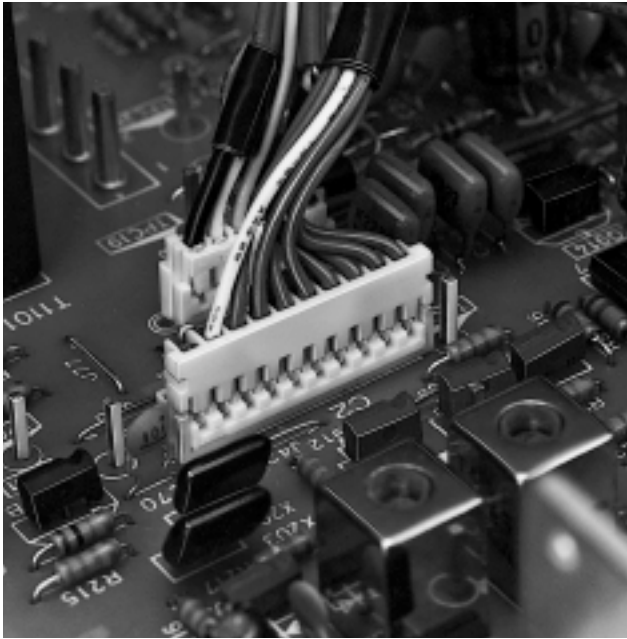
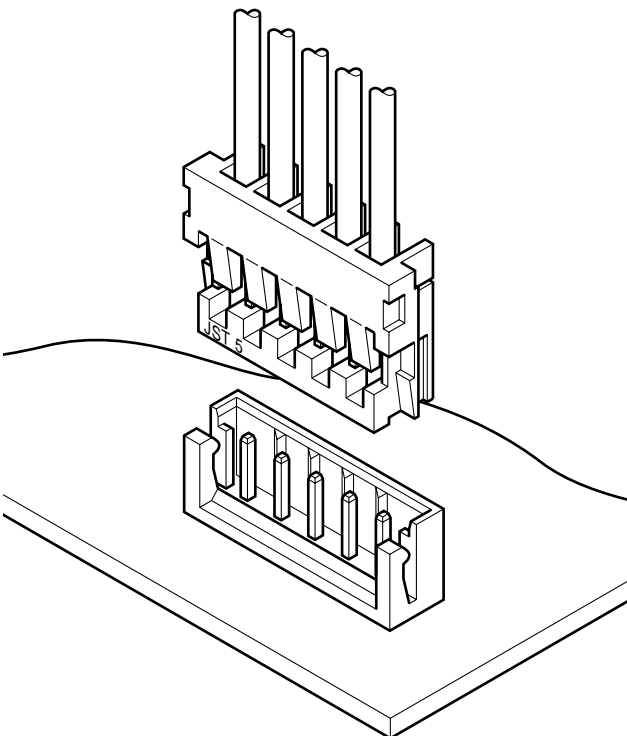


# HR CONNECTOR

Disconnectable insulation displacement connectors



**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.

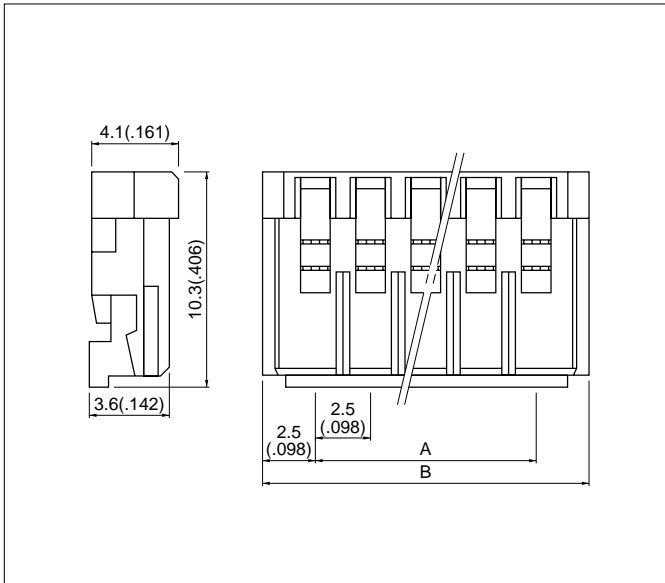
## Specifications

- 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

- Recognized E60389
- 1 Certified LR20812
- 2 R75089

## Receptacle



Circuits	Model No.			Dimensions mm(in.)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (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

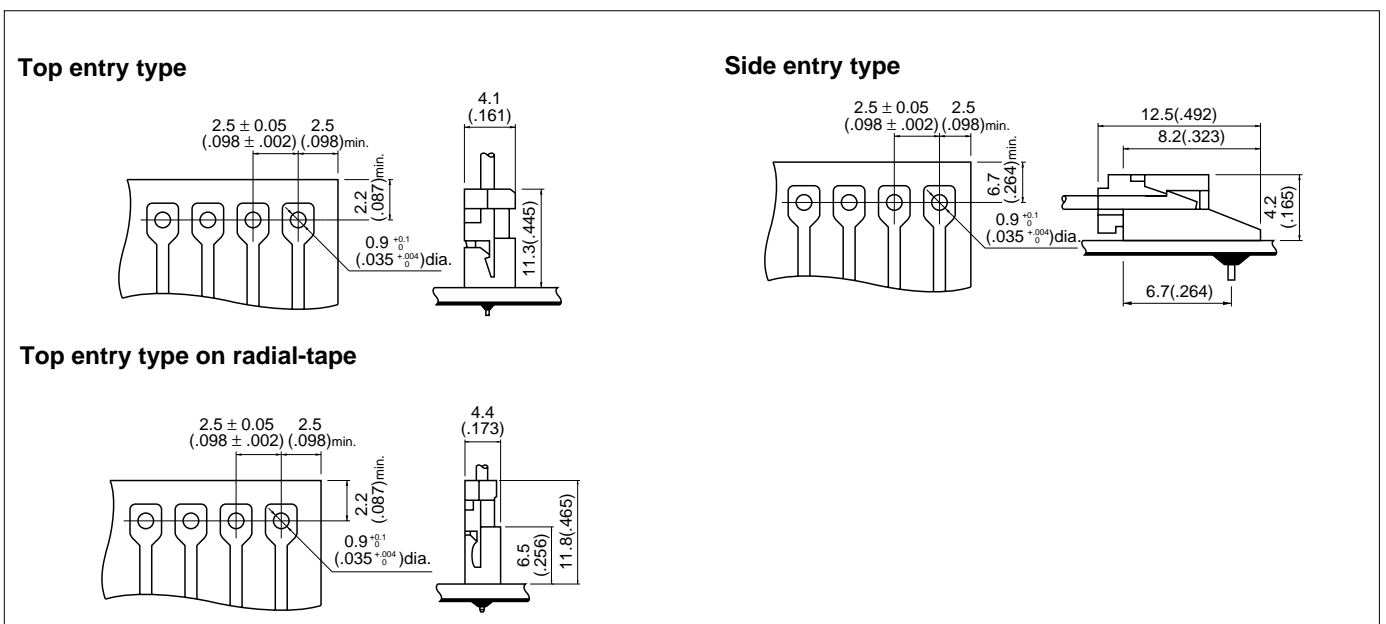
Contact: Phosphor bronze, tin-plated  
Housing: Nylon 66, UL94V-0

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.