JST

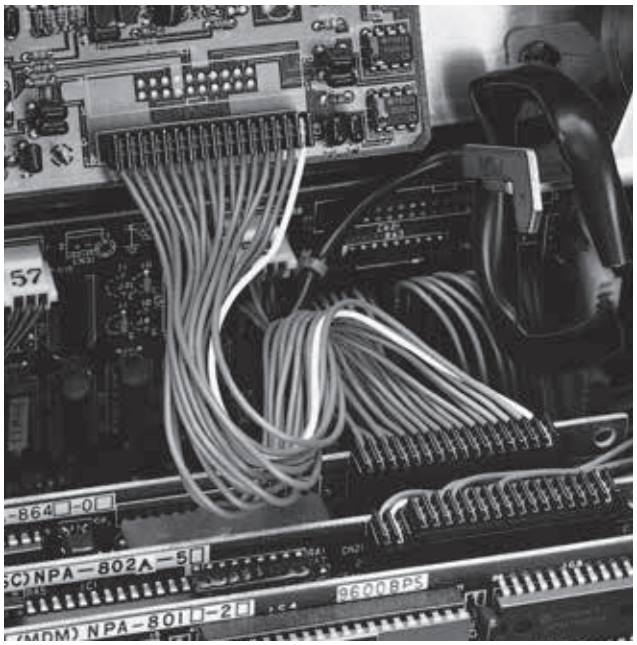
IDC

2.5 mm pitch

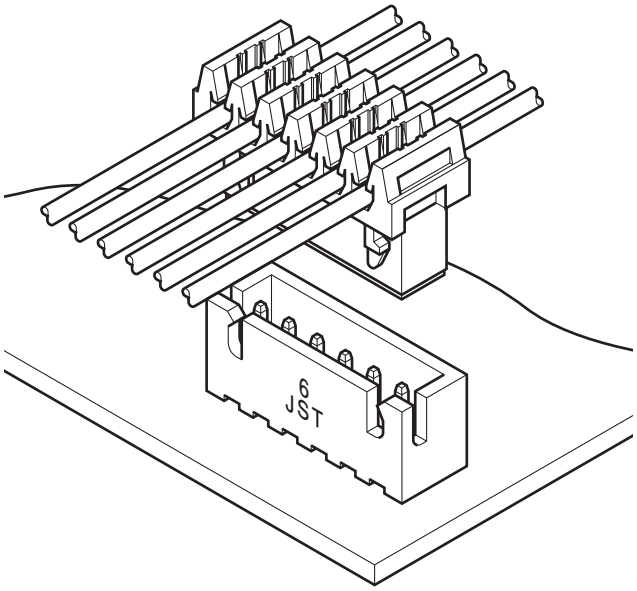
NRD CONNECTOR

Emboss Tape | Radial Tape

Disconnectable Insulation displacement connectors



This 2.5 mm pitch insulation displacement connector is another version of the NR connector for printed circuit boards. The NRD connector allows daisy chaining and is very useful in simplifying connection systems in electronic equipment.



Features

• Daisy chain connection

The connection shown in the figure is commonly called "daisy chain connection"s or "through connection"s. With these simple connections, many signals can be bussed to many different printed circuit boards. The NRD connector is constructed to allow such daisy chain connections.

• Reliable insulation displacement construction

The contact is identical to that of the NR connector which has an established reputation for superb reliability.

• Strain relief

Two strain relief sections are provided on the housing to decouple vibration, bending forces and other external stresses from the insulation displacement section.

• Interchangeability

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

Specifications

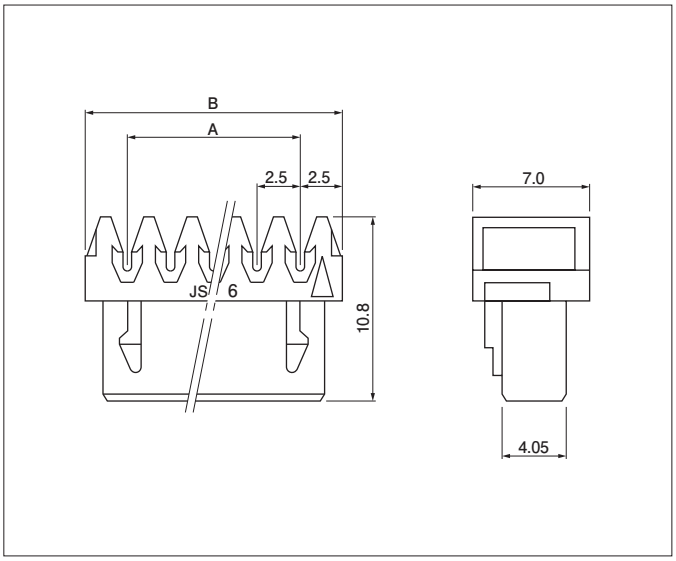
- Current rating: 2 A AC/DC (AWG #24)
- Voltage rating: 250 V AC/DC
- Temperature range: −25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding 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-D8M-P	02NR-D6S-P	02NR-D4K-P	2.5	7.5	1,000
3	03NR-D8M-P	03NR-D6S-P	03NR-D4K-P	5.0	10.0	1,000
4	04NR-D8M-P	04NR-D6S-P	04NR-D4K-P	7.5	12.5	1,000
5	05NR-D8M-P	05NR-D6S-P	05NR-D4K-P	10.0	15.0	500
6	06NR-D8M-P	06NR-D6S-P	06NR-D4K-P	12.5	17.5	500
7	07NR-D8M-P	07NR-D6S-P	07NR-D4K-P	15.0	20.0	500
8	08NR-D8M-P	08NR-D6S-P	08NR-D4K-P	17.5	22.5	500
9	09NR-D8M-P	09NR-D6S-P	09NR-D4K-P	20.0	25.0	250
10	10NR-D8M-P	10NR-D6S-P	10NR-D4K-P	22.5	27.5	250
12	12NR-D8M-P	12NR-D6S-P	12NR-D4K-P	27.5	32.5	250
14	14NR-D8M-P	14NR-D6S-P	14NR-D4K-P	32.5	37.5	200
16	16NR-D8M-P	16NR-D6S-P	16NR-D4K-P	37.5	42.5	200

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0

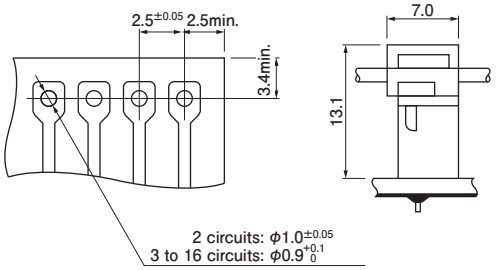
RoHS2 compliance

Header

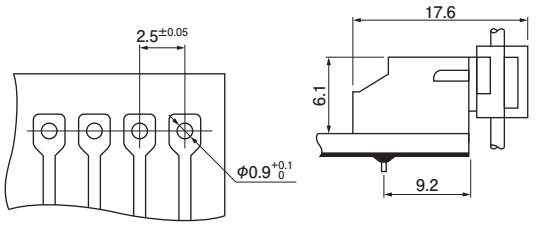
The NR connector socket, NRD connector socket and JQ connector receptacle are used with the XH (plug) header.

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

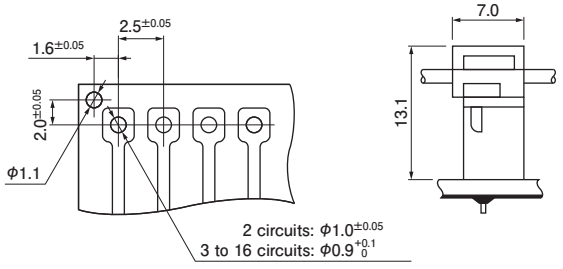
Top entry type



Side entry type



Top entry type with boss



Note:
1. Tolerance for the PCB hole pitch shall be ± 0.05 and shall not accumulate.
2. 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.

Model number allocation

Socket