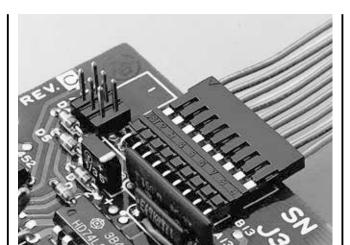
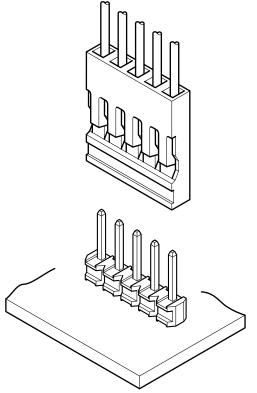


Disconnectable Crimp style connectors



The RE connector was developed as a highly reliable, low-cost, crimp style connector for connecting wires to printed circuit boards. Well suited for completing the internal connections of office automation equipment, such as personal computers, office computers, and their peripheral devices.



### Features ———

### •Reliable, yet low in cost

Our unique, double-leaf spring contact withstands the stresses caused by repeated mating and unmating and ensures a stable high-pressure connection. The contacts and headers are selectively gold-plated to reduce costs. Depending on the application, fully tin-plated contacts and headers are available to further reduce costs.

### Space-saving, high-density design

Measuring only 16.54mm in height and 2.54mm thick when mounted on a printed circuit board, the RE connector and header require less mounting space and facilitate high-density circuit design.

### Easy contact insertion

A slight force is all that is needed to insert the contacts into the housing, because the housing has lances. The position of the contacts in the housing can be visually checked. This facilitates insertion of the contacts in the housing.

### It can be cut to any length to provide a header with any number of circuits

Notches are provided on the insulator that allow it to be cut to any length without using special tools.

### Specifications ———

- Current rating: 2 A AC, DC (5 circuits/AWG #24)
- Voltage rating: 250 V AC, DC
- Temperature range: (including temperature rise in applying

electrical current)

-55°C to +105°C (gold plated)

-55°C to +85°C (tin-plated)

• Contact resistance: Initial value/ 15 m $\Omega$  max.

After environmental tests/ 30 m $\Omega$  max.

• Insulation resistance: 1,000 M $\Omega$  min.

• Withstanding voltage: 1,500 VAC/minute

• Applicable wire: AWG #30 to #24

• Applicable PC board thickness: 1.2 to 1.6 mm

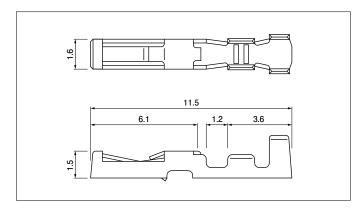
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.
- \* Compliant with RoHS.

### Standards -

Recognized E60389

⊕ Certified LR20812

### Contact -



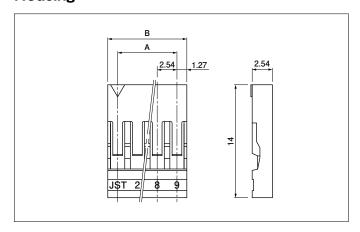
|                        | Applicable wire |          |                      |   | <b>2</b> 1. / |  |
|------------------------|-----------------|----------|----------------------|---|---------------|--|
| Model No.              | mm <sup>2</sup> | AWG #    | Insulation O.D. (mm) | Finish  | Q'ty/<br>reel |  |
| RF-SC2210 0.05 to 0.22 |                 | 30 to 24 | 0.9 to 1.5           | Nickel-undercoated,<br>Mating part: gold-plated<br>Crimping part: tin-plated (reflow treatment) | 10,000        |  |
| RF-SC2290              |                 |          |                      | Tin-plated (reflow treatment)   |               |  |

### Material

Phosphor bronze

RoHS compliance RF-SC2210 displays (LF)(SN) on a label.

### Housing -

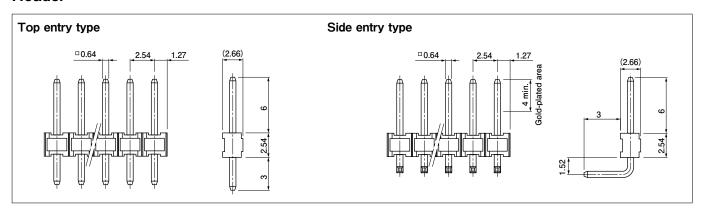


| No. of circuits | Model No. | Dimensions (mm) |       | Q'ty/ |
|-----------------|-----------|-----------------|-------|-------|
|                 |           | Α               | В     | box   |
| 2               | RE-02     | 2.54            | 5.08  | 1,000 |
| 4               | RE-04     | 7.62            | 10.16 | 1,000 |
| 5               | RE-05     | 10.16           | 12.70 | 1,000 |
| 8               | RE-08     | 17.78           | 20.32 | 500   |
| 9               | RE-09     | 20.32           | 22.86 | 500   |

Material PBT, UL94V-0, black

RoHS compliance

### Header -



| Туре            | Model No.       | Material            |       | Finish  |  |
|-----------------|-----------------|---------------------|-------|---|--|
|                 |                 | Wafer               | Post  | 1 1111311   |  |
| Top entry type  | RE-H(*)2TD-1130 | PBT. UL94V-0. black | Brass | Nickel-undercoated, gold-plated   |  |
|                 | RE-H(*)2TD-1190 | PBT, OLS4V-0, DIACK |       | Copper-undercoated, tin-plated (reflow treatment)                                       |  |
| Side entry type | RE-H(*)2SD-1110 | PBT, UL94V-0, black | Brass | Nickel-undercoated, Mating part: gold-plated Solder tail: tin-plated (reflow treatment) |  |
|                 | RE-H(*)2SD-1190 |                     |       | Copper-undercoated, tin-plated (reflow treatment)                                       |  |

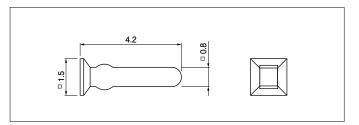
RoHS compliance Tin-plated product displays (LF)(SN) on a label.

Note: 1. A two-digit number (02 to 09) representing the number of circuits should be inserted in (\* ).

Determine the number depending on the number of circuits of the housing or header.

2. Contact JST for special products.

### Polarizing key -

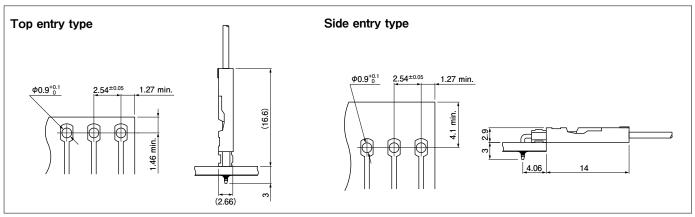


| Model No.                     | Q'ty/bag |  |  |  |
|-------------------------------|----------|--|--|--|
| PK-RF-1                       | 10,000   |  |  |  |
| Material                      |          |  |  |  |
| PBT, UL94V-0, natural (white) |          |  |  |  |

RoHS compliance

Polarizing key: The polarizing key in the housing prevents misinsertion of the connector to the header.

### PC board layout (viewed from soldering side) and Assembly layout -

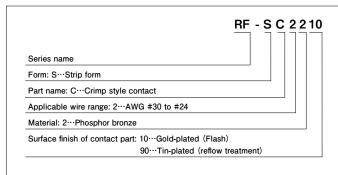


#### Note:

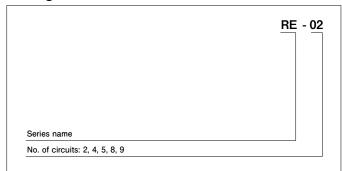
- 1. Tolerances are non-cumulative:  $\pm$  0.05 mm for all centers.
- 2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

### Model number allocation -

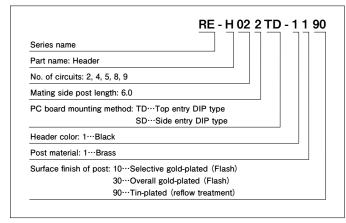
### Contact



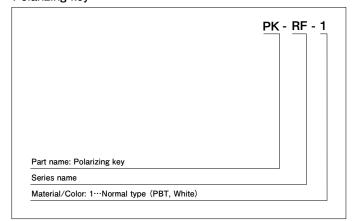
### Housing



### Header



### Polarizing key



### Crimping machine, Applicator -

|           | Crimping | Applicator       |            |                            |  |
|-----------|----------|------------------|------------|----------------------------|--|
| Contact   | machine  | Crimp applicator | Dies       | Crimp applicator with dies |  |
| RF-SC2210 | AD KON   | MKS-L            | MK/RF-SC22 | APLMK RF-SC22              |  |
| RF-SC2290 | AP-K2N   |                  |            |                            |  |

Note: Contact JST for fully automatic crimping applicator.