

JST

IDC

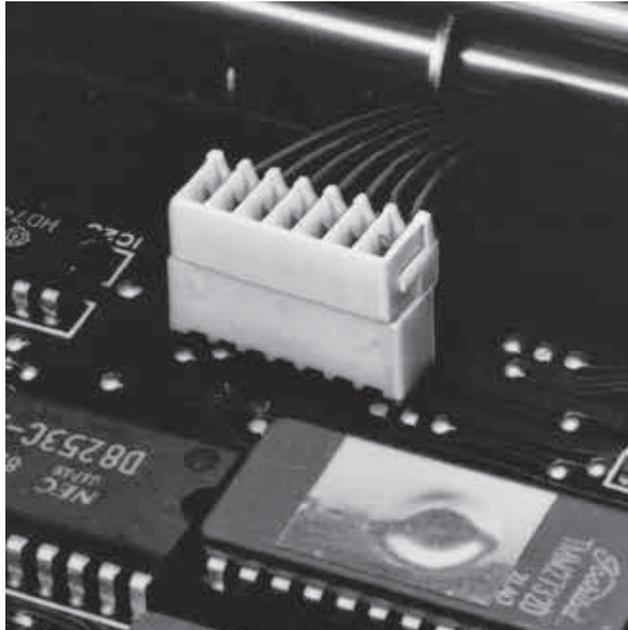
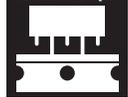
2.5 mm  
pitch

# NR CONNECTOR

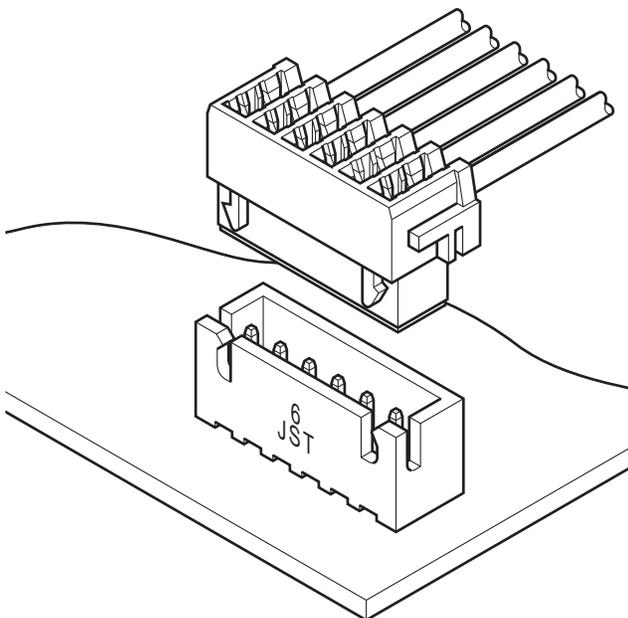
Disconnectable Insulation displacement connectors

Emboss Tape

Radial Tape



The NR connector is our first insulation displacement connector designed for printed circuit boards and has a justified reputation for reliability. The receptacle accepts both discrete wires and ribbon cables.



## Features

### • Twin U-slot insulation displacement section

The insulation displacement section connected to each wire consists of two tin-plated slots (twin U-slot), which ensures reliable connection.

### • Strain relief

The housing has a strain relief feature that supports and protects the insulation displacement connection from vibration, shock and bending.

### • Interchangeability

The header is interchangeable with the XH connectors (crimp style), the NRD connectors (IDC style), and the JQ connectors (board-to-board style).

## Specifications

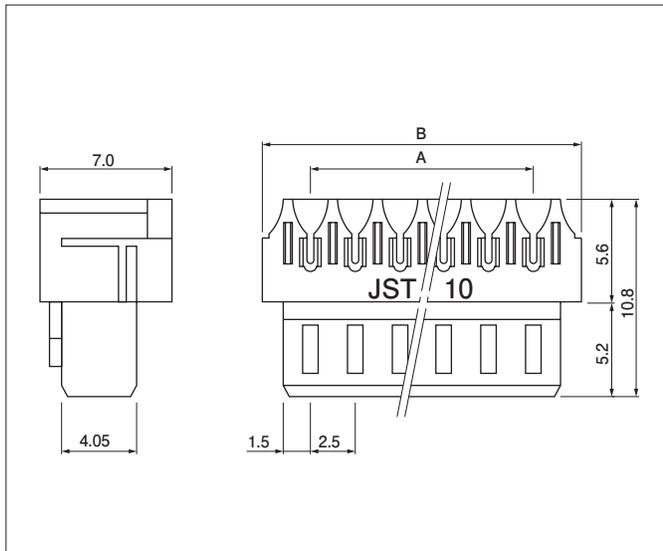
- Current rating: 2 A AC/DC (AWG #24)
  - Voltage rating: 250 V AC/DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/ 10 mΩ max.  
After environmental tests/ 20 mΩ max.
  - Insulation resistance: 1,000 MΩ min.
  - Withstanding voltage:  
There shall be no breakdown or flashover while applying 1,500 VAC for one minute.
  - Applicable wire: UL1007  
(Please contact JST for details regarding the use of other UL style wires.)  
AWG #28, #26, #24  
Conductor/ 7 strands, tin-coated  
Insulation O.D./ 1.1 to 1.5 mm
  - Applicable PC board thickness: 1.6 mm
- \* RoHS2 Compliance  
\* Please refer to the "Handling Precautions for Terminals and Connectors" on our website (listed in the "Technical Documents" column on the Product Information page) before use.  
\* Contact JST for details.

## Standards

Ⓜ :Recognized E60389

Ⓢ :Certified LR20812

## Socket



No. of circuits	Model No.			Dimensions (mm)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	02NR-E8M	02NR-E6S	02NR-E4K	2.5	7.5	1,000
3	03NR-E8M	03NR-E6S	03NR-E4K	5.0	10.0	1,000
4	04NR-E8M	04NR-E6S	04NR-E4K	7.5	12.5	1,000
5	05NR-E8M	05NR-E6S	05NR-E4K	10.0	15.0	500
6	06NR-E8M	06NR-E6S	06NR-E4K	12.5	17.5	500
7	07NR-E8M	07NR-E6S	07NR-E4K	15.0	20.0	500
8	08NR-E8M	08NR-E6S	08NR-E4K	17.5	22.5	500
9	09NR-E8M	09NR-E6S	09NR-E4K	20.0	25.0	250
10	10NR-E8M	10NR-E6S	10NR-E4K	22.5	27.5	250
12	12NR-E8M	12NR-E6S	12NR-E4K	27.5	32.5	200
13	13NR-E8M	13NR-E6S	13NR-E4K	30.0	35.0	200
14	—	14NR-E6S	—	32.5	37.5	200

### Material and Finish

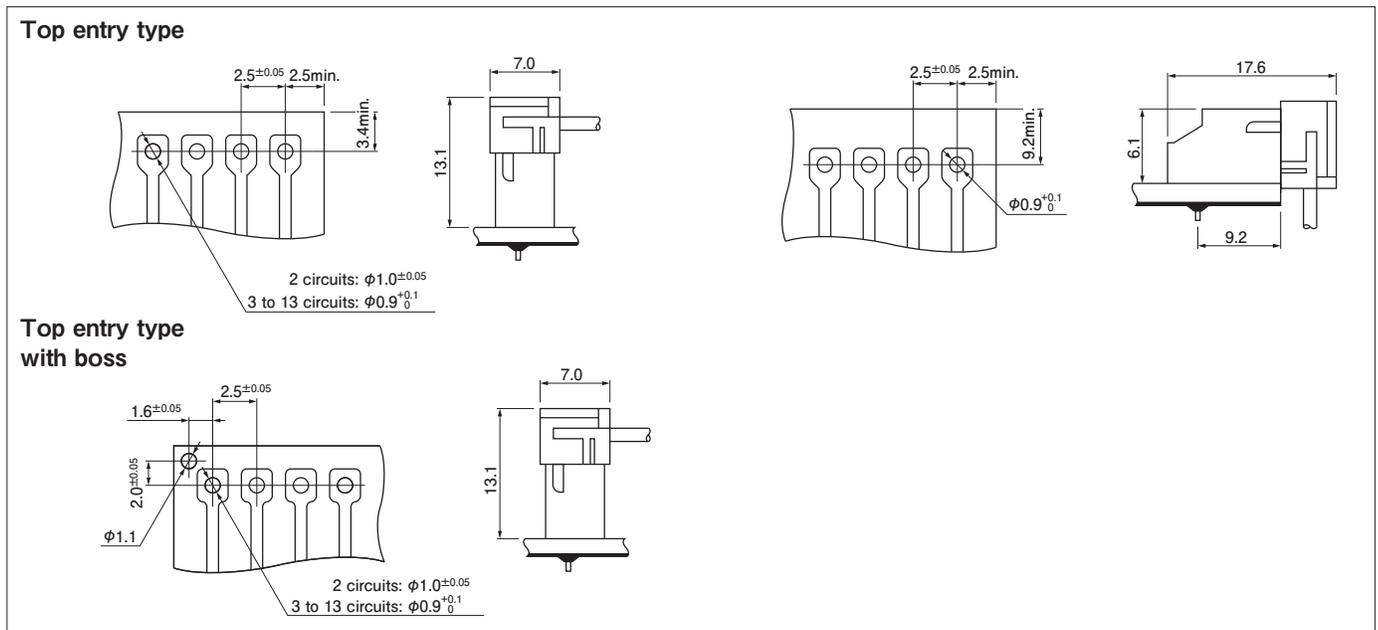
Contact: Phosphor bronze, nickel-undercoated, tin-plated  
Housing: PA 66, UL94V-0

RoHS2 compliance This product displays (LF) on a label.  
Note: 14NR-E6S is not registered with TÜV.

## Header

The NR connector socket, NRD connector socket and JQ connector receptacle are used with the XH (plug) header.

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



### Note:

- Tolerance for the PCB hole pitch shall be  $\pm 0.05$  and shall not accumulate.
- Hole dimensions differ depending on the type of PCB and PCB drilling method.  
When using a through-hole PCB or a board made of hard material, please consider a larger hole diameter.  
The above dimensions are for reference only. Please contact JST for further details.

# NR CONNECTOR

## Model number allocation

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### Socket

<b>02 NR - E 8 M</b>	
No. of circuits: 2 to 10, 12, 13 (AWG #26: 2 to 10, 12 to 14)	
Series name	
Wire connection form: Terminating the wire at its end	
Applicable wire range: 4··AWG #24	
6··AWG #26	
8··AWG #28	
Color: K··Black	AWG #24 Standard color
S··Natural (White)	AWG #26 Standard color
M··Green	AWG #28 Standard color