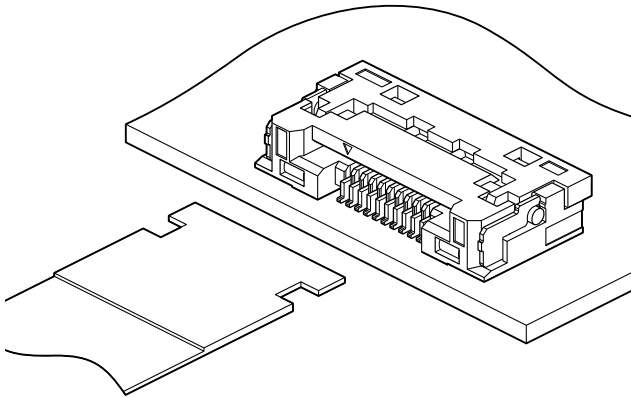




# FHN CONNECTOR



0.5 mm pitch/Connectors for FFC and FPC



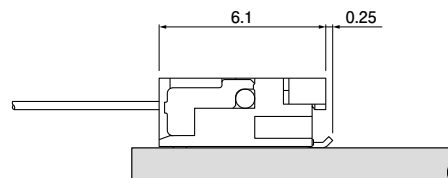
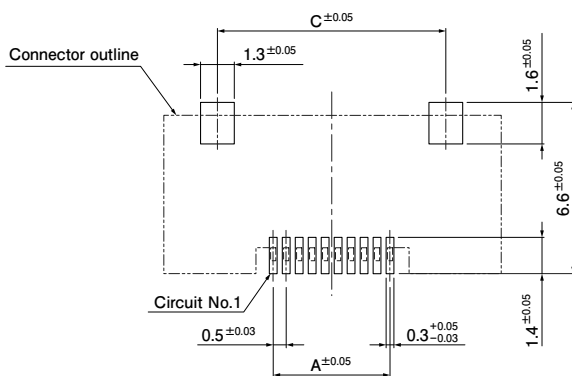
Adopting the auto-locking mechanism which locks by one action when having FFC/FPC inserted into connector, insertion workability and reliability are much improved.

- Auto-locking mechanism that has secure and good workability
- A mechanism that raises the cover housing to unlock when withdrawing FPC/FFC.
- The structure that is strong enough to routing of FFC/FPC
- The insertion completion of FFC/FPC can be confirmed visually from the square hole of the connector upper surface.

## Specifications

- Current rating: 20-circuit or less; 0.5 A AC/DC  
21-circuit or more; 0.3 A AC/DC
  - Voltage rating: 50 V AC/DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/ 50 mΩ max.  
After environmental tests/ 100 mΩ max.
  - Insulation resistance: 500 MΩ min.
  - Withstanding voltage: 200 VAC/minute
  - Applicable FFC/FPC: Conductor pitch/ 0.5 mm  
Conductor width/ 0.32 mm  
Mating part thickness/ 0.3 ± 0.03 mm
- \* In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).
- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

## PC board layout and Assembly layout



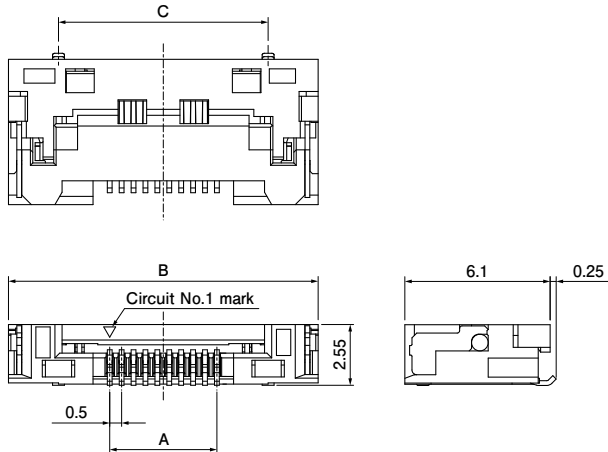
| No. of circuits | Dimensions (mm) |      |
|-----------------|-----------------|------|
|                 | A               | C    |
| 8               | 3.5             | 7.8  |
| 10              | 4.5             | 8.8  |
| 12              | 5.5             | 9.8  |
| 18              | 8.5             | 12.8 |
| 20              | 9.5             | 13.8 |
| 22              | 10.5            | 14.8 |
| 25              | 12.0            | 16.3 |

Note: 1. The above figure is the figure viewed from the connector mounting side  
2. Tolerance for the centers of pattern on PCB is ± 0.03, and shall be not cumulative more than ± 0.05.  
The dimensions above should serve as a guideline. Contact JST for details.

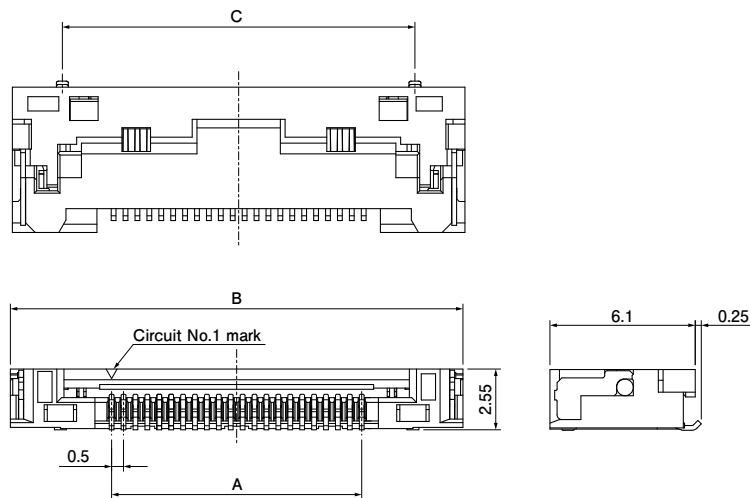
# FHN CONNECTOR

## Connector

(8, 10, 12 circuits)



(18, 20, 22, 25 circuits)



### Tin-plated product

| No. of circuits | Model No.         | Dimensions (mm) |      |      | Q'ty/reel |
|-----------------|-------------------|-----------------|------|------|-----------|
|                 |                   | A               | B    | C    |           |
| 8               | 08FHN-RSM1-A-T-TF | 3.5             | 12.0 | 7.8  | 2,300     |
| 10              | 10FHN-RSM1-A-T-TF | 4.5             | 13.0 | 8.8  |           |
| 12              | 12FHN-RSM1-A-T-TF | 5.5             | 14.0 | 9.8  |           |
| 18              | 18FHN-RSM1-A-T-TF | 8.5             | 17.0 | 12.8 |           |
| 20              | 20FHN-RSM1-A-T-TF | 9.5             | 18.0 | 13.8 |           |
| 22              | 22FHN-RSM1-A-T-TF | 10.5            | 19.0 | 14.8 |           |
| 25              | 25FHN-RSM1-A-T-TF | 12.0            | 20.5 | 16.3 |           |

### Material and Finish

Contact: Copper alloy, tin-plated  
 Bearing parts: Copper alloy, tin-plated  
 Lock parts: Copper alloy, tin-plated  
 Socket housing: LCP, UL94V-0, black  
 Cover housing: LCP, UL94V-0, black

### RoHS2 compliance

Note: The product listed above is supplied on embossed-tape.

### Gold-plated product

| No. of circuits | Model No.           | Dimensions (mm) |      |     | Q'ty/reel |
|-----------------|---------------------|-----------------|------|-----|-----------|
|                 |                     | A               | B    | C   |           |
| 8               | 08FHN-RSM1-A-GAN-TF | 3.5             | 12.0 | 7.8 | 2,300     |

### Material and Finish

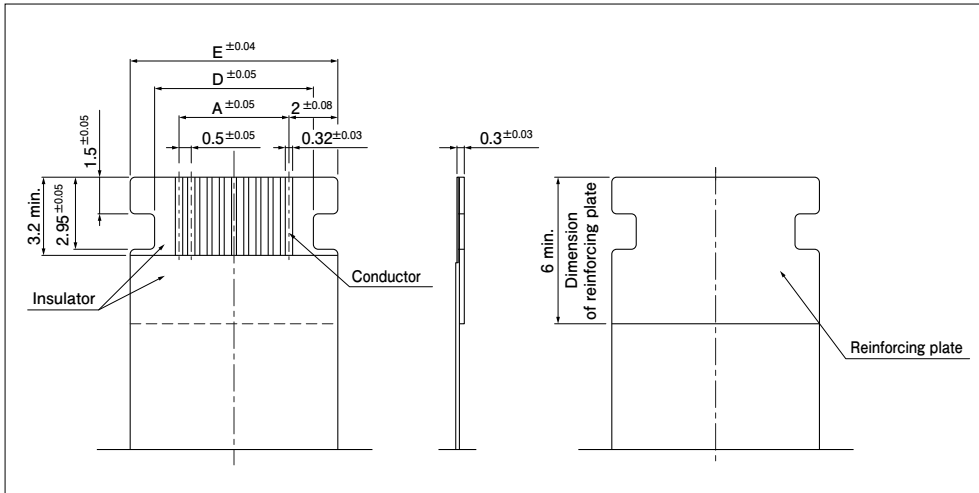
Contact: Copper alloy, nickel-undercoated, selective gold-plated  
 Bearing parts: Copper alloy, tin-plated  
 Lock parts: Copper alloy, tin-plated  
 Socket housing: LCP, UL94V-0, black  
 Cover housing: LCP, UL94V-0, black

### RoHS2 compliance

Note: The product listed above is supplied on embossed-tape.

# FHN CONNECTOR

## Lead section dimensions of FFC/FPC



| No. of circuits | Dimensions (mm) |      |      |
|-----------------|-----------------|------|------|
|                 | A               | D    | E    |
| 8               | 3.5             | 5.5  | 7.5  |
| 10              | 4.5             | 6.5  | 8.5  |
| 12              | 5.5             | 7.5  | 9.5  |
| 18              | 8.5             | 10.5 | 12.5 |
| 20              | 9.5             | 11.5 | 13.5 |
| 22              | 10.5            | 12.5 | 14.5 |
| 25              | 12.0            | 14.0 | 16.0 |

Note: 1. The tolerance of FFC/FPC conductor pitch should be  $\pm 0.05$  mm and non-cumulative.  
2. The dimensions above should serve as a guideline. Contact JST for details.

## Model number allocation

### Connector

