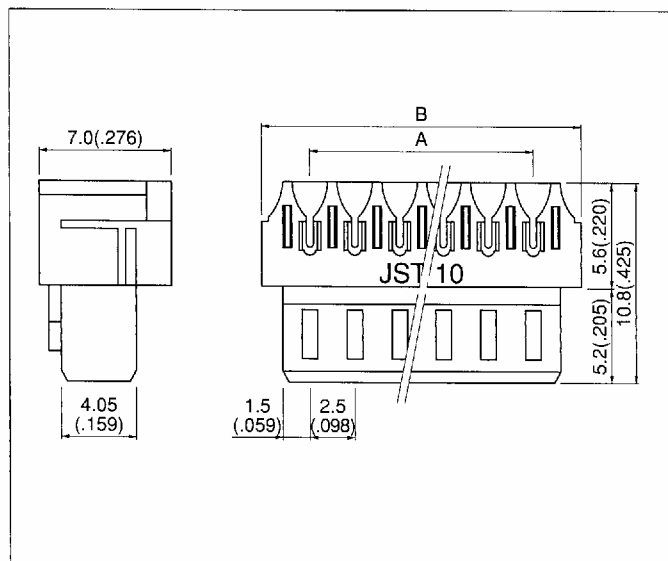


# NR CONNECTOR

## Receptacle



| Circuits | Model No.     |                         |               | Dimensions mm(in.) |              | Q'ty / box |
|----------|---------------|-------------------------|---------------|--------------------|--------------|------------|
|          | AWG #28 Green | AWG #26 Natural (white) | AWG #24 Black | A                  | B            |            |
| 2        | 02NR-E8M      | 02NR-E6S                | 02NR-E4K      | 2.5 (.098)         | 7.5 (.295)   | 1,000      |
| 3        | 03NR-E8M      | 03NR-E6S                | 03NR-E4K      | 5.0 (.197)         | 10.0 (.394)  | 1,000      |
| 4        | 04NR-E8M      | 04NR-E6S                | 04NR-E4K      | 7.5 (.295)         | 12.5 (.492)  | 1,000      |
| 5        | 05NR-E8M      | 05NR-E6S                | 05NR-E4K      | 10.0 (.394)        | 15.0 (.591)  | 500        |
| 6        | 06NR-E8M      | 06NR-E6S                | 06NR-E4K      | 12.5 (.492)        | 17.5 (.689)  | 500        |
| 7        | 07NR-E8M      | 07NR-E6S                | 07NR-E4K      | 15.0 (.591)        | 20.0 (.787)  | 500        |
| 8        | 08NR-E8M      | 08NR-E6S                | 08NR-E4K      | 17.5 (.689)        | 22.5 (.886)  | 500        |
| 9        | 09NR-E8M      | 09NR-E6S                | 09NR-E4K      | 20.0 (.787)        | 25.0 (.984)  | 250        |
| 10       | 10NR-E8M      | 10NR-E6S                | 10NR-E4K      | 22.5 (.886)        | 27.5 (1.083) | 250        |
| 12       | 12NR-E8M      | 12NR-E6S                | 12NR-E4K      | 27.5 (1.083)       | 32.5 (1.280) | 200        |
| 13       | 13NR-E8M      | 13NR-E6S                | 13NR-E4K      | 30.0 (1.181)       | 35.0 (1.378) | 200        |

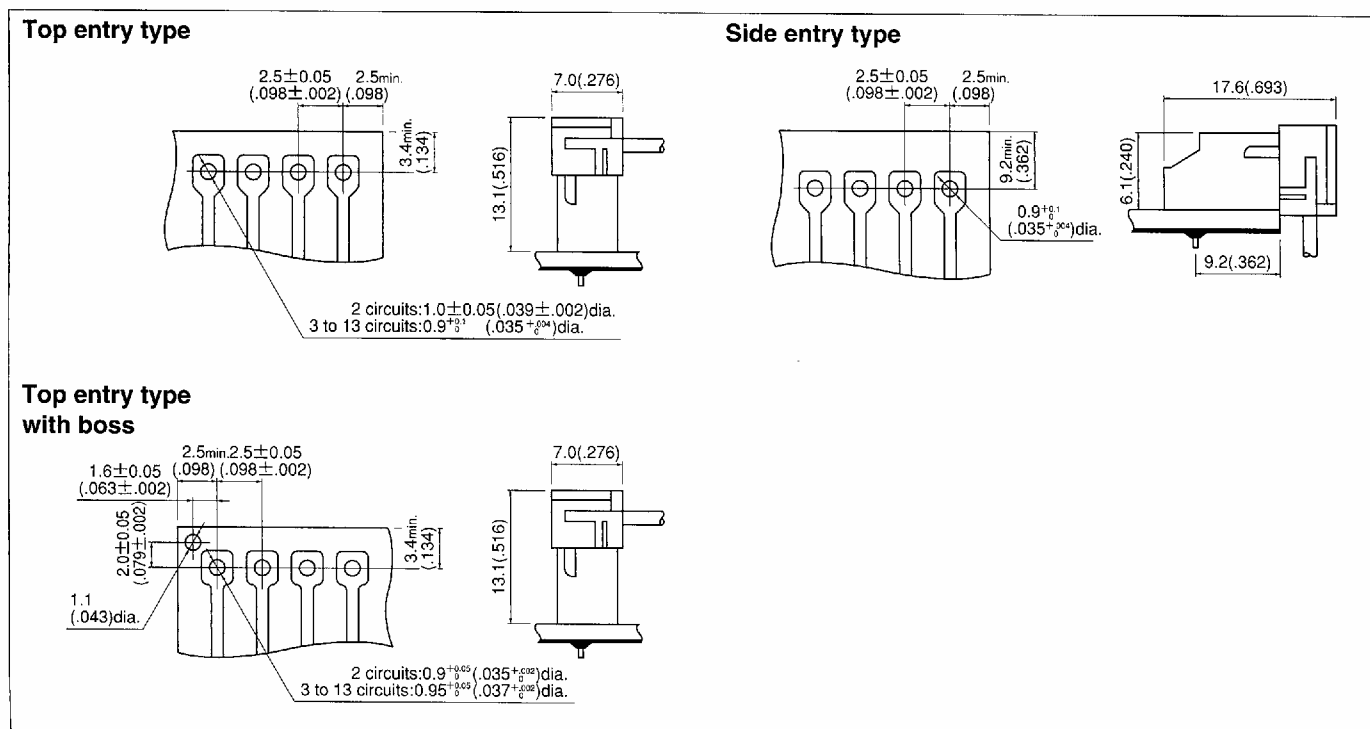
### Material and Finish

Contact: Phosphor bronze tin-plated  
Housing: Nylon 66, UL94V-0

## Shrouded header

The shrouded headers are interchangeable with the XH crimp style connectors, the BR and NRD insulation displacement connectors, and the JQ board-to-board connectors (see pages 27, 140, 144).

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



Note:

- Tolerances are non-cumulative: ± 0.05mm (± .002") for all centers.
  - Hole dimensions differ according to the kind of PC board and piercing method. If printed circuit boards are made of hard material such as FR-4 are used, the hole dimensions should be larger. The dimensions above should serve as a guideline.
- Contact JST for details.

JST

IDC

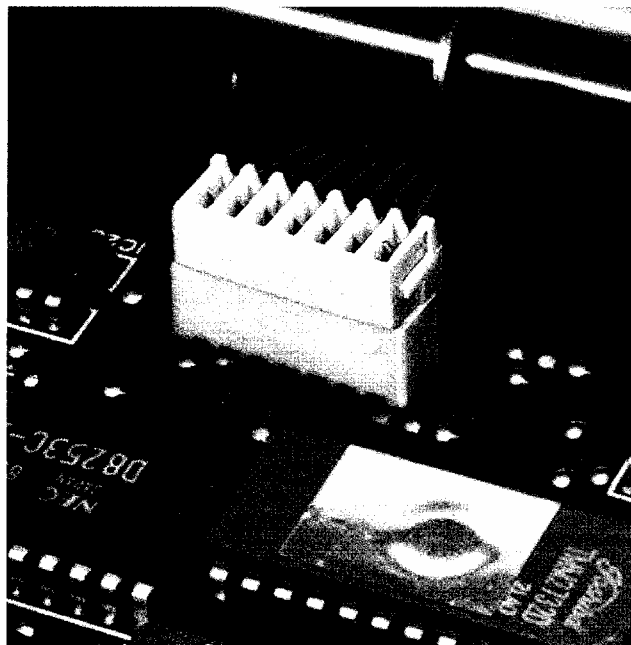
2.5mm  
(.098") pitch

# NR CONNECTOR

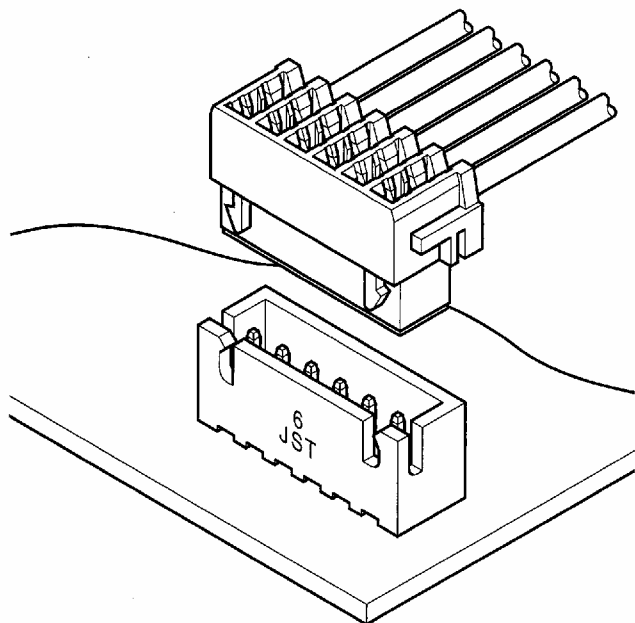
Disconnectable Insulation displacement connectors

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 is color-coded according to the applicable wire size (AWG #28 green, AWG #26 white and AWG #24 black) and accepts both discrete wires and ribbon cables.*



## Features

### • Low profile

The connector has a low profile with a mounting height of 13.1mm (.516").

### • Twin U-slot insulation displacement section

The insulation displacement section connected to each wire consists of two tin-plated slots (twin U-slots). This redundancy ensures reliable connection even under adverse circumstances.

### • Strain relief

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

### • Interchangeability

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

## Specifications

- Current rating: 2.0A AC,DC
  - Voltage rating: 250V AC,DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/10m Ω max.  
After environmental testing/20m Ω max.
  - Insulation resistance: 1,000M Ω min.
  - Withstanding voltage: 1,500V AC/minute
  - Applicable wire: AWG #28, #26, #24  
UL1007(Contact JST for details regarding other UL wires.)  
Conductor/7 strands, tin-coated  
Insulation O.D./1.1 to 1.5mm(.043" to .059")
  - Applicable PC board thickness: 1.6mm(.063")
- \* Contact JST for details.

## Standards



Recognized file No. E60389



Certified file No. LR20812



File No. R85272 (conforms to DIN/VDE 0627)