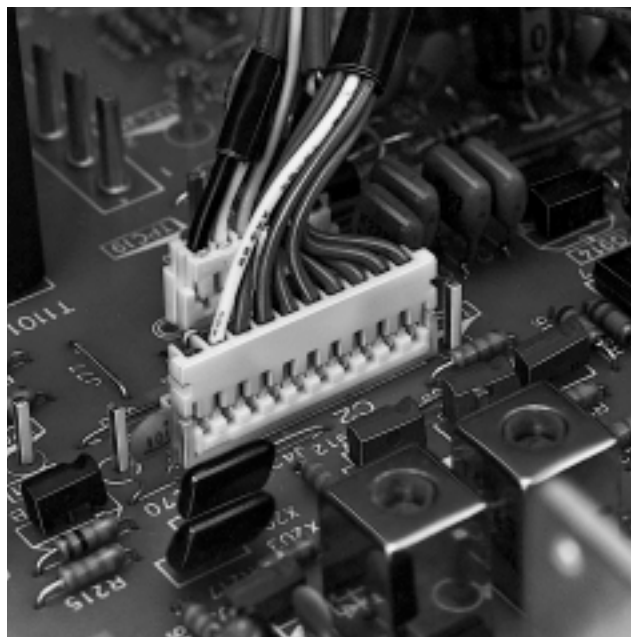
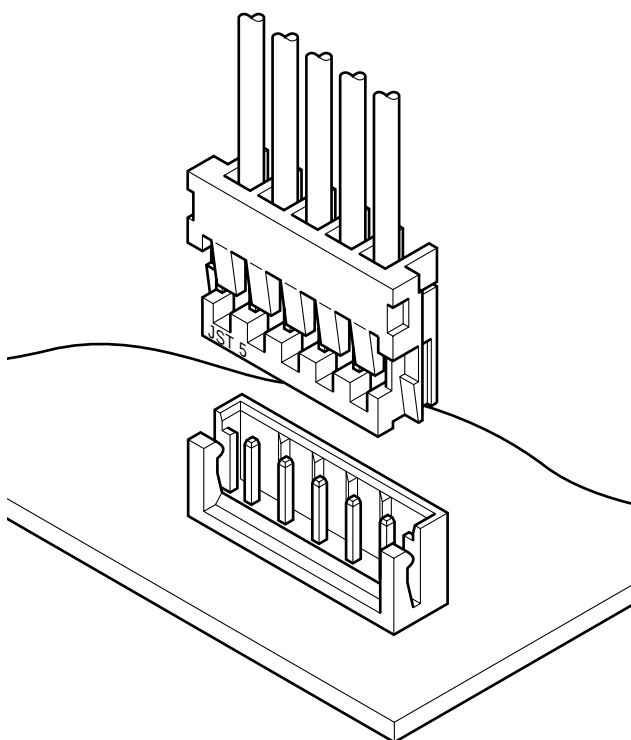




***This 2.5mm (.098") pitch connector for printed circuit boards has an ultra-thin construction. The in-line method provides high-density capability to the end user.***



## Features

### • ***Twin U-slot insulation displacement section***

The insulation displacement section has reliable twin U-slots like those of JST's other insulation displacement connectors.

### • ***Ultra-thin design***

The connector is very small, with a mounting height of 11.3mm (.445") and a width of 4.1mm (.161").

### • ***High reliability***

The contact has a dimple where it mates with the post to ensure a continuous gas tight connection when used for circuits requiring minute amounts of current and voltage. In addition, it is built to withstand vibration and prevent deformation.

### • ***Strain relief***

A metallic strain relief secures the wire so as to protect the insulation displacement connection against vibration, impact and other external forces.

### • ***Interchangeability***

The shrouded header is interchangeable with the 2.5mm (.098") pitch crimp style EH connectors.

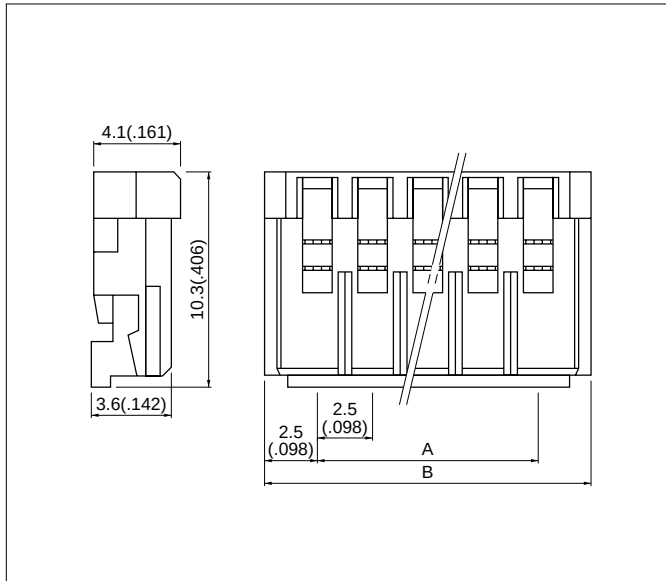
## Specifications

- Current rating: 2A AC, DC (AWG #24)
  - 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: 1,000V AC/minute
  - Applicable wire: UL1007(Contact JST for details regarding other UL wires.)  
AWG #28, #26, #24  
Conductor/7 strands, tin-coated  
Insulation O.D/1.0 to 1.5mm(.039" to .059")
  - Applicable PC board thickness: 0.8 to 1.6mm(.031" to .063")
- \* Contact JST for details.

## Standards

- 0 Recognized E60389
- 1 Certified LR20812
- 2 R75089

## Receptacle



| Cir-<br>cuits | Model No.          |                            |                    | Dimensions mm(in.) |             | Q'ty /<br>box |
|---------------|--------------------|----------------------------|--------------------|--------------------|-------------|---------------|
|               | AWG #28<br>(green) | AWG #26<br>(natural/white) | AWG #24<br>(black) | A                  | B           |               |
| 2             | 02HR-8M            | 02HR-6S                    | 02HR-4K            | 2.5(.098)          | 7.5(.295)   | 1,000         |
| 3             | 03HR-8M            | 03HR-6S                    | 03HR-4K            | 5.0(.197)          | 10.0(.394)  | 1,000         |
| 4             | 04HR-8M            | 04HR-6S                    | 04HR-4K            | 7.5(.295)          | 12.5(.492)  | 1,000         |
| 5             | 05HR-8M            | 05HR-6S                    | 05HR-4K            | 10.0(.394)         | 15.0(.591)  | 1,000         |
| 6             | 06HR-8M            | 06HR-6S                    | 06HR-4K            | 12.5(.492)         | 17.5(.689)  | 1,000         |
| 7             | 07HR-8M            | 07HR-6S                    | 07HR-4K            | 15.0(.591)         | 20.0(.787)  | 500           |
| 8             | 08HR-8M            | 08HR-6S                    | 08HR-4K            | 17.5(.689)         | 22.5(.886)  | 500           |
| 9             | 09HR-8M            | 09HR-6S                    | 09HR-4K            | 20.0(.787)         | 25.0(.984)  | 500           |
| 10            | 10HR-8M            | 10HR-6S                    | 10HR-4K            | 22.5(.886)         | 27.5(1.083) | 500           |
| 11            | 11HR-8M            | 11HR-6S                    | 11HR-4K            | 25.0(.984)         | 30.0(1.181) | 500           |
| 12            | 12HR-8M            | 12HR-6S                    | 12HR-4K            | 27.5(1.083)        | 32.5(1.280) | 500           |
| 13            | 13HR-8M            | 13HR-6S                    | 13HR-4K            | 30.0(1.181)        | 35.0(1.378) | 250           |
| 15            | —                  | 15HR-6S                    | 15HR-4K            | 35.0(1.378)        | 40.0(1.575) | 250           |

### Material and Finish

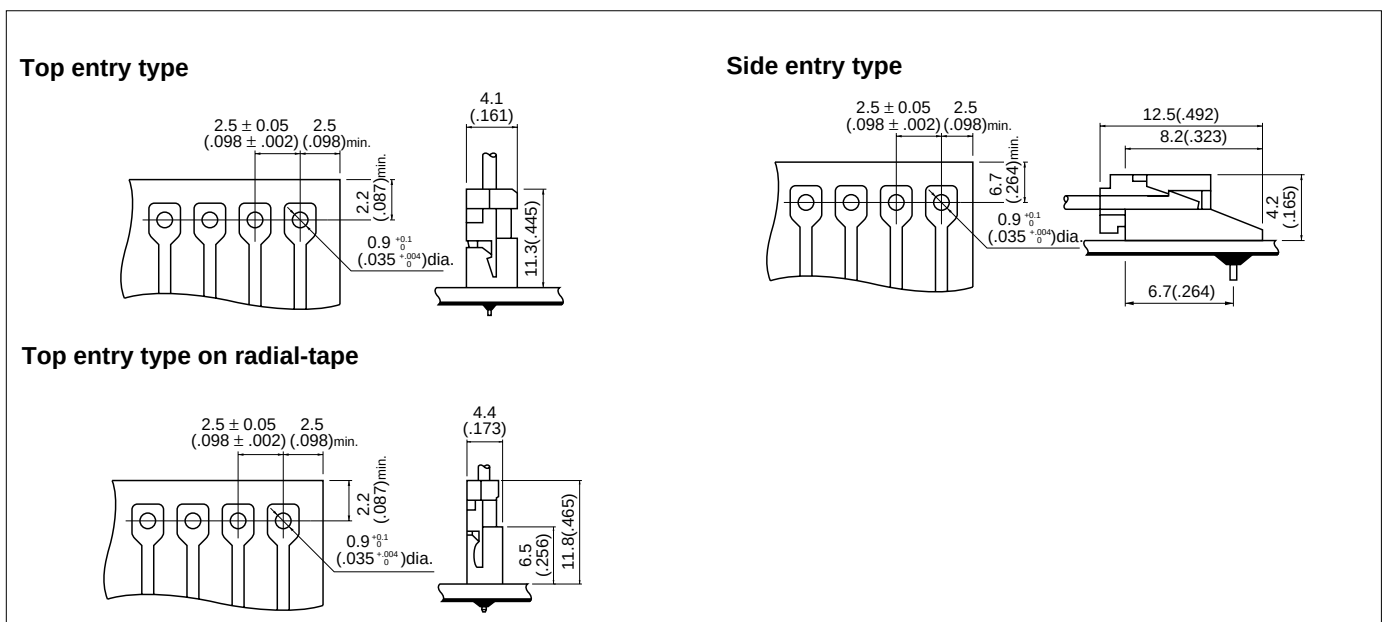
Contact: Phosphor bronze, tin-plated  
Housing: Nylon 66, UL94V-0

Note: 15HR-6S and 15HR-4K are not UL recognized nor CSA certified.

## Shrouded header

The shrouded headers are interchangeable with those of the EH and HR crimp style connectors.

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



### Note:

1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}(\pm .002")$  for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC 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.