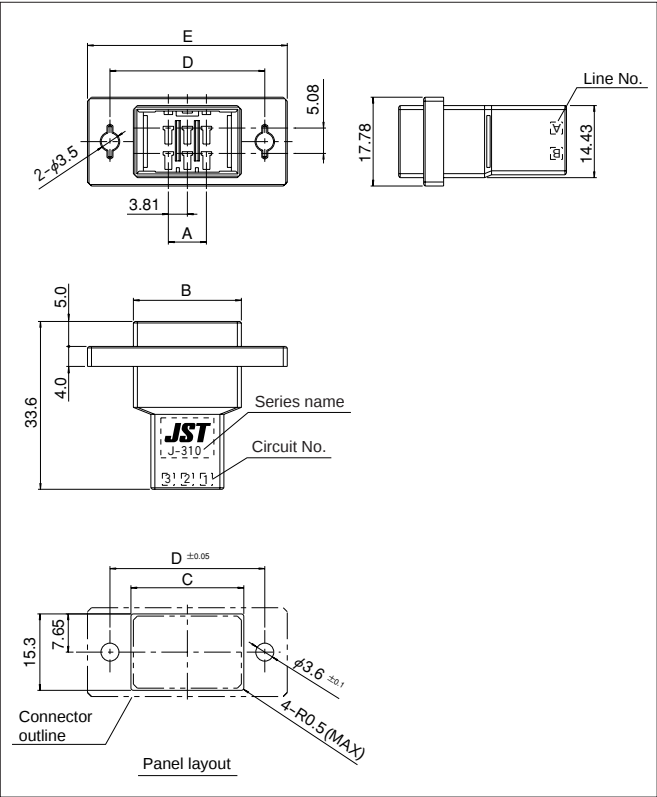
### Material

Glass-filled PBT, UL94V-0, black

### RoHS compliance

# J300 SERIES/J310D

## Tab housing (Panel mounting type)



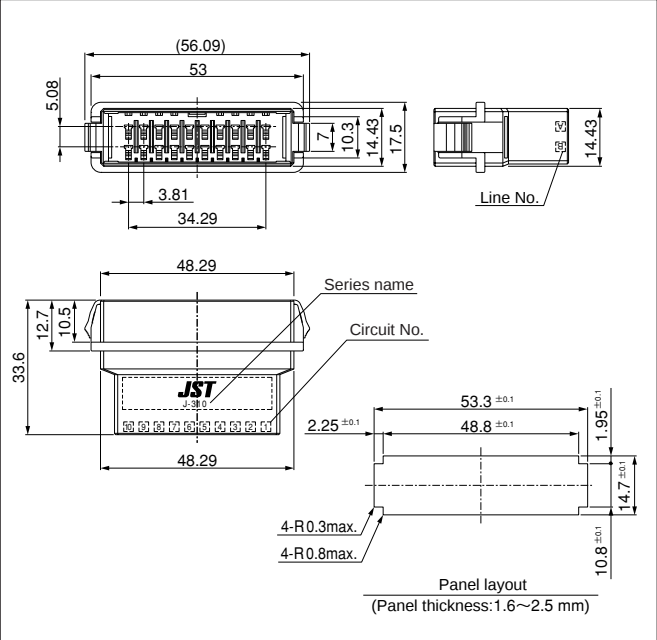
| Circuits | Keying | Model No.    | Dimensions (mm) |       |       |       |       | Q'ty /bag |
|----------|--------|--------------|-----------------|-------|-------|-------|-------|-----------|
|          |        |              | A               | B     | C     | D     | E     |           |
| 6        | —      | F31MDP-06V-K | 7.62            | 21.62 | 22.60 | 31.00 | 40.00 | 200       |
| 8        | —      | F31MDP-08V-K | 11.43           | 25.43 | 26.40 | 34.50 | 43.50 | 100       |
| 10       | —      | F31MDP-10V-K | 15.24           | 29.24 | 30.20 | 38.00 | 47.00 | 100       |
| 12       | —      | F31MDP-12V-K | 19.05           | 33.05 | 34.00 | 42.00 | 51.00 | 100       |
| 16       | —      | F31MDP-16V-K | 26.67           | 40.67 | 41.60 | 50.00 | 59.00 | 100       |
| 20       | —      | F31MDP-20V-K | 34.29           | 48.29 | 49.20 | 58.00 | 67.00 | 100       |

Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

## Tab housing (Panel mounting Housing lock type)



| Circuits | Keying | Model No.     | Q'ty/bag |
|----------|--------|---------------|----------|
| 20       | —      | F31MDPL-20V-K | 80       |

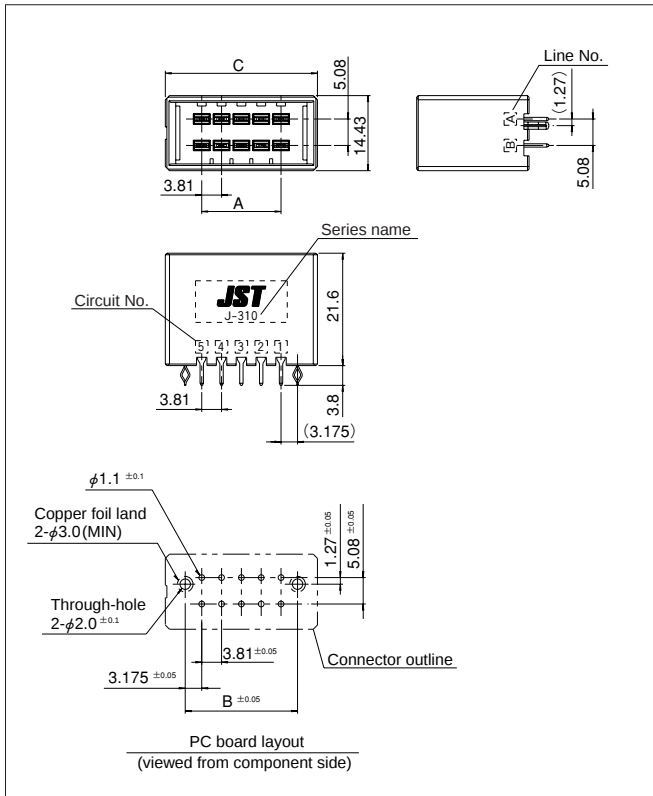
Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

Note: Not CSA/UL/TÜV approved.

## Header (Top entry type)



| Circuits | Keying | Model No.             | Dimensions (mm) |       |       | Q'ty/box |
|----------|--------|-----------------------|-----------------|-------|-------|----------|
|          |        |                       | A               | B     | C     |          |
| 6        | —      | <b>B06B-F31DK-GGR</b> | 7.62            | 13.97 | 21.62 | 132      |
| 8        | —      | <b>B08B-F31DK-GGR</b> | 11.43           | 17.78 | 25.43 | 108      |
| 10       | —      | <b>B10B-F31DK-GGR</b> | 15.24           | 21.59 | 29.24 | 96       |
| 12       | —      | <b>B12B-F31DK-GGR</b> | 19.05           | 25.40 | 33.05 | 84       |
| 16       | —      | <b>B16B-F31DK-GGR</b> | 26.67           | 33.02 | 40.67 | 72       |
| 20       | —      | <b>B20B-F31DK-GGR</b> | 34.29           | 40.64 | 48.29 | 60       |

### Material and Finish

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

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

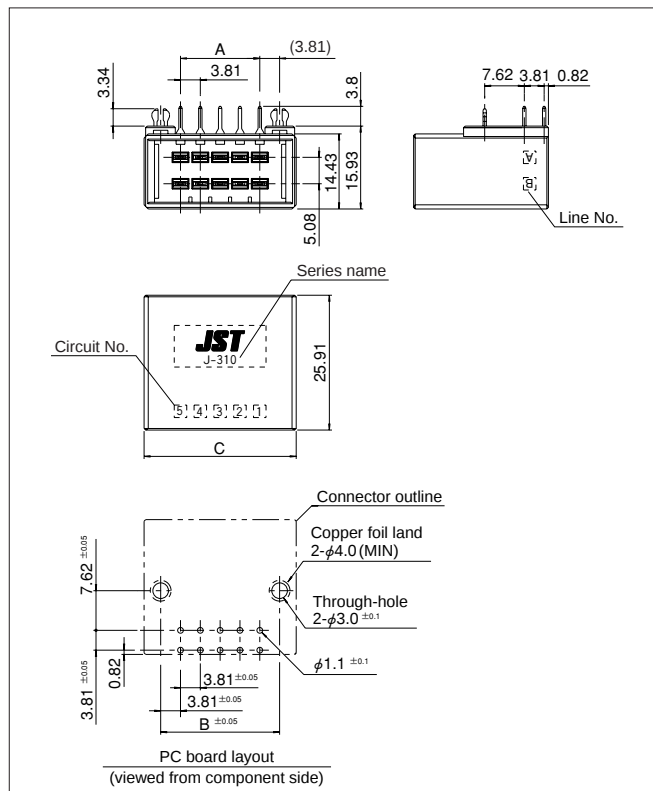
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

Note: 1. Contact JST about the headers supplied in magazine stick.

2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

## Header (Side entry type)



| Circuits | Keying | Model No.             | Dimensions (mm) |       |       | Q'ty/box |
|----------|--------|-----------------------|-----------------|-------|-------|----------|
|          |        |                       | A               | B     | C     |          |
| 6        | —      | <b>S06B-F31DK-GGR</b> | 7.62            | 15.24 | 21.62 | 88       |
| 8        | —      | <b>S08B-F31DK-GGR</b> | 11.43           | 19.05 | 25.43 | 72       |
| 10       | —      | <b>S10B-F31DK-GGR</b> | 15.24           | 22.86 | 29.24 | 64       |
| 12       | —      | <b>S12B-F31DK-GGR</b> | 19.05           | 26.67 | 33.05 | 56       |
| 16       | —      | <b>S16B-F31DK-GGR</b> | 26.67           | 34.29 | 40.67 | 48       |
| 20       | —      | <b>S20B-F31DK-GGR</b> | 34.29           | 41.91 | 48.29 | 40       |

### 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

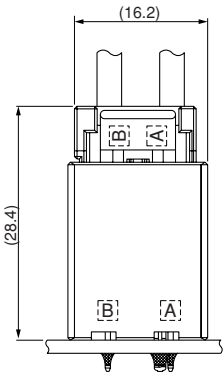
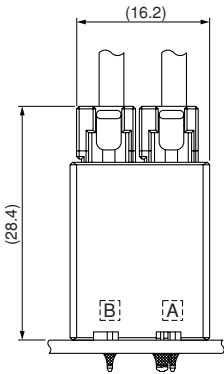
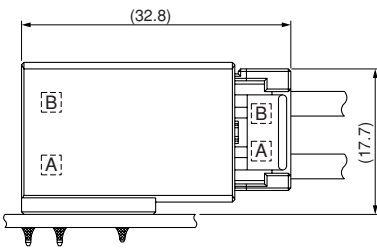
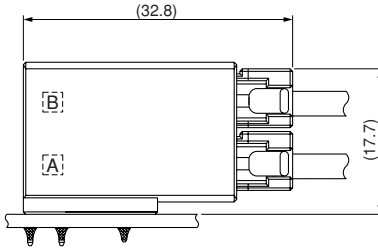
**RoHS compliance** This product displays (LF)(AU) on a label.

Note: 1. Contact JST about the headers supplied in magazine stick.

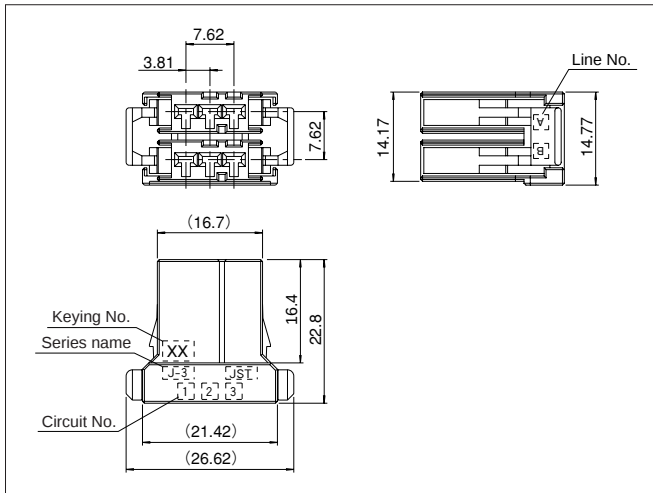
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

# J300 SERIES/J310M

## Assembly layout

|               |                 | When mating with J310M receptacle                                                  | When mating with J310S receptacle modular                                            |
|---------------|-----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Wire-to-board | Top entry type  |   |   |
|               | Side entry type |  |  |

## Receptacle housing



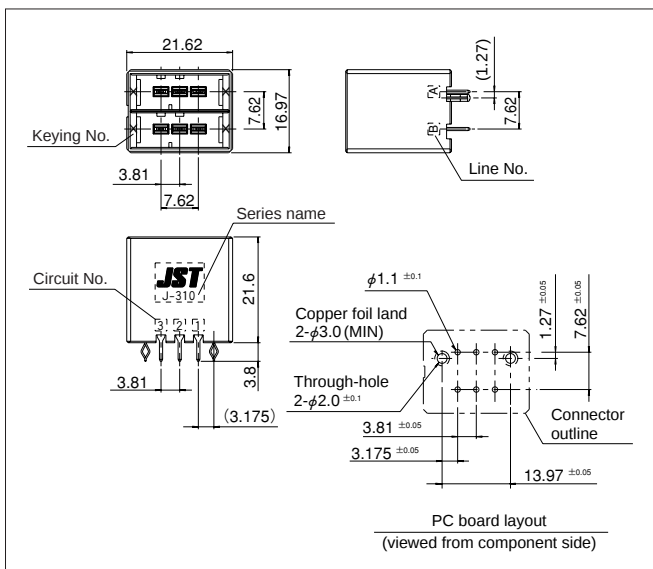
| Circuits | Keying | Model No.             | Q'ty/bag |
|----------|--------|-----------------------|----------|
| 6        | XX     | <b>F31FMS-06V-KXX</b> | 100      |
|          | YY     | <b>F31FMS-06V-KYY</b> | 100      |
|          | XY     | <b>F31FMS-06V-KXY</b> | 100      |

### Material

Glass-filled PBT, UL94V-0, black

### RoHS compliance

## Header (Top entry type)



| Circuits | Keying | Model No.               | Q'ty/box |
|----------|--------|-------------------------|----------|
| 6        | XX     | <b>B06B-F31MK-GGXXR</b> | 132      |
|          | YY     | <b>B06B-F31MK-GGYR</b>  | 132      |
|          | XY     | <b>B06B-F31MK-GGXYR</b> | 132      |

### Material and Finish

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

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

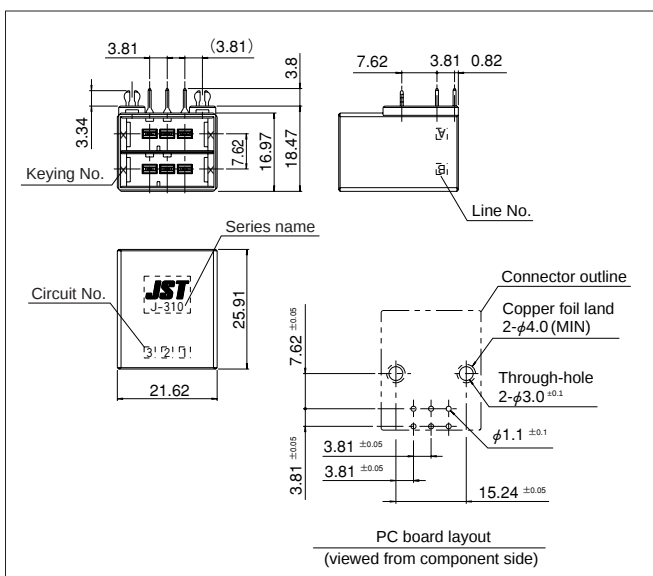
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

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

Note: 1. Contact JST about the headers supplied in magazine stick.

2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

## Header (Side entry type)



| Circuits | Keying | Model No.               | Q'ty/box |
|----------|--------|-------------------------|----------|
| 6        | XX     | <b>S06B-F31MK-GGXXR</b> | 88       |
|          | YY     | <b>S06B-F31MK-GGYR</b>  | 88       |
|          | XY     | <b>S06B-F31MK-GGXYR</b> | 88       |

### 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.

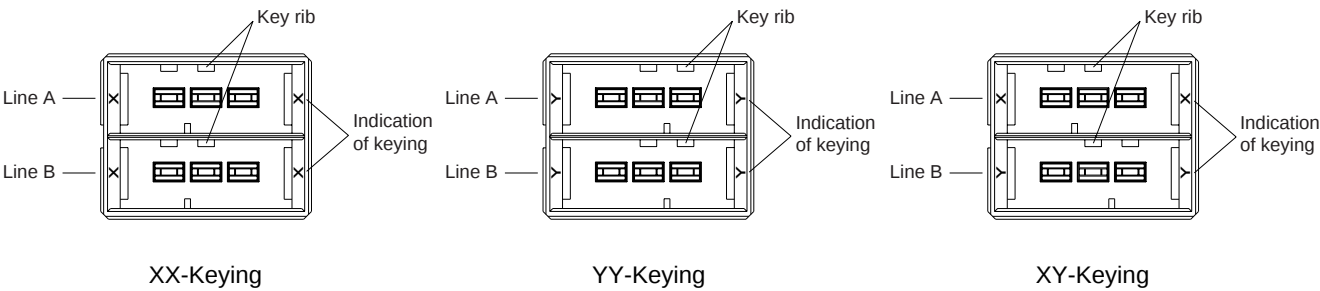
Note: 1. Contact JST about the headers supplied in magazine stick.

2. Contact JST about 0.76 μm gold-plated product and tin-plated product.

# J300 SERIES/J310M

## Keying

J310M series have mis-insertion preventive keying.  
Available in 3 types – XX-Keying, YY-Keying and XY-Keying.  
(Headers viewed from the mating side are shown below.)

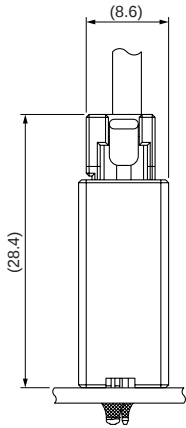
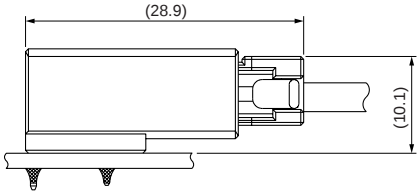
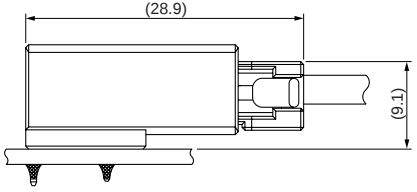
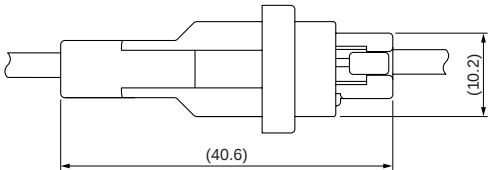
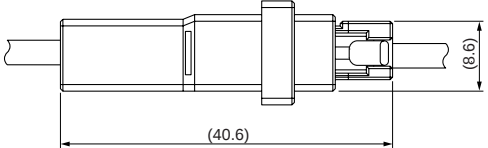


## List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

| Receptacle housing |                                    | Header         |                                      |                 |                                      |
|--------------------|------------------------------------|----------------|--------------------------------------|-----------------|--------------------------------------|
|                    |                                    | Top entry type |                                      | Side entry type |                                      |
|                    | <u>X-Keying</u><br>F31FSS-03V-KX   |                | <u>X-Keying</u><br>B03B-F31SK-GGXR   |                 | <u>X-Keying</u><br>S03B-F31SK-GGXR   |
|                    | <u>Y-Keying</u><br>F31FSS-03V-KY   |                | <u>Y-Keying</u><br>B03B-F31SK-GGYR   |                 | <u>Y-Keying</u><br>S03B-F31SK-GGYR   |
|                    | <u>XX-Keying</u><br>F31FMS-06V-KXX |                | <u>XX-Keying</u><br>B06B-F31MK-GGXXR |                 | <u>XX-Keying</u><br>S06B-F31MK-GGXXR |
|                    | <u>YY-Keying</u><br>F31FMS-06V-KYY |                | <u>YY-Keying</u><br>B06B-F31MK-GGYR  |                 | <u>YY-Keying</u><br>S06B-F31MK-GGYR  |
|                    | <u>XY-Keying</u><br>F31FMS-06V-KXY |                | <u>XY-Keying</u><br>B06B-F31MK-GGXYR |                 | <u>XY-Keying</u><br>S06B-F31MK-GGXYR |

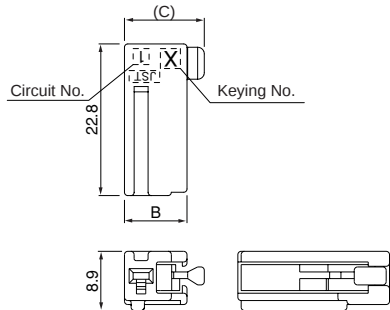
Assembly layout

|               |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wire-to-board | <p>&lt;Top entry type&gt;</p>  <p>Diagram showing the top entry type for wire-to-board assembly. The component is mounted on a board. Dimensions: (8.6) for the top width and (28.4) for the total height.</p>                                                                                                                 | <p>&lt;Side entry type&gt;</p> <ul style="list-style-type: none"><li>• Normal type</li></ul>  <p>Diagram showing the normal type side entry for wire-to-board assembly. Dimensions: (28.9) for the body length and (10.1) for the side entry height.</p> <ul style="list-style-type: none"><li>• Reverse type</li></ul>  <p>Diagram showing the reverse type side entry for wire-to-board assembly. Dimensions: (28.9) for the body length and (9.1) for the side entry height.</p> |
| Wire-to-wire  | <p>&lt;Free hanging type / Panel mounting type (Screw type, Housing lock type)&gt;</p> <ul style="list-style-type: none"><li>• Single circuit</li></ul>  <p>Diagram showing the single circuit free hanging type for wire-to-wire assembly. Dimensions: (40.6) for the body length and (10.2) for the side entry height.</p> | <ul style="list-style-type: none"><li>• 2 to 4 circuits</li></ul>  <p>Diagram showing the 2 to 4 circuits free hanging type for wire-to-wire assembly. Dimensions: (40.6) for the body length and (8.6) for the side entry height.</p>                                                                                                                                                                                                                                                                                                                               |

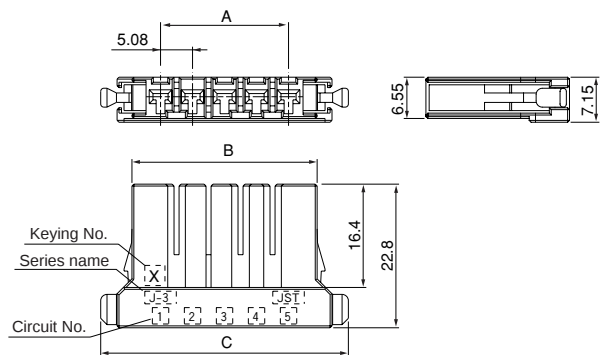
# J300 SERIES/J320S

## Receptacle housing

• Single circuit



• 2 to 6 circuits



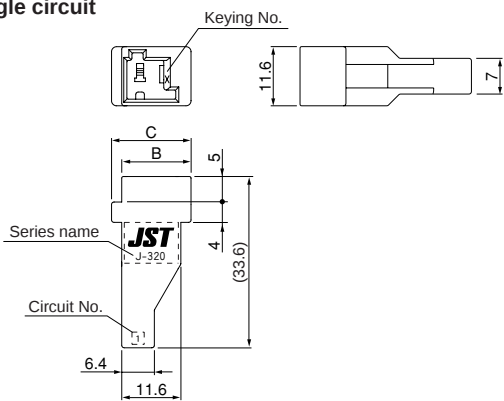
| Circuits | Keying | Model No.     | Dimensions (mm) |       |       | Q'ty/bag |
|----------|--------|---------------|-----------------|-------|-------|----------|
|          |        |               | A               | B     | C     |          |
| 1        | X      | F32FSS-01V-KX | —               | 9.40  | 12.00 | 200      |
|          | Y      | F32FSS-01V-KY | —               | 9.40  | 12.00 | 200      |
| 2        | X      | F32FSS-02V-KX | 5.08            | 14.16 | 24.08 | 200      |
|          | Y      | F32FSS-02V-KY | 5.08            | 14.16 | 24.08 | 200      |
| 3        | X      | F32FSS-03V-KX | 10.16           | 19.24 | 29.16 | 200      |
|          | Y      | F32FSS-03V-KY | 10.16           | 19.24 | 29.16 | 200      |
| 4        | X      | F32FSS-04V-KX | 15.24           | 24.32 | 34.24 | 200      |
|          | Y      | F32FSS-04V-KY | 15.24           | 24.32 | 34.24 | 200      |
| 5        | X      | F32FSS-05V-KX | 20.32           | 29.40 | 39.32 | 200      |
|          | Y      | F32FSS-05V-KY | 20.32           | 29.40 | 39.32 | 200      |
| 6        | X      | F32FSS-06V-KX | 25.40           | 34.48 | 44.40 | 100      |
|          | Y      | F32FSS-06V-KY | 25.40           | 34.48 | 44.40 | 100      |
| Material |        |               |                 |       |       |          |

Glass-filled PBT, UL94V-0, black

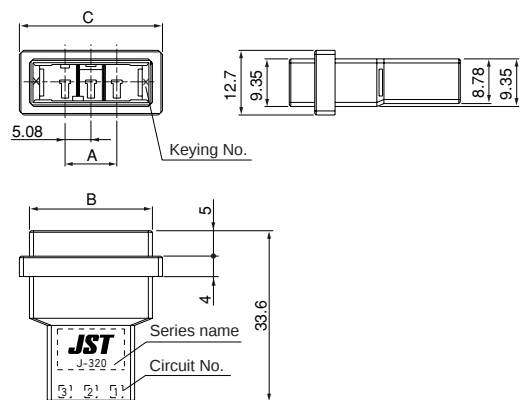
RoHS compliance

## Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



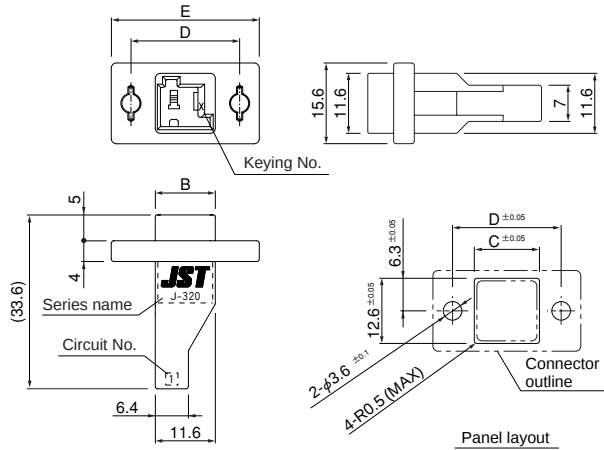
| Circuits | Keying | Model No.     | Dimensions (mm) |       |       | Q'ty/bag |
|----------|--------|---------------|-----------------|-------|-------|----------|
|          |        |               | A               | B     | C     |          |
| 1        | X      | F32MSF-01V-KX | —               | 13.60 | 15.60 | 150      |
|          | Y      | F32MSF-01V-KY | —               | 13.60 | 15.60 | 150      |
| 2        | X      | F32MSF-02V-KX | 5.08            | 19.08 | 23.03 | 200      |
|          | Y      | F32MSF-02V-KY | 5.08            | 19.08 | 23.03 | 200      |
| 3        | X      | F32MSF-03V-KX | 10.16           | 24.16 | 28.11 | 200      |
|          | Y      | F32MSF-03V-KY | 10.16           | 24.16 | 28.11 | 200      |
| 4        | X      | F32MSF-04V-KX | 15.24           | 29.24 | 33.19 | 200      |
|          | Y      | F32MSF-04V-KY | 15.24           | 29.24 | 33.19 | 200      |
| Material |        |               |                 |       |       |          |

Glass-filled PBT, UL94V-0, black

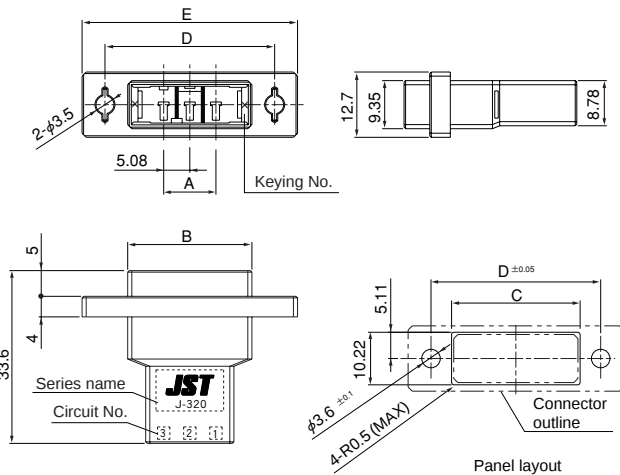
RoHS compliance

## Tab housing (Panel mounting type)

### • Single circuit



### • 2 to 4 circuits



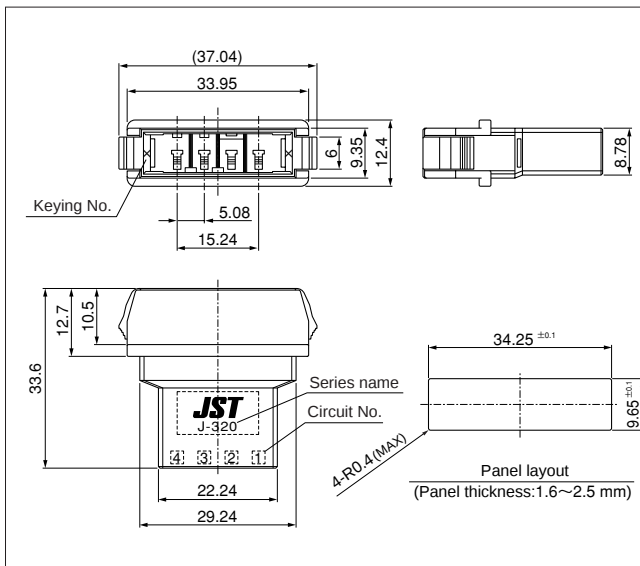
| Circuits | Keying | Model No.     | Dimensions (mm) |       |       |       |       | Q'ty /bag |
|----------|--------|---------------|-----------------|-------|-------|-------|-------|-----------|
|          |        |               | A               | B     | C     | D     | E     |           |
| 1        | X      | F32MSP-01V-KX | —               | 11.60 | 12.60 | 21.00 | 28.60 | 150       |
|          | Y      | F32MSP-01V-KY | —               | 11.60 | 12.60 | 21.00 | 28.60 | 150       |
| 2        | X      | F32MSP-02V-KX | 5.08            | 19.08 | 20.00 | 28.00 | 36.83 | 200       |
|          | Y      | F32MSP-02V-KY | 5.08            | 19.08 | 20.00 | 28.00 | 36.83 | 200       |
| 3        | X      | F32MSP-03V-KX | 10.16           | 24.16 | 25.00 | 33.00 | 41.91 | 200       |
|          | Y      | F32MSP-03V-KY | 10.16           | 24.16 | 25.00 | 33.00 | 41.91 | 200       |
| 4        | X      | F32MSP-04V-KX | 15.24           | 29.24 | 30.00 | 38.00 | 46.99 | 200       |
|          | Y      | F32MSP-04V-KY | 15.24           | 29.24 | 30.00 | 38.00 | 46.99 | 200       |

#### Material

Glass-filled PBT, UL94V-0, black

#### RoHS compliance

## Tab housing (Panel mounting type Housing lock type)



| Circuits | Keying | Model No.      | Q'ty/bag |
|----------|--------|----------------|----------|
| 4        | X      | F32MSPL-04V-KX | 90       |
| Material |        |                |          |

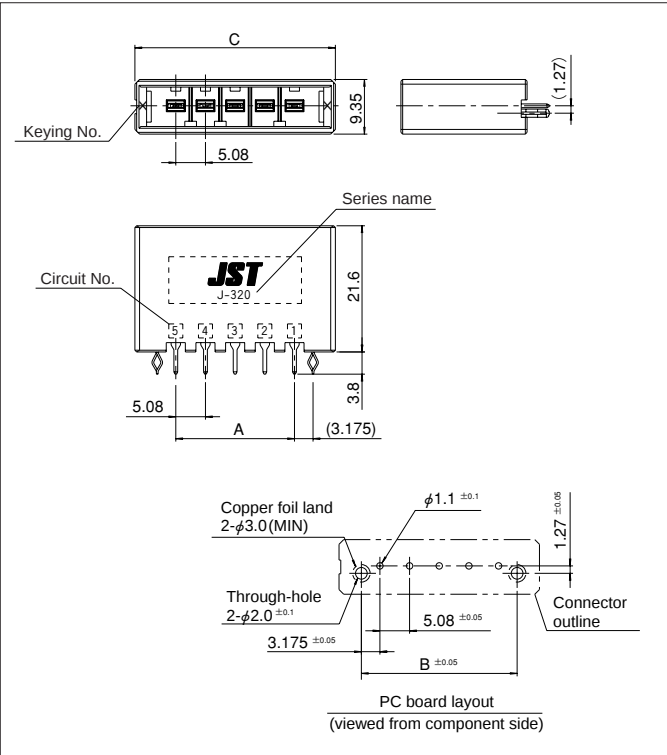
Glass-filled PBT, UL94V-0, black

#### RoHS compliance

Note: Not CSA/UL/TÜV approved.

# J300 SERIES/J320S

## Header (Top entry type)

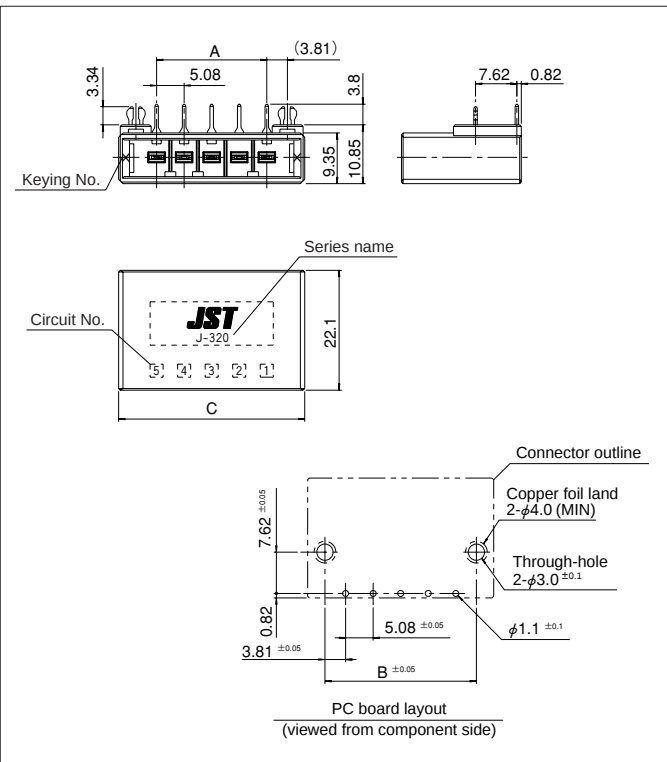


| Circuits | Keying | Model No.       | Dimensions (mm) |       |       | Q'ty/box |
|----------|--------|-----------------|-----------------|-------|-------|----------|
|          |        |                 | A               | B     | C     |          |
| 2        | X      | B02B-F32SK-GGXR | 5.08            | 11.43 | 19.08 | 240      |
|          | Y      | B02B-F32SK-GGYR | 5.08            | 11.43 | 19.08 | 240      |
| 3        | X      | B03B-F32SK-GGXR | 10.16           | 16.51 | 24.16 | 200      |
|          | Y      | B03B-F32SK-GGYR | 10.16           | 16.51 | 24.16 | 200      |
| 4        | X      | B04B-F32SK-GGXR | 15.24           | 21.59 | 29.24 | 160      |
|          | Y      | B04B-F32SK-GGYR | 15.24           | 21.59 | 29.24 | 160      |
| 5        | X      | B05B-F32SK-GGXR | 20.32           | 26.67 | 34.32 | 140      |
|          | Y      | B05B-F32SK-GGYR | 20.32           | 26.67 | 34.32 | 140      |
| 6        | X      | B06B-F32SK-GGXR | 25.40           | 31.75 | 39.40 | 120      |
|          | Y      | B06B-F32SK-GGYR | 25.40           | 31.75 | 39.40 | 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.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

## Header (Side entry type)

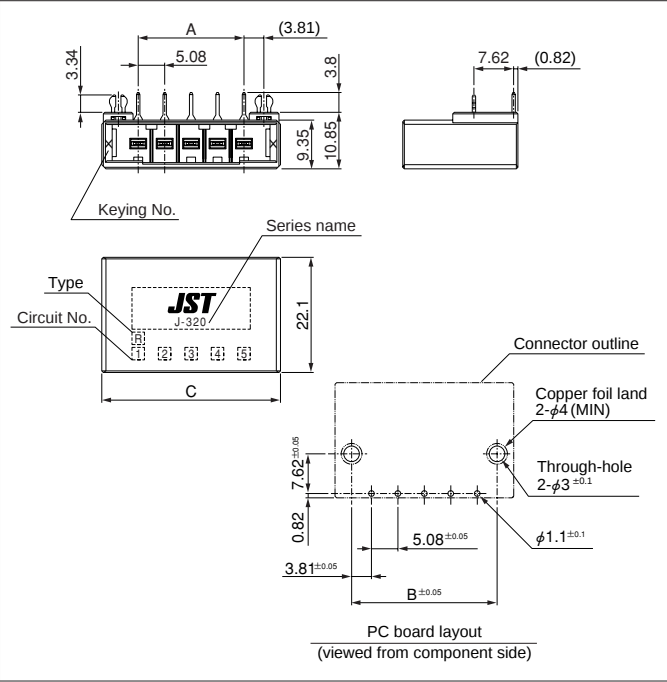


| Circuits | Keying | Model No.       | Dimensions (mm) |       |       | Q'ty/box |
|----------|--------|-----------------|-----------------|-------|-------|----------|
|          |        |                 | A               | B     | C     |          |
| 2        | X      | S02B-F32SK-GGXR | 5.08            | 12.70 | 19.08 | 180      |
|          | Y      | S02B-F32SK-GGYR | 5.08            | 12.70 | 19.08 | 180      |
| 3        | X      | S03B-F32SK-GGXR | 10.16           | 17.78 | 24.16 | 150      |
|          | Y      | S03B-F32SK-GGYR | 10.16           | 17.78 | 24.16 | 150      |
| 4        | X      | S04B-F32SK-GGXR | 15.24           | 22.86 | 29.24 | 120      |
|          | Y      | S04B-F32SK-GGYR | 15.24           | 22.86 | 29.24 | 120      |
| 5        | X      | S05B-F32SK-GGXR | 20.32           | 27.94 | 34.32 | 105      |
|          | Y      | S05B-F32SK-GGYR | 20.32           | 27.94 | 34.32 | 105      |
| 6        | X      | S06B-F32SK-GGXR | 25.40           | 33.02 | 39.40 | 90       |
|          | Y      | S06B-F32SK-GGYR | 25.40           | 33.02 | 39.40 | 90       |

| 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.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

Header (Side entry type Reverse type)



| Circuits | Keying | Model No.        | Dimensions (mm) |       |       | Q'ty /box |
|----------|--------|------------------|-----------------|-------|-------|-----------|
|          |        |                  | A               | B     | C     |           |
| 5        | X      | SR05B-F32SK-GGXR | 20.32           | 27.94 | 34.32 | 105       |
| 6        | X      | SR06B-F32SK-GGXR | 25.40           | 33.02 | 39.40 | 90        |

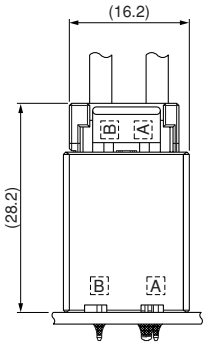
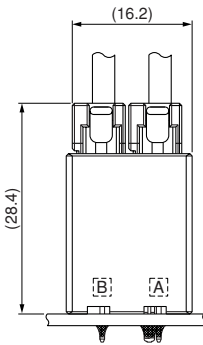
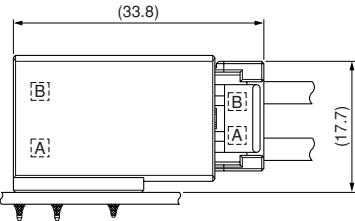
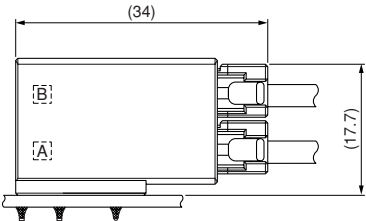
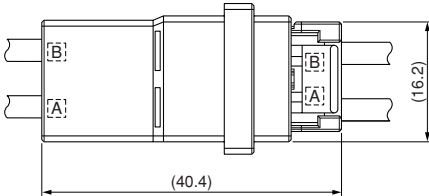
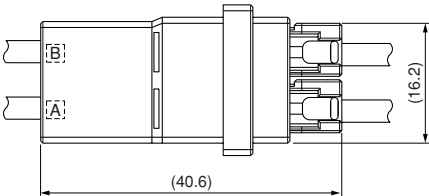
Material and Finish

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.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76 μm gold-plated product and tin-plated product.  
3. Not TÜV approved.

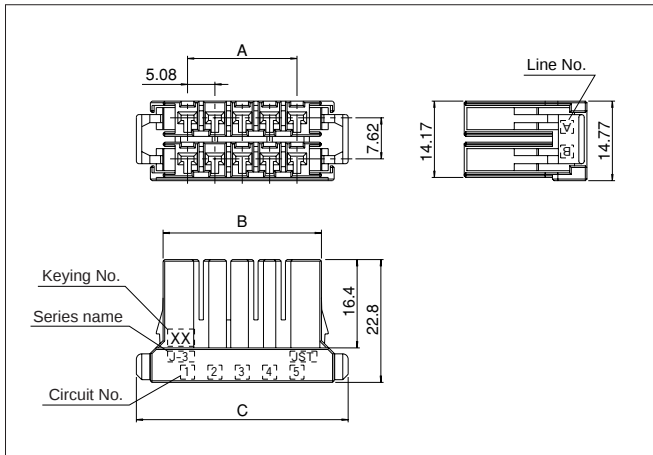
# J300 SERIES/J320M

## Assembly layout

|               |                                         | When mating with J320M receptacle                                                   | When mating with J320S receptacle modular                                            |
|---------------|-----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Wire-to-board | Top entry type                          |    |   |
|               | Side entry type                         |   |  |
| Wire-to-wire  | Free hanging type / Panel mounting type |  |  |

# J300 SERIES/J320M

## Receptacle housing



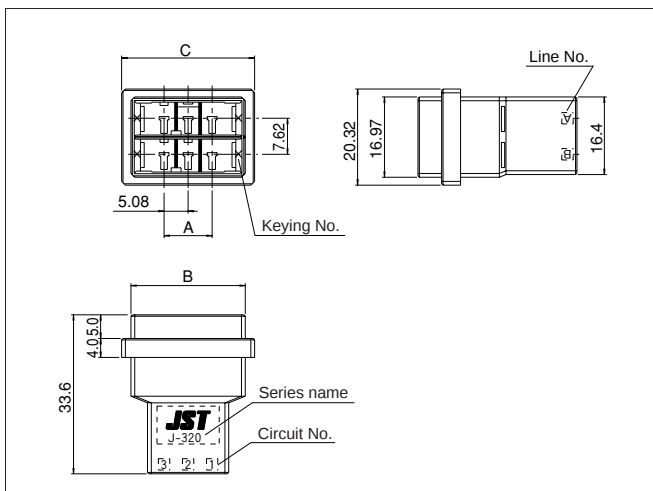
| Circuits | Keying | Model No.      | Dimensions (mm) |       |       | Q'ty /bag |
|----------|--------|----------------|-----------------|-------|-------|-----------|
|          |        |                | A               | B     | C     |           |
| 6        | XX     | F32FMS-06V-KXX | 10.16           | 19.24 | 29.16 | 100       |
|          | YY     | F32FMS-06V-KYY | 10.16           | 19.24 | 29.16 | 100       |
|          | XY     | F32FMS-06V-KXY | 10.16           | 19.24 | 29.16 | 100       |
| 10       | XX     | F32FMS-10V-KXX | 20.32           | 29.40 | 39.32 | 100       |
|          | YY     | F32FMS-10V-KYY | 20.32           | 29.40 | 39.32 | 100       |
|          | XY     | F32FMS-10V-KXY | 20.32           | 29.40 | 39.32 | 100       |
| 12       | XX     | F32FMS-12V-KXX | 25.40           | 34.48 | 44.40 | 100       |
|          | YY     | F32FMS-12V-KYY | 25.40           | 34.48 | 44.40 | 100       |
|          | XY     | F32FMS-12V-KXY | 25.40           | 34.48 | 44.40 | 100       |
| 20       | XX     | F32FMS-20V-KXX | 45.72           | 54.80 | 64.72 | 84(box)   |

### Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

## Tab housing (Free hanging type)



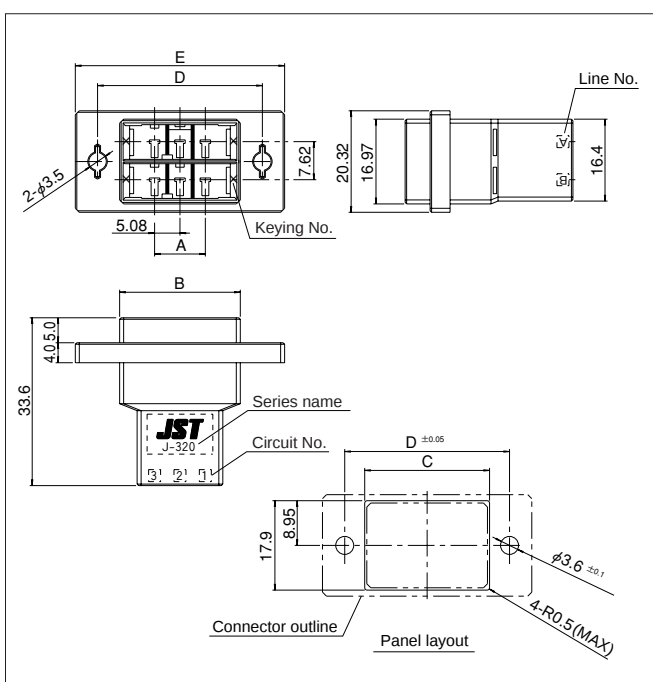
| Circuits | Keying | Model No.      | Dimensions (mm) |       |       | Q'ty /bag |
|----------|--------|----------------|-----------------|-------|-------|-----------|
|          |        |                | A               | B     | C     |           |
| 6        | XX     | F32MDF-06V-KXX | 10.16           | 24.16 | 28.11 | 100       |
|          | YY     | F32MDF-06V-KYY | 10.16           | 24.16 | 28.11 | 100       |
|          | XY     | F32MDF-06V-KXY | 10.16           | 24.16 | 28.11 | 100       |
| 12       | XX     | F32MDF-12V-KXX | 25.40           | 39.40 | 43.35 | 100       |
|          | YY     | F32MDF-12V-KYY | 25.40           | 39.40 | 43.35 | 100       |
|          | XY     | F32MDF-12V-KXY | 25.40           | 39.40 | 43.35 | 100       |

### Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

## Tab housing (Panel mounting type)



| Circuits | Keying | Model No.      | Dimensions (mm) |       |       |       |       | Q'ty /bag |
|----------|--------|----------------|-----------------|-------|-------|-------|-------|-----------|
|          |        |                | A               | B     | C     | D     | E     |           |
| 6        | XX     | F32MDP-06V-KXX | 10.16           | 24.16 | 25.00 | 33.00 | 41.91 | 100       |
|          | YY     | F32MDP-06V-KYY | 10.16           | 24.16 | 25.00 | 33.00 | 41.91 | 100       |
|          | XY     | F32MDP-06V-KXY | 10.16           | 24.16 | 25.00 | 33.00 | 41.91 | 100       |
| 12       | XX     | F32MDP-12V-KXX | 25.40           | 39.40 | 41.00 | 49.00 | 57.91 | 100       |
|          | YY     | F32MDP-12V-KYY | 25.40           | 39.40 | 41.00 | 49.00 | 57.91 | 100       |
|          | XY     | F32MDP-12V-KXY | 25.40           | 39.40 | 41.00 | 49.00 | 57.91 | 100       |
| 20       | XX     | F32MDP-20V-KXX | 45.72           | 59.72 | 61.00 | 70.00 | 78.23 | 42(box)   |

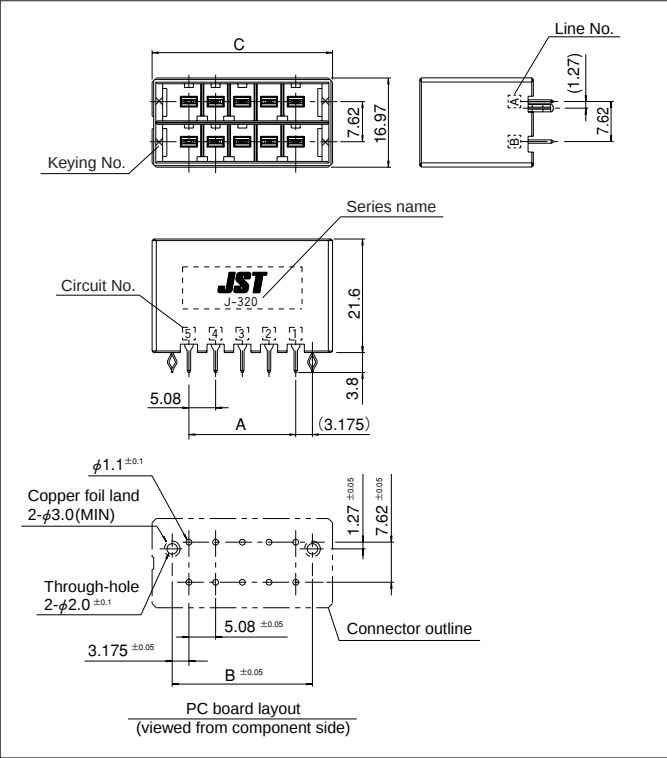
### Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

# J300 SERIES/J320M

## Header (Top entry type)



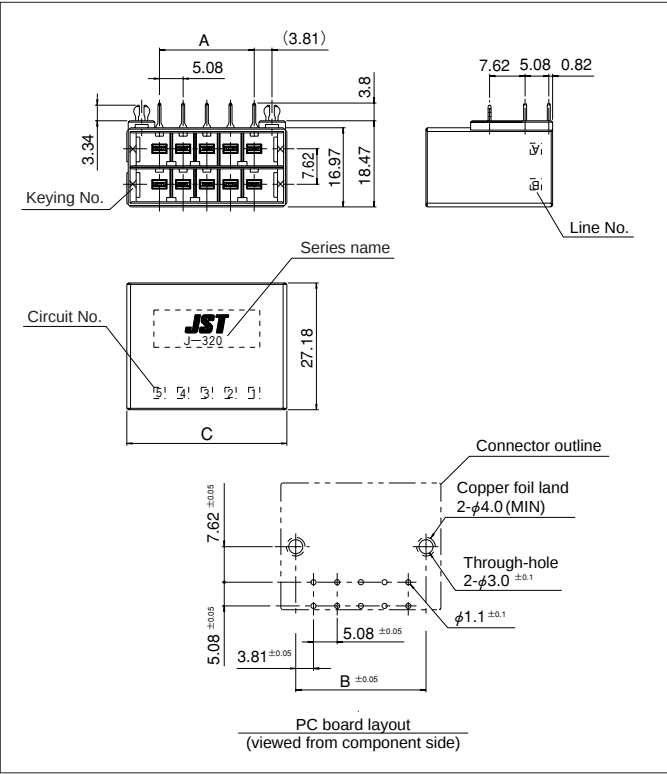
| Circuits | Keying | Model No.         | Dimensions (mm) |       |       | Q'ty /box |
|----------|--------|-------------------|-----------------|-------|-------|-----------|
|          |        |                   | A               | B     | C     |           |
| 6        | XX     | B06B-F32MK-GGXXR  | 10.16           | 16.51 | 24.16 | 120       |
|          | YY     | B06B-F32MK-GGYR   | 10.16           | 16.51 | 24.16 | 120       |
|          | XY     | B06B-F32MK-GGXRYR | 10.16           | 16.51 | 24.16 | 120       |
| 10       | XX     | B10B-F32MK-GGXXR  | 20.32           | 26.67 | 34.32 | 84        |
|          | YY     | B10B-F32MK-GGYR   | 20.32           | 26.67 | 34.32 | 84        |
|          | XY     | B10B-F32MK-GGXRYR | 20.32           | 26.67 | 34.32 | 84        |
| 12       | XX     | B12B-F32MK-GGXXR  | 25.40           | 31.75 | 39.40 | 72        |
|          | YY     | B12B-F32MK-GGYR   | 25.40           | 31.75 | 39.40 | 72        |
|          | XY     | B12B-F32MK-GGXRYR | 25.40           | 31.75 | 39.40 | 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.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

## Header (Side entry type)



| Circuits | Keying | Model No.         | Dimensions (mm) |       |       | Q'ty /box |
|----------|--------|-------------------|-----------------|-------|-------|-----------|
|          |        |                   | A               | B     | C     |           |
| 6        | XX     | S06B-F32MK-GGXXR  | 10.16           | 17.78 | 24.16 | 80        |
|          | YY     | S06B-F32MK-GGYR   | 10.16           | 17.78 | 24.16 | 80        |
|          | XY     | S06B-F32MK-GGXRYR | 10.16           | 17.78 | 24.16 | 80        |
| 8        | XY     | S08B-F32MK-GGXRYR | 15.24           | 22.86 | 29.24 | 64        |
| 10       | XX     | S10B-F32MK-GGXXR  | 20.32           | 27.94 | 34.32 | 56        |
|          | YY     | S10B-F32MK-GGYR   | 20.32           | 27.94 | 34.32 | 56        |
|          | XY     | S10B-F32MK-GGXRYR | 20.32           | 27.94 | 34.32 | 56        |
| 12       | XX     | S12B-F32MK-GGXXR  | 25.40           | 33.02 | 39.40 | 48        |
|          | YY     | S12B-F32MK-GGYR   | 25.40           | 33.02 | 39.40 | 48        |
|          | XY     | S12B-F32MK-GGXRYR | 25.40           | 33.02 | 39.40 | 48        |

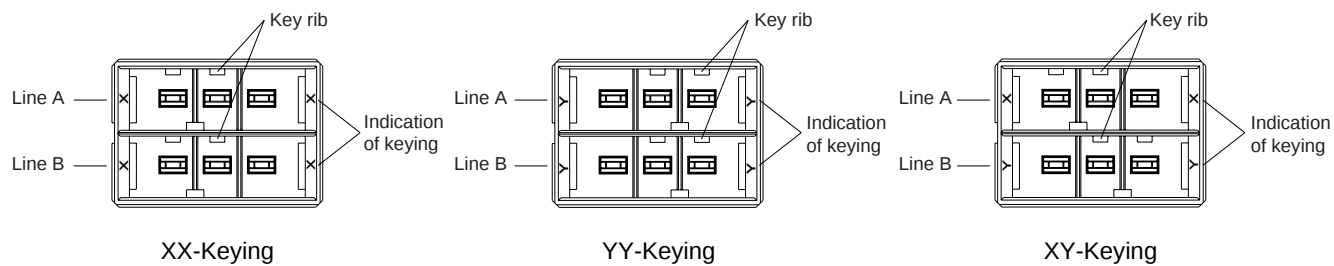
### Material and Finish

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** This product displays (LF)(AU) on a label.  
Note: 1. Contact JST about the headers supplied in magazine stick.  
2. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

Keying

J320M series have mis-insertion preventive keying.  
Available in 3 types – XX-Keying, YY-Keying and XY-Keying.  
(Headers viewed from the mating side are shown below.)



List of combinations

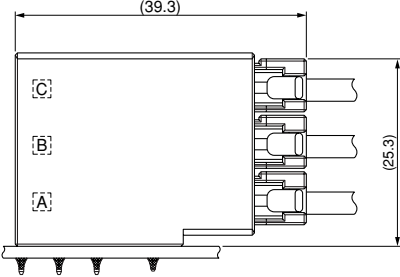
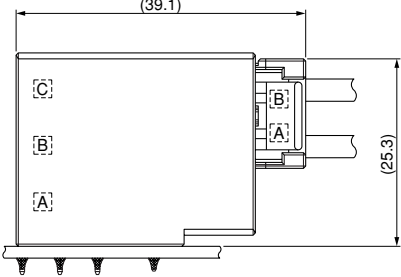
With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

| Receptacle housing                                            |                                               | Tab housing                                            |                                                                                                               | Header                                                    |                                                                                                            |
|---------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <div>Single-row<br/>3, 4, 5, 6<br/>circuits<br/>(J320S)</div> | <div>X-Keying</div> <div>F32FSS-■V-KX</div>   | <div>Single-row<br/>3, 4 circuits<br/>(J320S)</div>    | <div>X-Keying</div> <div>Free hanging type<br/>F32MSF-■V-KX<br/>Panel mounting type<br/>F32MSP-■V-KX</div>    | <div>Single-row<br/>3, 4, 5, 6 circuits<br/>(J320S)</div> | <div>X-Keying</div> <div>Top entry type<br/>B■B-F32SK-GGXR<br/>Side entry type<br/>S■B-F32SK-GGXR</div>    |
|                                                               | <div>Y-Keying</div> <div>F32FSS-■V-KY</div>   |                                                        | <div>Y-Keying</div> <div>Free hanging type<br/>F32MSF-■V-KY<br/>Panel mounting type<br/>F32MSP-■V-KY</div>    |                                                           | <div>Y-Keying</div> <div>Top entry type<br/>B■B-F32SK-GGYR<br/>Side entry type<br/>S■B-F32SK-GGYR</div>    |
| <div>Double-row<br/>6,10,12,20<br/>circuits<br/>(J320M)</div> | <div>XX-Keying</div> <div>F32FMS-■V-KXX</div> | <div>Double-row<br/>6,12,20 circuits<br/>(J320M)</div> | <div>XX-Keying</div> <div>Free hanging type<br/>F32MDF-■V-KXX<br/>Panel mounting type<br/>F32MDP-■V-KXX</div> | <div>Double-row<br/>6, 8,10,12 circuits<br/>(J320M)</div> | <div>XX-Keying</div> <div>Top entry type<br/>B■B-F32MK-GGXXR<br/>Side entry type<br/>S■B-F32MK-GGXXR</div> |
|                                                               | <div>YY-Keying</div> <div>F32FMS-■V-KYY</div> |                                                        | <div>YY-Keying</div> <div>Free hanging type<br/>F32MDF-■V-KYY<br/>Panel mounting type<br/>F32MDP-■V-KYY</div> |                                                           | <div>YY-Keying</div> <div>Top entry type<br/>B■B-F32MK-GGYR<br/>Side entry type<br/>S■B-F32MK-GGYR</div>   |
|                                                               | <div>XY-Keying</div> <div>F32FMS-■V-KXY</div> |                                                        | <div>XY-Keying</div> <div>Free hanging type<br/>F32MDF-■V-KXY<br/>Panel mounting type<br/>F32MDP-■V-KXY</div> |                                                           | <div>XY-Keying</div> <div>Top entry type<br/>B■B-F32MK-GGXYR<br/>Side entry type<br/>S■B-F32MK-GGXYR</div> |

Note: Number of circuits is indicated in ■■.

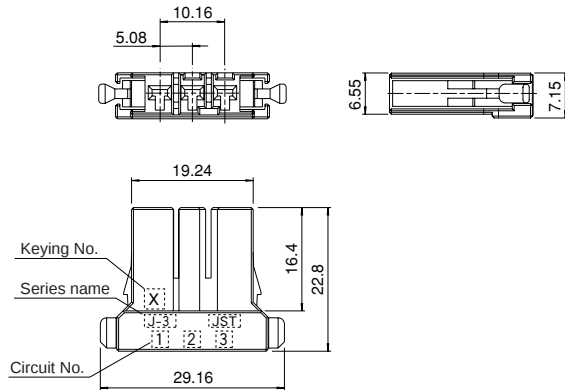
# J300 SERIES/J320T

## Assembly layout

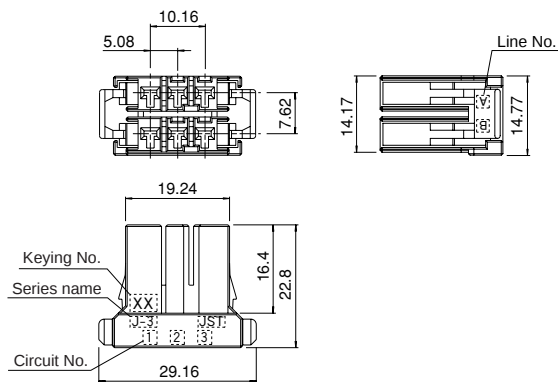
|               |                 | When mating with J320S receptacle                                                 | When mating with J320M receptacle modular                                           |
|---------------|-----------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Wire-to-board | Side entry type |  |  |

## Receptacle housing

### Single-row type • 3 circuits



### Double-row type • 6 circuits



| Circuits | Keying | Model No.      | Q'ty/bag |
|----------|--------|----------------|----------|
| 3        | X      | F32FSS-03V-KXX | 200      |
|          | Y      | F32FSS-03V-KY  | 200      |

#### Material

Glass-filled PBT, UL94V-0, black

#### RoHS compliance

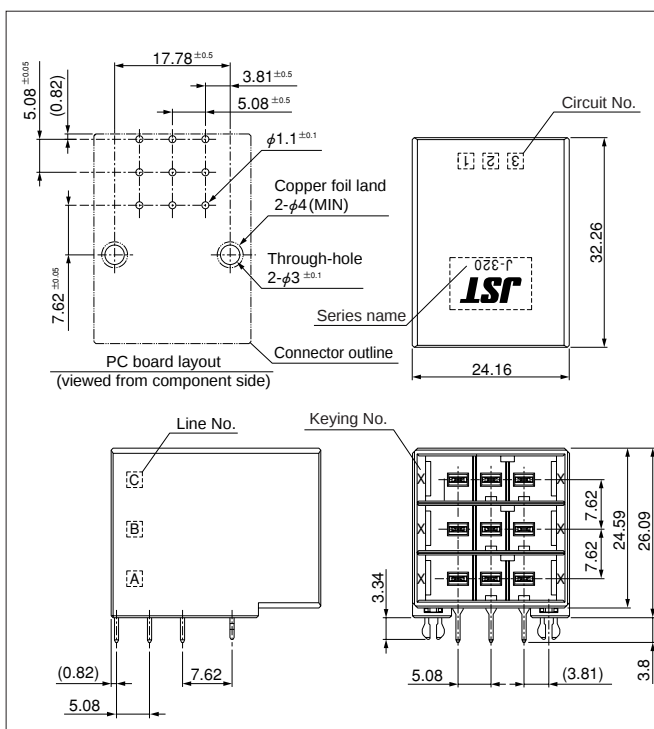
| Circuits | Keying | Model No.      | Q'ty/bag |
|----------|--------|----------------|----------|
| 6        | XX     | F32FMS-06V-KXX | 100      |
|          | YY     | F32FMS-06V-KYY | 100      |
|          | XY     | F32FMS-06V-KXY | 100      |

#### Material

Glass-filled PBT, UL94V-0, black

#### RoHS compliance

## Header (Side entry type)



| Circuits | Keying | Model No.        | Q'ty/box |
|----------|--------|------------------|----------|
| 9        | XXX    | S09B-F32TK-GGXAR | 42       |
|          | XXY    | S09B-F32TK-GGXBR | 42       |
|          | XYX    | S09B-F32TK-GGXCR | 42       |
|          | YYX    | S09B-F32TK-GGXDR | 42       |

#### 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

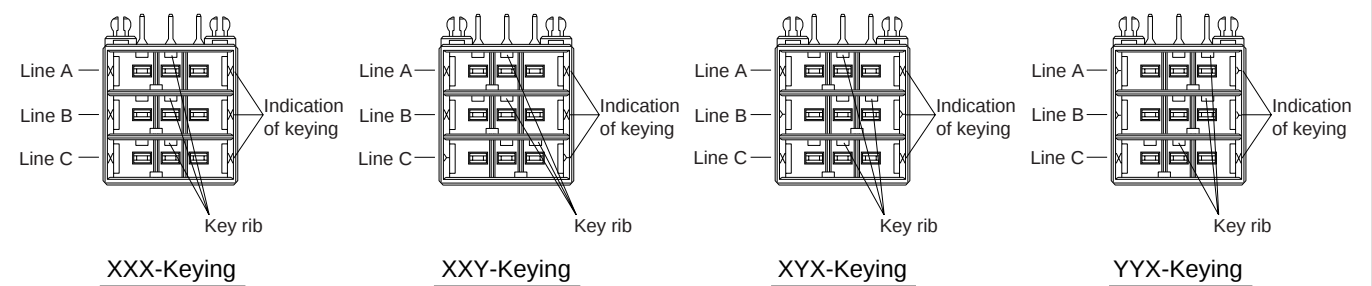
#### RoHS compliance

This product displays (LF)(AU) on a label.  
Note: Contact JST about 0.76 μm gold-plated product and tin-plated product.

# J300 SERIES/J320T

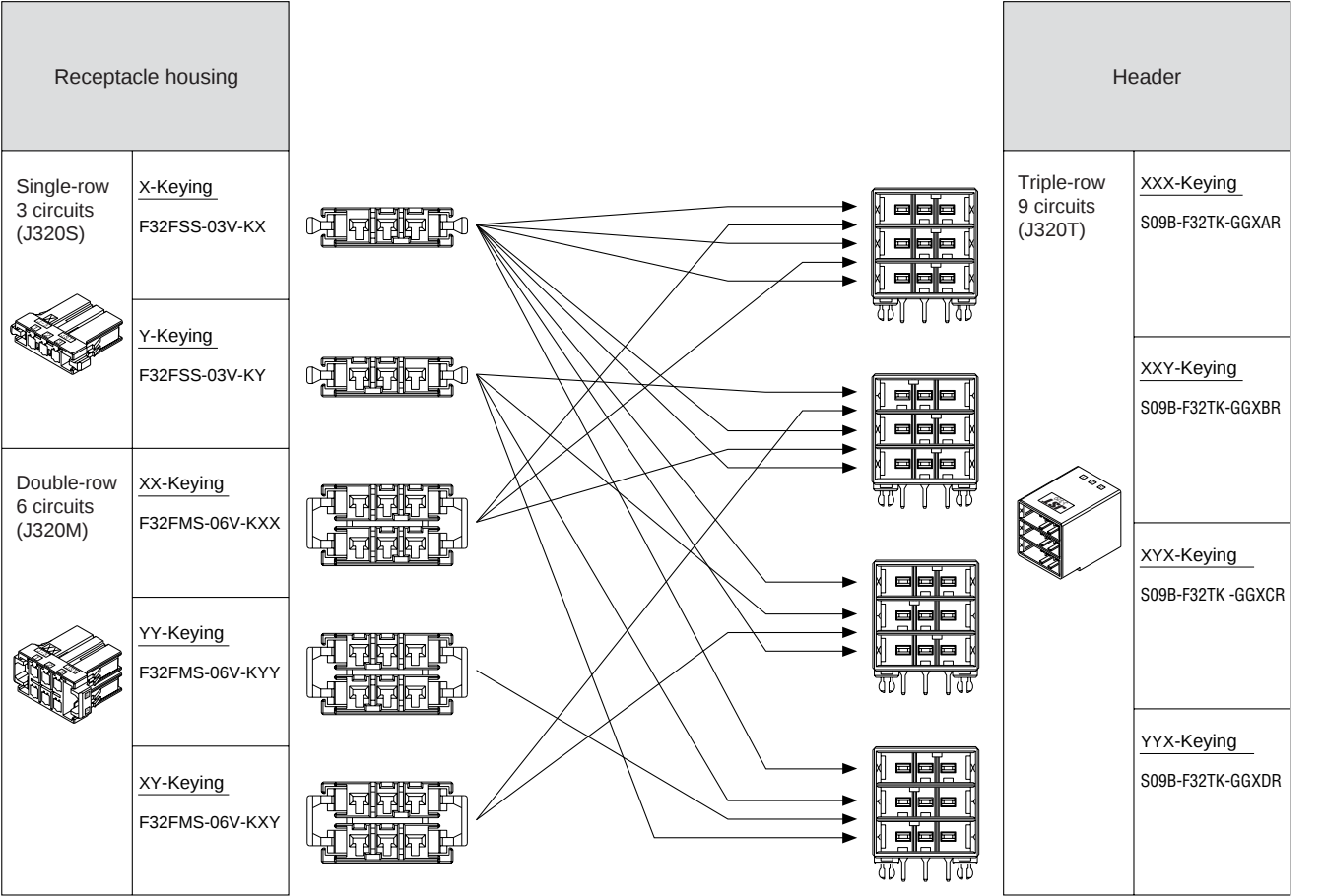
## Keying

J320T series have mis-insertion preventive keying.  
Available in 4 types – XXX-Keying, XXY-Keying, XYX-Keying and YYX-Keying.  
(Headers viewed from the mating side are shown below.)

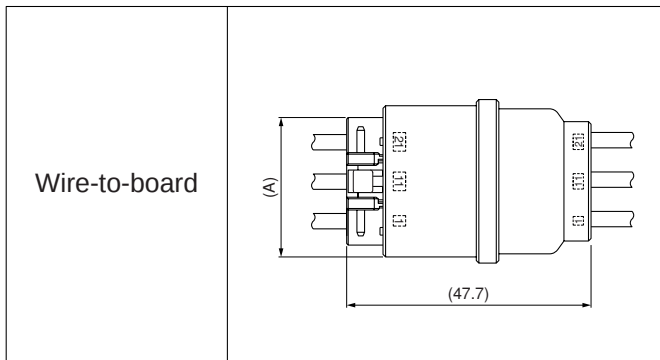


## List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.



## Assembly layout



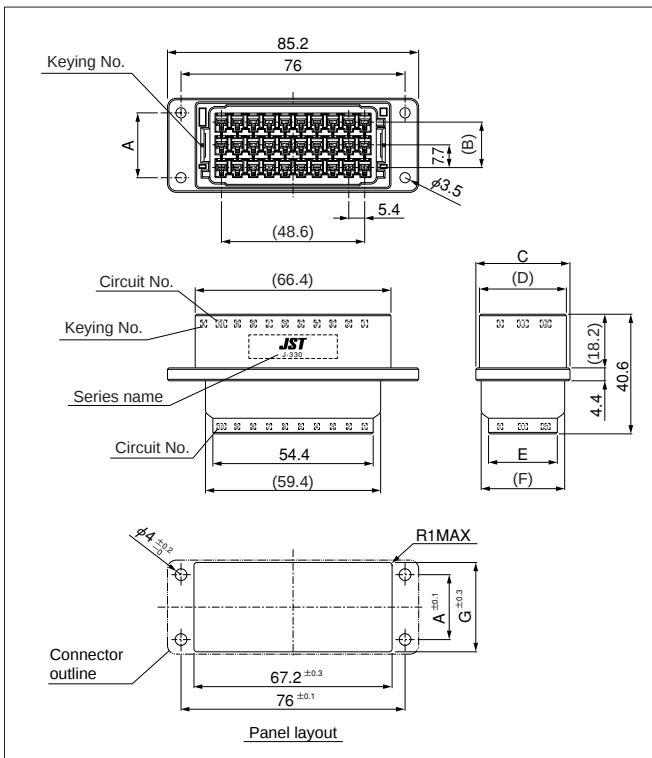
## Specifications

- Current rating: (AC, DC)

Unit: A

| Circuits | Wire size (AWG) |     | Dimensions (mm) |
|----------|-----------------|-----|-----------------|
|          | #14             | #16 | A               |
| 30       | 5.0             | 5.0 | 27.2            |
| 40       | 5.0             | 5.0 | 34.9            |

## Receptacle housing (Reverse type Panel mounting type)



| Circuits | Keying | Model No.       | Dimensions (mm) |      |      |      |      |      |      | Q'ty /box |
|----------|--------|-----------------|-----------------|------|------|------|------|------|------|-----------|
|          |        |                 | A               | B    | C    | D    | E    | F    | G    |           |
| 30       | X      | F33FRTPA-30V-KX | 22.0            | 15.4 | 31.9 | 29.5 | 23.3 | 28.3 | 30.3 | 56        |
|          | Y      | F33FRTPA-30V-SY | 22.0            | 15.4 | 31.9 | 29.5 | 23.3 | 28.3 | 30.3 | 56        |
|          | Z      | F33FRTPA-30V-EZ | 22.0            | 15.4 | 31.9 | 29.5 | 23.3 | 28.3 | 30.3 | 56        |
| 40       | X      | F33FRFPA-40V-KX | 29.7            | 23.1 | 39.6 | 37.2 | 31.0 | 36.0 | 38.0 | 12        |
|          | Y      | F33FRFPA-40V-SY | 29.7            | 23.1 | 39.6 | 37.2 | 31.0 | 36.0 | 38.0 | 12        |
|          | Z      | F33FRFPA-40V-EZ | 29.7            | 23.1 | 39.6 | 37.2 | 31.0 | 36.0 | 38.0 | 12        |
|          | W      | F33FRFPA-40V-MW | 29.7            | 23.1 | 39.6 | 37.2 | 31.0 | 36.0 | 38.0 | 12        |

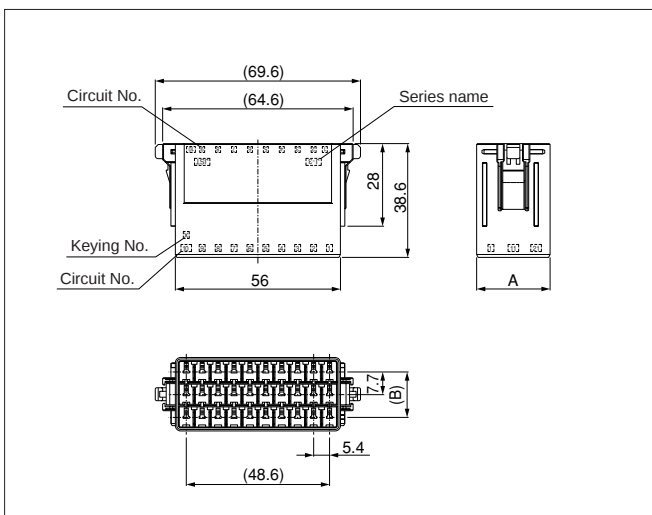
### Material

Glass-filled PBT, UL94V-0, X-Keying (black), Y-Keying (white), Z-Keying (blue), W-Keying (green)

### RoHS compliance

Note: Not CSA/UL/TÜV approved.

## Tab housing (Reverse type)



| Circuits | Keying | Model No.      | Dimensions (mm) |      | Q'ty /box |
|----------|--------|----------------|-----------------|------|-----------|
|          |        |                | A               | B    |           |
| 30       | X      | F33MRTS-30V-KX | 24.9            | 15.4 | 64        |
|          | Y      | F33MRTS-30V-SY | 24.9            | 15.4 | 64        |
|          | Z      | F33MRTS-30V-EZ | 24.9            | 15.4 | 64        |
| 40       | X      | F33MRFS-40V-KX | 32.6            | 23.1 | 64        |
|          | Y      | F33MRFS-40V-SY | 32.6            | 23.1 | 64        |
|          | Z      | F33MRFS-40V-EZ | 32.6            | 23.1 | 64        |
|          | W      | F33MRFS-40V-MW | 32.6            | 23.1 | 64        |

### Material

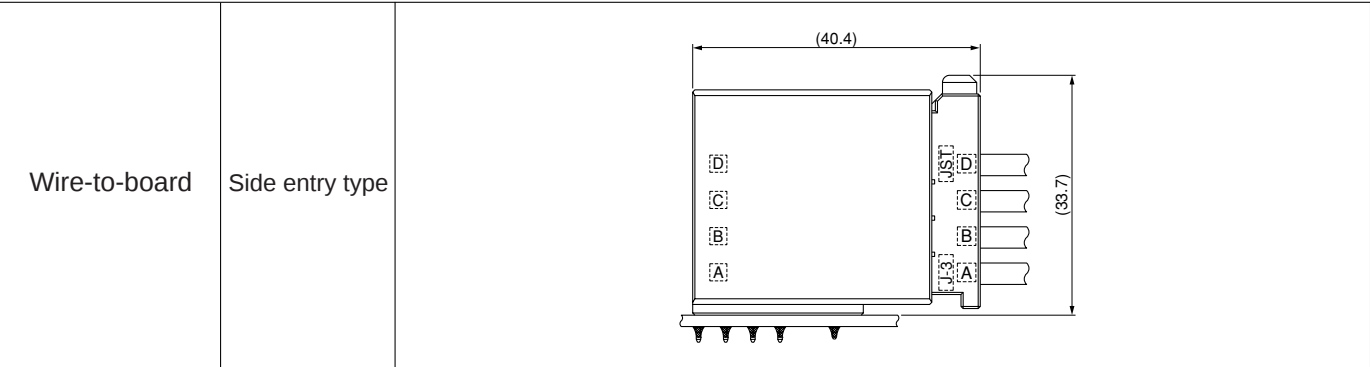
Glass-filled PBT, UL94V-0, X-Keying (black), Y-Keying (white), Z-Keying (blue), W-Keying (green)

### RoHS compliance

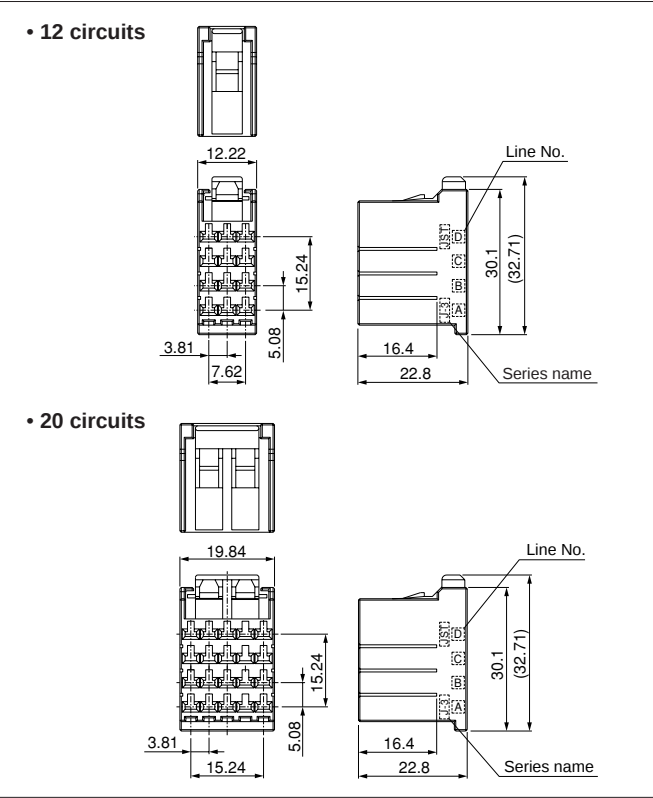
Note: Not CSA/UL/TÜV approved.

# J300 SERIES/J340F

## Assembly layout



## Receptacle housing



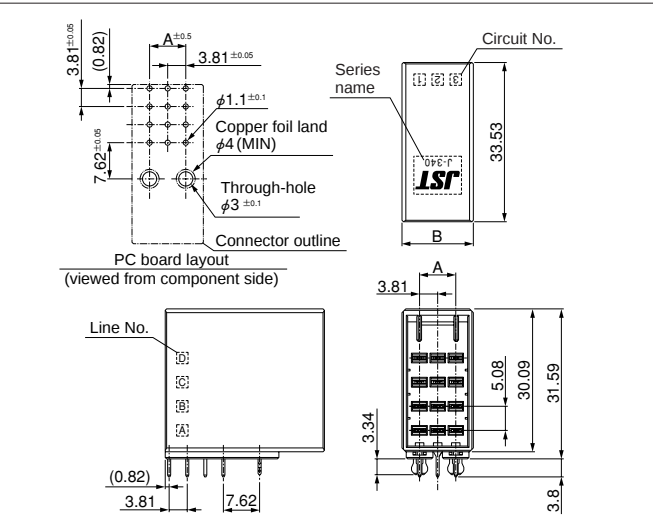
| Circuits | Keying | Model No.    | Q'ty/bag |
|----------|--------|--------------|----------|
| 12       | —      | F34FFC-12V-K | 100      |
| 20       | —      | F34FFC-20V-K | 100      |

### Material

Glass-filled PBT, UL94V-0, black

### RoHS compliance

## Header (Side entry type)



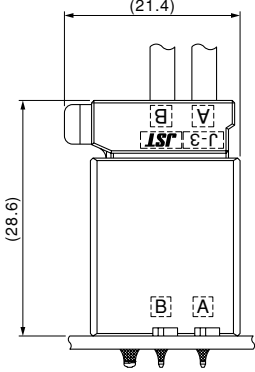
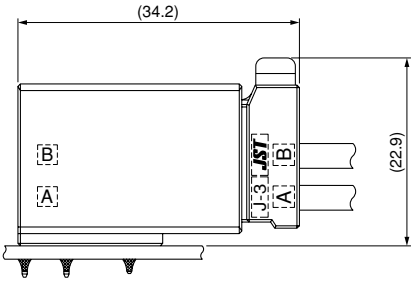
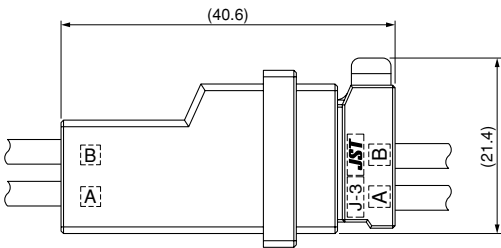
| Circuits | Keying | Model No.       | Dimensions (mm) |       | Q'ty/box |
|----------|--------|-----------------|-----------------|-------|----------|
|          |        |                 | A               | B     |          |
| 12       | —      | SC12B-F34FK-GGR | 7.62            | 15.02 | 63       |
| 20       | —      | SC20B-F34FK-GGR | 15.24           | 22.64 | 42       |

### 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.  
Note: Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.

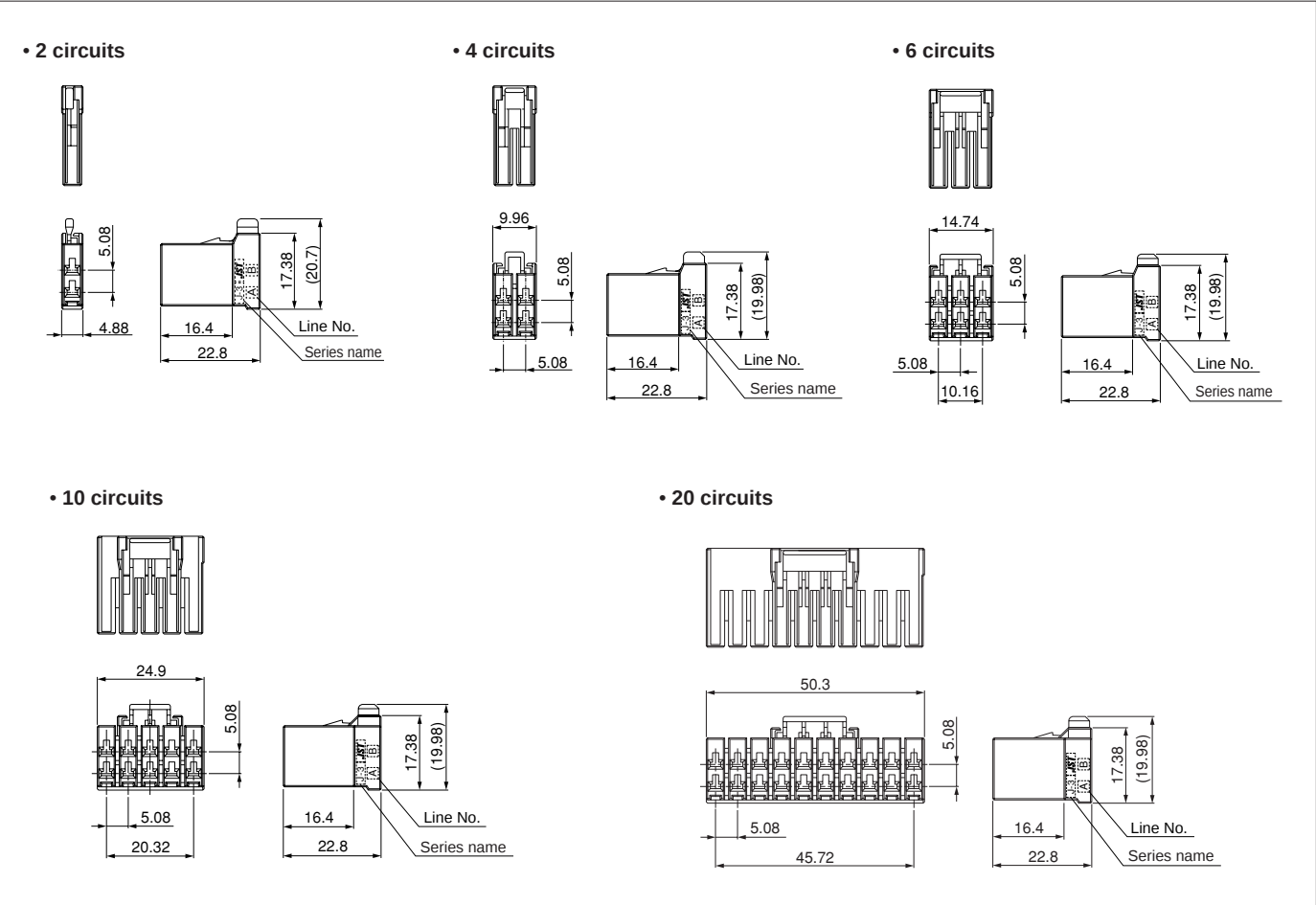
## Assembly layout

|               |                                                                                                                                            |                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Wire-to-board | <p>&lt;Top entry type&gt;</p>                             | <p>&lt;Side entry type&gt;</p>  |
| Wire-to-wire  | <p>&lt;Free hanging type / Panel mounting type&gt;</p>  |                                                                                                                    |

\*When mating with receptacle housing (2-circuit)

# J300 SERIES/J350D

## Receptacle housing



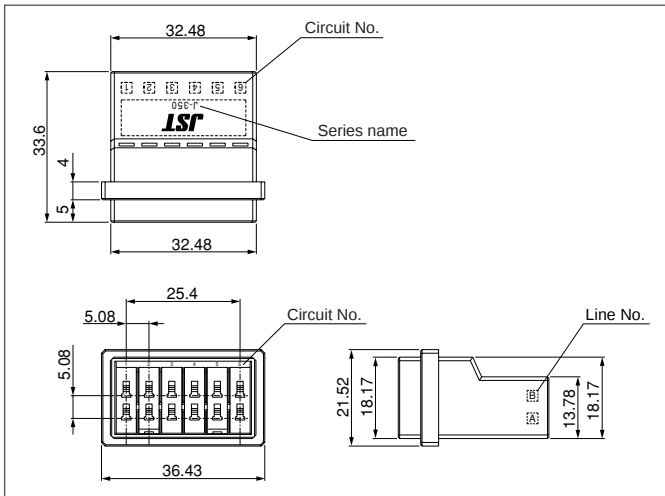
| Circuits | Keying | Model No.    | Q'ty/bag |
|----------|--------|--------------|----------|
| 2        | —      | F35FDC-02V-K | 200      |
| 4        | —      | F35FDC-04V-K | 200      |
| 6        | —      | F35FDC-06V-K | 200      |
| 10       | —      | F35FDC-10V-K | 100      |
| 20       | —      | F35FDC-20V-K | 100      |

### Material

Glass-filled PBT, UL94V-0, black

RoHS compliance

## Tab housing (Free hanging type)



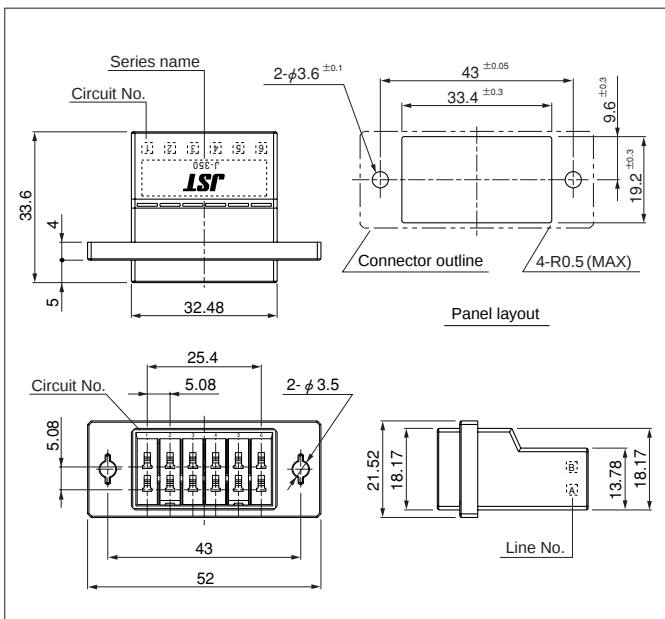
| Circuits | Keying | Model No.           | Q'ty/box |
|----------|--------|---------------------|----------|
| 12       | —      | <b>F35MDF-12V-K</b> | 50       |
| Material |        |                     |          |

Glass-filled PBT, UL94V-0, black

### RoHS compliance

Note: Not TÜV approved.

## Tab housing (Panel mounting type)



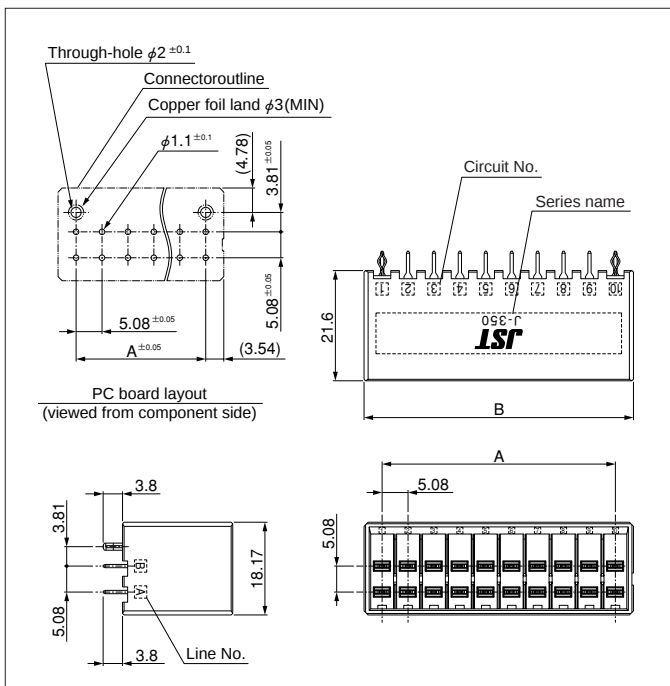
| Circuits | Keying | Model No.           | Q'ty/box |
|----------|--------|---------------------|----------|
| 12       | —      | <b>F35MDP-12V-K</b> | 41       |
| Material |        |                     |          |

Glass-filled PBT, UL94V-0, black

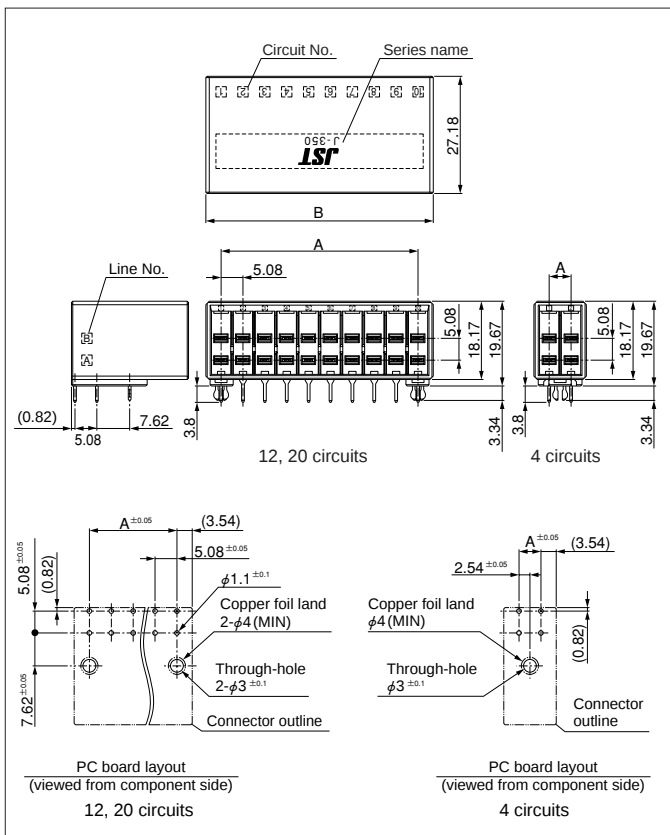
### RoHS compliance

Note: Not TÜV approved.

### Header (Top entry type)



### Header (Side entry type)



| Circuits            | Keying | Model No.       | Dimensions (mm) |       | Q'ty/box |
|---------------------|--------|-----------------|-----------------|-------|----------|
|                     |        |                 | A               | B     |          |
| 12                  | —      | BC12B-F35DK-GGR | 25.4            | 32.48 | 56       |
| 20                  | —      | BC20B-F35DK-GGR | 45.72           | 52.8  | 32       |
| Material and Finish |        |                 |                 |       |          |

## Material and Finish

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

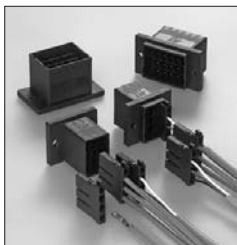
*Note: Contact JST about 0.76 μm gold-plated product and tin-plated product.*

| Circuits            | Keying | Model No.       | Dimensions (mm) |       | Q'ty/box |
|---------------------|--------|-----------------|-----------------|-------|----------|
|                     |        |                 | A               | B     |          |
| 4                   | —      | SC04B-F35DK-GGR | 5.08            | 12.16 | 152      |
| 12                  | —      | SC12B-F35DK-GGR | 25.4            | 32.48 | 56       |
| 20                  | —      | SC20B-F35DK-GGR | 45.72           | 52.8  | 32       |
| Material and Finish |        |                 |                 |       |          |

## Material and Finish

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

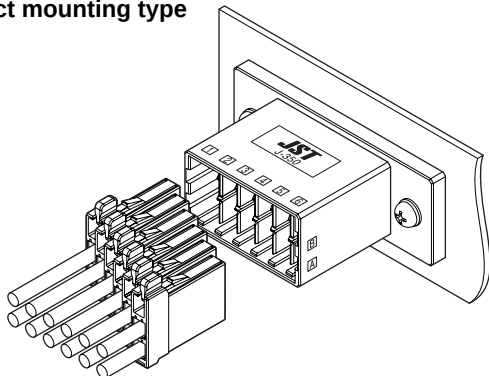
Note: Contact JST about 0.76  $\mu\text{m}$  gold-plated product and tin-plated product.



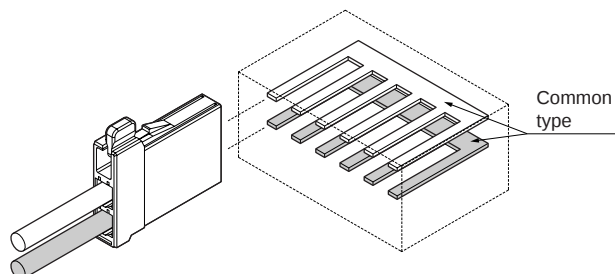
## J300 SERIES COMMON TYPE/J350D

### Double-row Connector type (J350D)

Direct mounting type



Circuit figure



- Rationalization of wiring is realized by the common connection inside the connector

### Specifications

- Current rating: (AC, DC) / (Total input current on single-row)

Unit: A

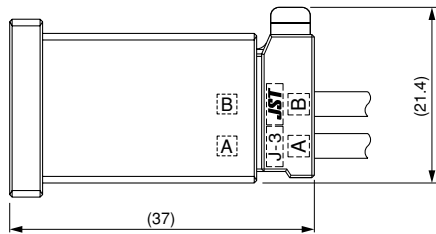
| Circuits | Wire size (AWG) |      |     |     |
|----------|-----------------|------|-----|-----|
|          | #14             | #16  | #18 | #20 |
| 12       | 13.0            | 11.5 | 9.5 | 7.5 |

- Voltage rating: 600 V AC, DC
- Temperature range: -55°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.  
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 2,200 VAC/minute
- Applicable wire: AWG #28 to #14
- \* Contact JST for details.
- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

# J300 SERIES COMMON TYPE/J350D

## Assembly layout

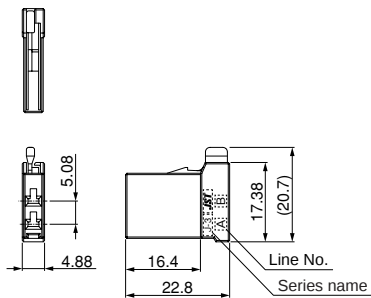
### Direct mounting type



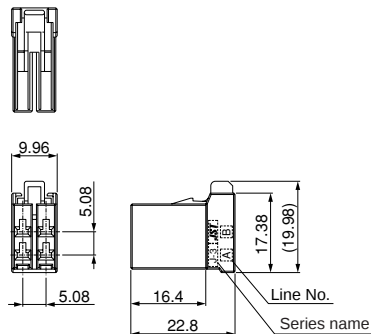
\*When mating with receptacle housing (2-circuit)

## Receptacle housing

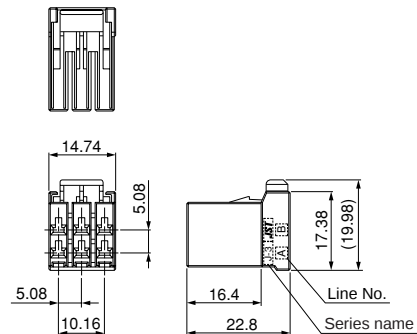
### • 2 circuits



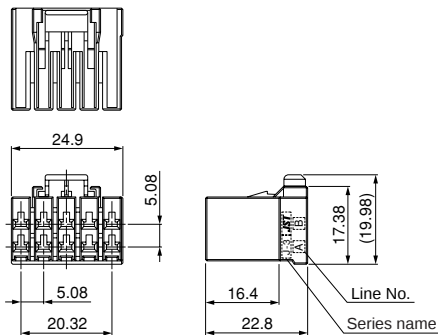
### • 4 circuits



### • 6 circuits



### • 10 circuits



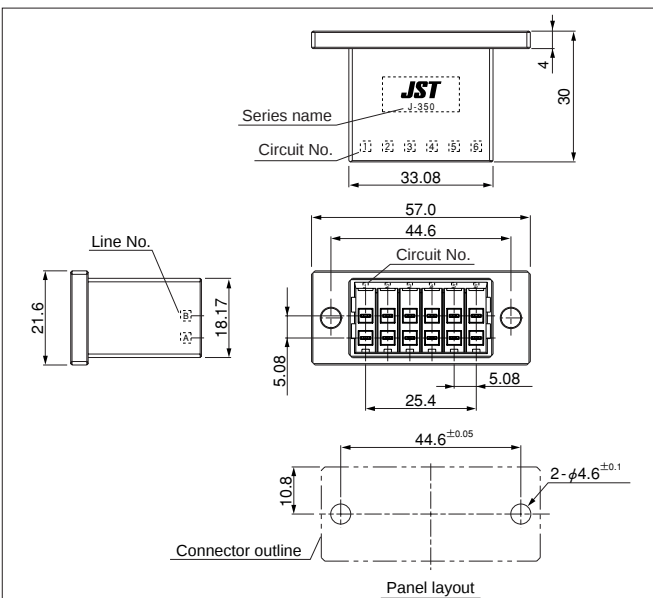
| Circuits | Keying | Model No.    | Q'ty/bag |
|----------|--------|--------------|----------|
| 2        | —      | F35FDC-02V-K | 200      |
| 4        | —      | F35FDC-04V-K | 200      |
| 6        | —      | F35FDC-06V-K | 200      |
| 10       | —      | F35FDC-10V-K | 100      |

#### Material

Glass-filled PBT, UL94V-0, black

#### RoHS compliance

## Tab housing Assembly



| Circuits | Keying | Model No.       | Q'ty/box |
|----------|--------|-----------------|----------|
| 12       | —      | P12B-F35DK-GFAR | 196      |

#### Material and Finish

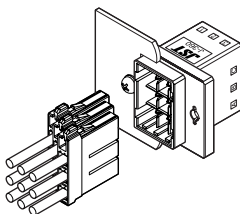
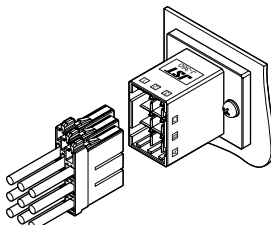
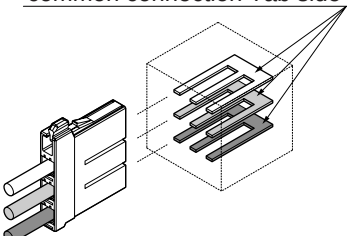
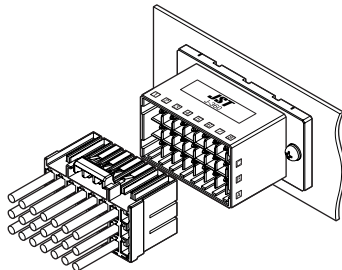
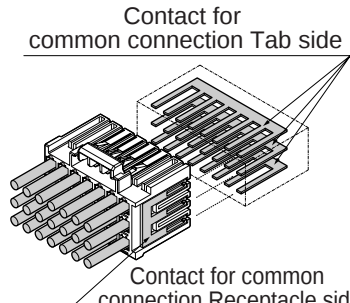
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated  
Housing: Glass-filled PBT, UL94V-0, black

#### RoHS compliance

This product displays (LF)(AU) on a label.  
Note: 1. Contact JST about 0.76 μm gold-plated product and tin-plated product.  
2. Refer to the top page of 350D (Common) for circuit figure.

# J300 SERIES COMMON TYPE/J360T

## Triple-row Common type (360T)

|                                                                     | Panel mounting type                                                               | Direct mounting type                                                                | Circuit figure                                                                                                                                                                  |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| When mating with receptacle housing                                 |  |   | <br>Contact for common connection Tab side                                                   |
| When mating with receptacle housing assembly with common connection |                                                                                   |  | <br>Contact for common connection Tab side<br>Contact for common connection Receptacle side |

- Rationalization of wiring is realized by the common connection inside the connector

## Specifications

- Current rating: (AC, DC)

Unit: A

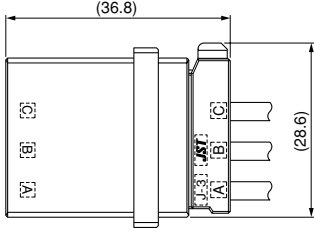
|                                                                                             | Wire size (AWG) |      |      |     |
|---------------------------------------------------------------------------------------------|-----------------|------|------|-----|
|                                                                                             | #14             | #16  | #18  | #20 |
| Receptacle housing<br>(Total input current on single-row)                                   | 12.0            | 10.5 | 8.5  | 6.5 |
| Receptacle housing assembly with common connection<br>(Total input current on all circuits) | 15.0            | 13.5 | 11.5 | 9.5 |

- Voltage rating: 600 V AC, DC
- Temperature range: -55°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.  
After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.  
(When using receptacle housing)
- Withstanding voltage: 2,200 VAC/minute  
(When using receptacle housing)
- Applicable wire: AWG #28 to #14
- \* Contact JST for details.
- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

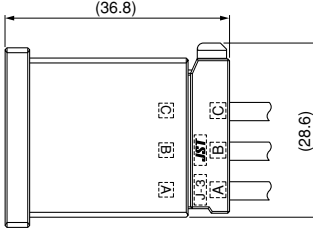
# J300 SERIES COMMON TYPE/J360T

## Assembly layout

**Panel mounting type**

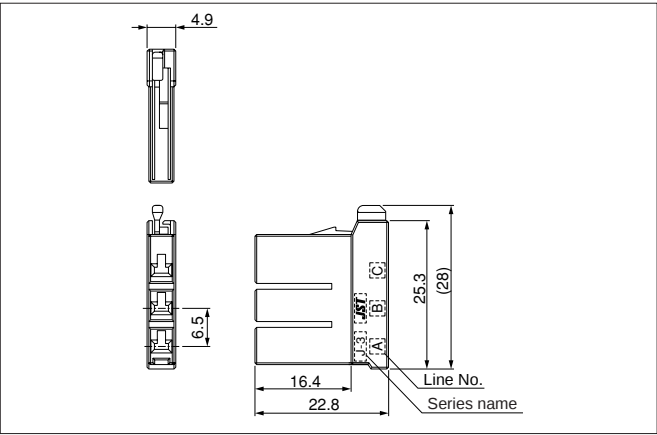


**Direct mounting type**



\*When mating with receptacle housing (3-circuit)

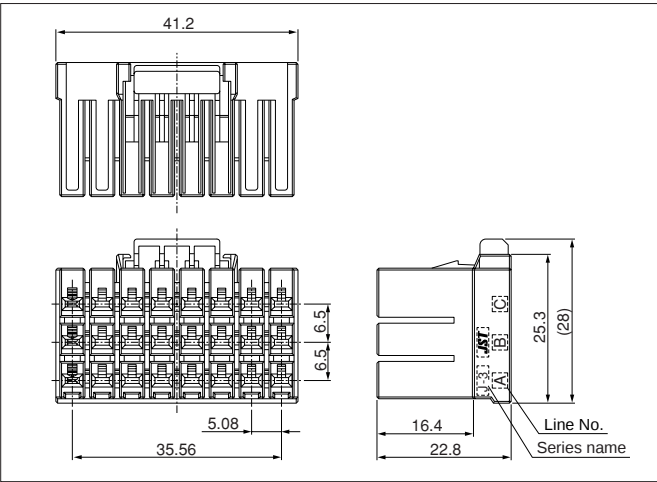
## Receptacle housing



| Circuits                         | Keying | Model No.    | Q'ty/bag |
|----------------------------------|--------|--------------|----------|
| 3                                | —      | F36FTC-03V-K | 200      |
| Material                         |        |              |          |
| Glass-filled PBT, UL94V-0, black |        |              |          |

RoHS compliance

## Receptacle housing assembly with common connection

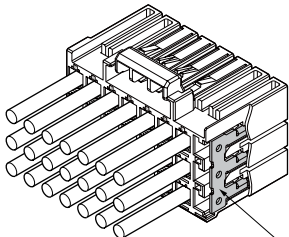


| Circuits                                                                                                                            | Model No.             | Q'ty/bag |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|
| 21                                                                                                                                  | F36FTC-21(24-C8T)V-KC | 60       |
| Material                                                                                                                            |                       |          |
| Contact for common connection: Copper alloy, nickel-undercoated, selective gold-plated<br>Housing: Glass-filled PBT, UL94V-0, black |                       |          |

RoHS compliance

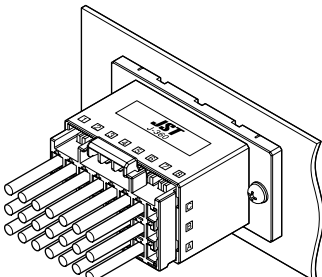
Note: 1. Contact JST about 0.76 μm gold-plated product.  
2. Not CSA/UL/TÜV approved

**Cross-section of receptacle housing assembly with common connection**

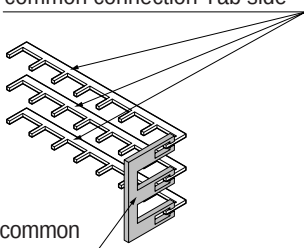


Inserted the contact common to the right side of receptacle housing

**Illustration when using**



**Circuit figure**



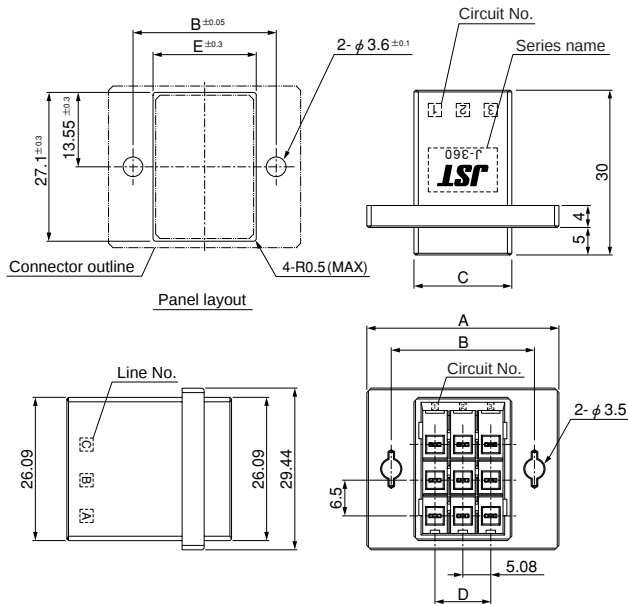
Contact for common connection Tab side

Contact for common connection Receptacle side

# J300 SERIES COMMON TYPE/J360T

## Tab housing Assembly

### • Panel mounting type



| Circuits | Keying | Model No.             | Dimensions (mm) |      |      |       |      | Q'ty /box |
|----------|--------|-----------------------|-----------------|------|------|-------|------|-----------|
|          |        |                       | A               | B    | C    | D     | E    |           |
| 9        | —      | <b>P09B-F36TK-GFR</b> | 35.0            | 26.1 | 17.8 | 10.16 | 18.8 | 364       |
| 18       | —      | <b>P18B-F36TK-GFR</b> | 50.2            | 41.3 | 33.1 | 25.40 | 34.1 | 224       |

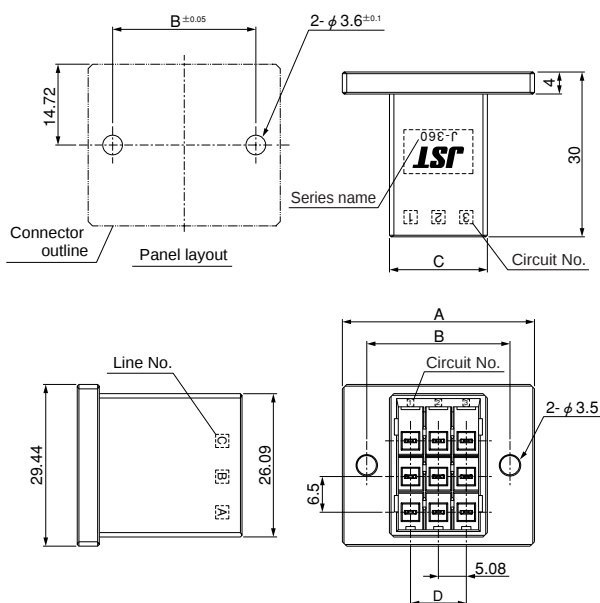
#### Material and Finish

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

#### RoHS compliance

Note: 1. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.  
2. Refer to the top page of 360T (Common type) for circuit figure.

### • Direct mounting type



| Circuits | Keying | Model No.              | Dimensions (mm) |      |      |       | Q'ty /box |
|----------|--------|------------------------|-----------------|------|------|-------|-----------|
|          |        |                        | A               | B    | C    | D     |           |
| 9        | —      | <b>P09B-F36TK-GFAR</b> | 35.0            | 26.1 | 17.8 | 10.16 | 364       |
| 18       | —      | <b>P18B-F36TK-GFAR</b> | 50.2            | 41.3 | 33.1 | 25.40 | 224       |
| 24       | —      | <b>P24B-F36TK-GFAR</b> | 60.4            | 51.5 | 43.2 | 35.56 | 168       |

#### Material and Finish

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

#### RoHS compliance

Note: 1. Contact JST about 0.76  $\mu$ m gold-plated product and tin-plated product.  
2. 24-circuit product without housing cover type is also available.  
3. The directions such as series names of 24-circuit product are different from 9 and 18-circuit products.  
4. 24-circuit product is not approved by UL standard.  
5. Refer to the top page of 360T (Common type) for circuit figure.

# JFA CONNECTOR/J300 SERIES

## Model number identification

### Receptacle contact

**S F3 F - 41 GF - P 2.0**

Form: S...Strip form, B...Loose piece,  
L...Loose piece with curled barrels

Series name

Kind of terminal: F...Receptacle contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20,  
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 $\mu$ m selective gold-plated  
GI...Nickel-undercoated, 0.76 $\mu$ m selective gold-plated  
T...Tin-plated (reflow treatment)

Material: P...Copper alloy

Sub model No.

### Tab contact

**S F3 M - 41 GF - M 2.0 N**

Form: S...Strip form, B...Loose piece  
L...Loose piece with curled barrels

Series name

Kind of terminal: M...Tab contact

Applicable wire: 002...AWG #28 ~ #24, 01...AWG #24 ~ #20  
41...AWG #20 ~ #16, 71...AWG #16 ~ #14

Surface finish: GF...Nickel-undercoated, 0.38 $\mu$ m selective gold-plated  
GI...Nickel-undercoated, 0.76 $\mu$ m selective gold-plated  
T...Tin-plated (reflow treatment)

Material: M...Copper alloy

Terminal size

Sub model No.

### Receptacle housing

**F31 F S S - 03 V - K X**

Series name

Type of connector: F...Receptacle housing,  
FR...Receptacle housing Reverse type

Rows: S...Single-row, D...Double-row with 5.08 mm line pitch  
M...Double-row with 7.62 mm line pitch  
T...Triple-row, F...Quadruple-row

Mounting arrangement: S...Side locking, C...Center locking,  
PA...Panel mounting type

Circuits: 1 ~ 6, 8, 10, 12, 16, 20, 30, 40

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue, M...Green

Keying: X...X-Keying, Y...Y-Keying, Z...Z-Keying, W...W-Keying, XX...XX-Keying,  
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

### Tab housing

**F31 M S F - 03 V - K X**

Series name

Type of connector: M...Tab housing,  
MR...Tab housing Reverse type

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

Mounting arrangement: F...Free hanging, P...Panel mounting  
S...Side locking, PL...Panel mounting Housing lock

Circuits: 1 ~ 6, 8, 10, 12, 16, 20, 30, 40

Flammability: V...UL94V-0

Color indication: K...Black, S...White, E...Blue, M...Green

Keying: X...X-Keying, Y...Y-Keying, Z...Z-Keying, W...W-Keying, XX...XX-Keying,  
YY...YY-Keying, XY...XY-Keying, Blank...Without Keying No.

### Header

**B 05 B - F31 S K - GG X R**

PC board mounting direction:  
B...Top entry type  
S...Side entry type  
BC...Top & center locking  
SR...Side reverse  
SC...Side & center locking

Circuits: 2 ~ 6, 8 ~ 10, 12, 16, 20

Product name: Header

Series name

Rows: S...Single-row  
D...Double-row with 5.08 mm line pitch  
M...Double-row with 7.62 mm line pitch  
T...Triple-row  
F...Quadruple-row

Color indication: K...Black, S...White, E...Blue

Surface finish: GG...Nickel-undercoated, 0.38 $\mu$ m selective gold-plated  
GK...Nickel-undercoated, 0.76 $\mu$ m selective gold-plated  
T...Tin-plated (reflow treatment)

Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying, YY...YY-Keying,  
XY...XY-Keying, XA...XXX-Keying, XB...XXY-Keying,  
XC...XYX-Keying, XD...YYX-Keying, Blank...Without Keying No.

Packaging form: R...Tray, M...Magazine stick

### Receptacle housing assembly

**F36 F T C - 21 (24-C8T) V - K C**

Series name

Type of connector: F...Receptacle housing

Rows: T...Triple-row

Mounting arrangement: C...Center locking

Circuits: 21

Indication of Common : Common circuit is set to  
No. 8 circuit at each row of A, B, and C.

Flammability: V...UL94V-0

Color indication: K...Black

Surface finish of assembled short circuit terminal  
: C...Nickel-undercoated, 0.38 $\mu$ m selective gold-plated  
: D...Nickel-undercoated, 0.76 $\mu$ m selective gold-plated

### Tab housing assembly

**P 18B - F36T K - GF A R**

PC board mounting direction: Panel mounting type

Circuits • Assembly: 9, 12, 18, 24

Series name: F35D...J350D, F36T...J360T

Color indication: K...Black

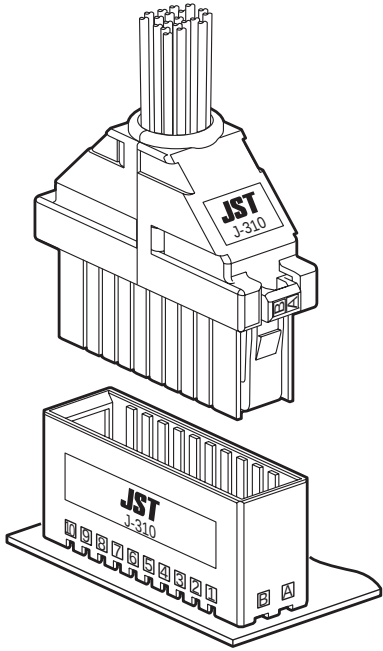
Surface finish: GF...Nickel-undercoated, 0.38 $\mu$ m selective gold-plated  
GI...Nickel-undercoated, 0.76 $\mu$ m selective gold-plated

Mounting arrangement: A...Direct mounting type,  
AN...Direct mounting without housing cover type  
Blank...Panel mounting type

Packaging form: R...Tray



# JFA CONNECTOR J300 SERIES PROTECTOR

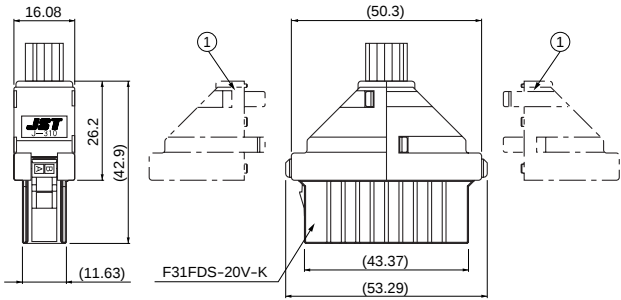


**When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.**

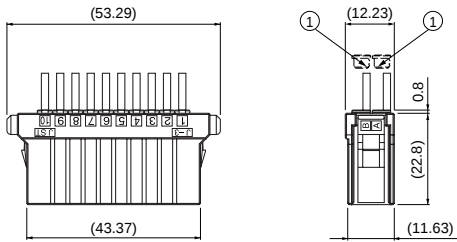
*Note: Protector is not approved by UL/CSA/TÜV standards.*

## J300 Series

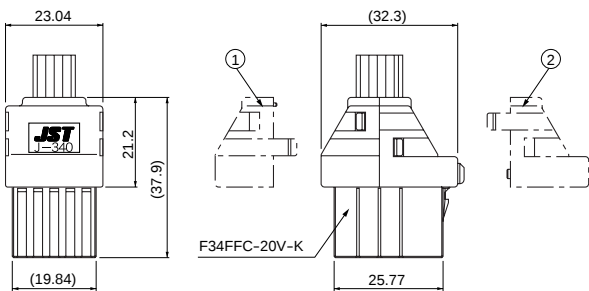
### • J310D series for 20 circuits



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



### • J340F series for 20 circuits



| No.                                                   | Model No.          | Color       | Q'ty/box |
|-------------------------------------------------------|--------------------|-------------|----------|
| 1                                                     | <b>F31PFD-20VK</b> | Black       | 112      |
|                                                       | <b>F31PFD-20SC</b> | Transparent | 112      |
| Material                                              |                    |             |          |
| Black: Glass-filled PBT<br>Transparent: Polycarbonate |                    |             |          |

**RoHS compliance**  
*Note: Two protectors of the same color are used.*

| No.               | Model No.          | Color | Q'ty/box |
|-------------------|--------------------|-------|----------|
| 1                 | <b>F31PFS-10KU</b> | Black | 1,000    |
| Material          |                    |       |          |
| Glass-filled, PBT |                    |       |          |

**RoHS compliance**  
*Note: This protector is cut and used for each number of the circuits.*

| No.                                                   | Model No.           | Color       | Q ty/box |
|-------------------------------------------------------|---------------------|-------------|----------|
| 1                                                     | <b>F34PFF-20VKA</b> | Black       | 80       |
|                                                       | <b>F34PFF-20SCA</b> | Transparent | 80       |
| 2                                                     | <b>F34PFF-20VKB</b> | Black       | 80       |
|                                                       | <b>F34PFF-20SCB</b> | Transparent | 80       |
| Material                                              |                     |             |          |
| Black: Glass-filled PBT<br>Transparent: Polycarbonate |                     |             |          |

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