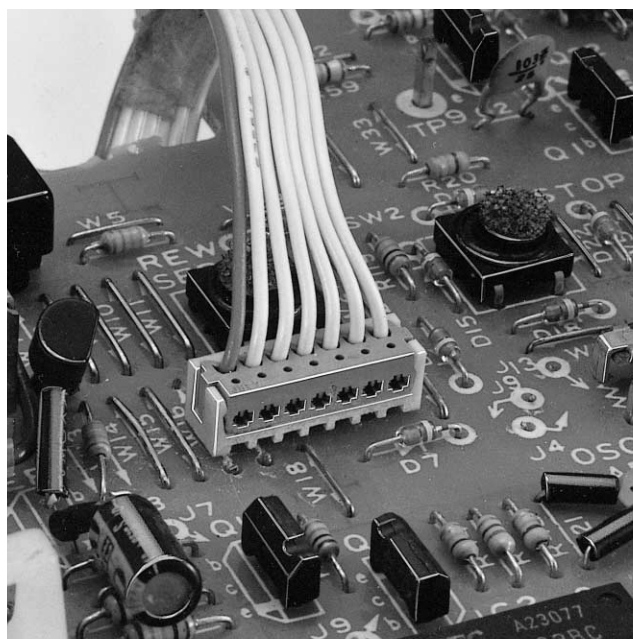
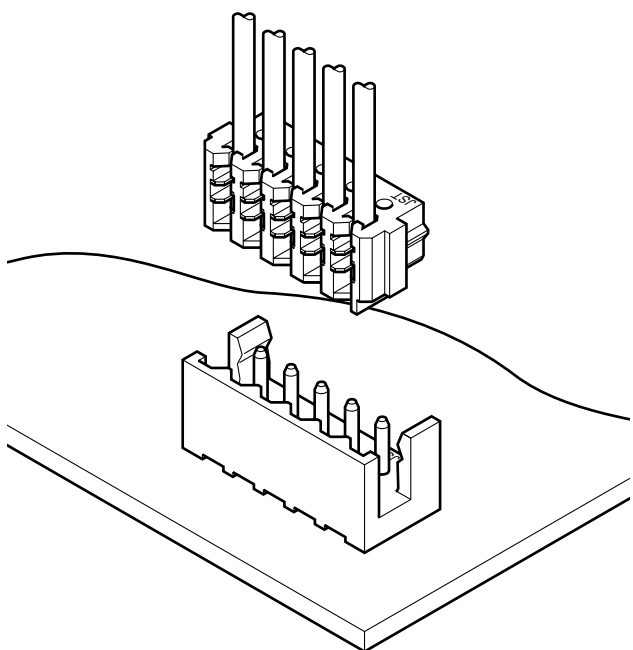


# DR CONNECTOR

*Disconnectable Insulation displacement connectors*



**Measuring 2.0mm (.079") in pitch, only 5.0mm (.197") in mounting height, and 4.8mm (.189") in thickness, the DR connector is a compact insulation displacement connector developed to meet the needs for miniaturization of electronic equipment, including VCRs, cameras and car stereo systems.**



## Features

### • Compact

This connector measures 2.0mm (.079") in pitch, 5.0mm (.197") in mounting height, and 4.8mm (.189") in thickness.

### • Twin U-slot insulation displacement section

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

### • Folded beam double-leaf contact construction

As contact become smaller, their spring strength is reduced. To solve this problem, a folded beam construction is employed to increase contact spring strength.

### • Strain relief

A strain relief secures the wire insulation to protect the insulation displacement connection against vibration, impact and other external forces. A triangular projection on the shrouded header functions to prevent connector distortion during connection and disconnection, to reinforce the strain relief and to prevent the conductor of the insulation displacement section from being exposed.

## Specifications

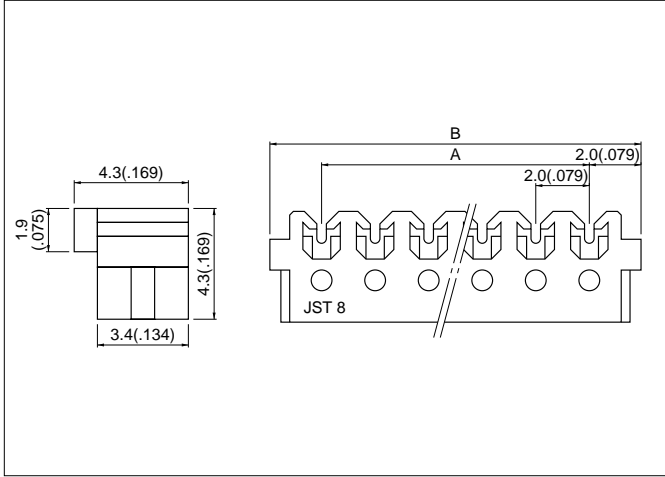
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.  
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061(Contact JST for details regarding other UL wires.)  
AWG #28, #26  
Conductor/7 strands, tin-coated  
Insulation O.D./0.9 to 1.0mm(.035" to .039")
- Applicable PC board thickness: 1.2 to 1.6mm(.047" to .063")
- \* Contact JST if Lead-Free product is required.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

## Standards

Ⓜ Recognized E60389

Ⓢ Certified LR20812

## Receptacle

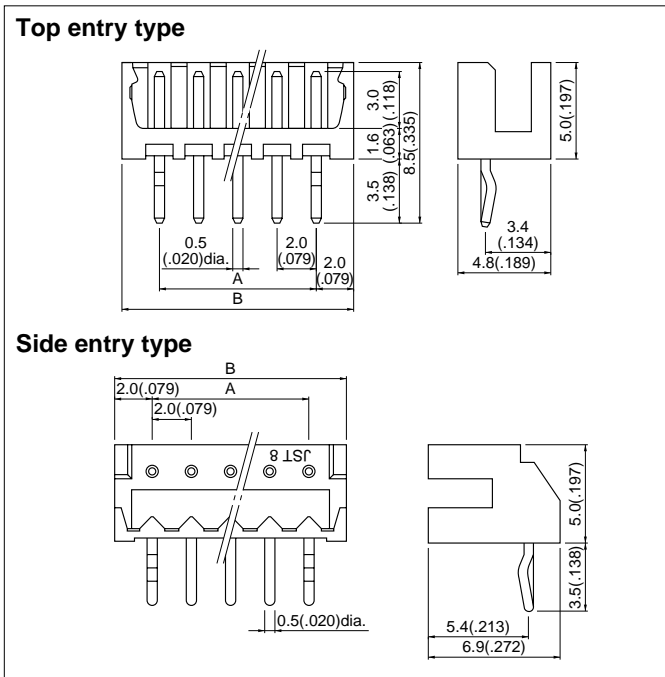


Cir- cuits	Model No.		Dimensions mm(in.)		Q'ty / box
	AWG #28 (blue)	AWG #26 (natural/white)	A	B	
2	<b>02DR-N-E8E</b>	<b>02DR-N-E6S</b>	2.0(.079)	6.0(.236)	2,000
3	<b>03DR-N-E8E</b>	<b>03DR-N-E6S</b>	4.0(.157)	8.0(.315)	2,000
4	<b>04DR-N-E8E</b>	<b>04DR-N-E6S</b>	6.0(.236)	10.0(.394)	1,000
5	<b>05DR-N-E8E</b>	<b>05DR-N-E6S</b>	8.0(.315)	12.0(.472)	1,000
6	<b>06DR-N-E8E</b>	<b>06DR-N-E6S</b>	10.0(.394)	14.0(.551)	1,000
7	<b>07DR-N-E8E</b>	<b>07DR-N-E6S</b>	12.0(.472)	16.0(.630)	1,000
8	<b>08DR-N-E8E</b>	<b>08DR-N-E6S</b>	14.0(.551)	18.0(.709)	1,000
9	<b>09DR-N-E8E</b>	<b>09DR-N-E6S</b>	16.0(.630)	20.0(.787)	500
10	<b>10DR-N-E8E</b>	<b>10DR-N-E6S</b>	18.0(.709)	22.0(.866)	500

### Material and Finish

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

## Shrouded header

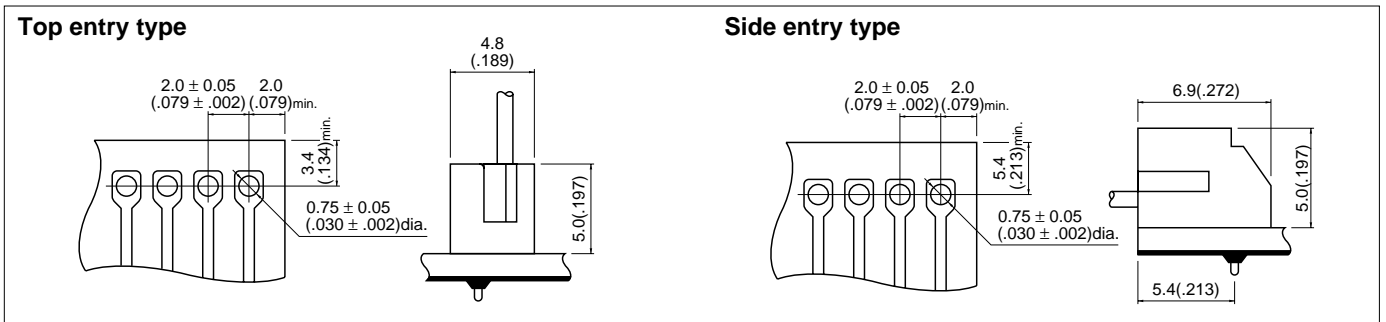


Cir- cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	<b>B02-DR</b>	<b>S02B-DR</b>	2.0(.079)	6.0(.236)	2,000	1,000
3	<b>B03-DR</b>	<b>S03B-DR</b>	4.0(.157)	8.0(.315)	1,000	1,000
4	<b>B04-DR</b>	<b>S04B-DR</b>	6.0(.236)	10.0(.394)	1,000	1,000
5	<b>B05-DR</b>	<b>S05B-DR</b>	8.0(.315)	12.0(.472)	1,000	1,000
6	<b>B06-DR</b>	<b>S06B-DR</b>	10.0(.394)	14.0(.551)	500	500
7	<b>B07-DR</b>	<b>S07B-DR</b>	12.0(.472)	16.0(.630)	500	500
8	<b>B08-DR</b>	<b>S08B-DR</b>	14.0(.551)	18.0(.709)	500	500
9	<b>B09-DR</b>	<b>S09B-DR</b>	16.0(.630)	20.0(.787)	500	500
10	<b>B10-DR</b>	<b>S10B-DR</b>	18.0(.709)	22.0(.866)	500	500

### Material and Finish

Pin: Brass, copper-undercoated, tin/lead-plated  
Wafer: Nylon 66, UL94V-0, ivory

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



### Note:

1. Tolerances are non-cumulative:  $\pm 0.05\text{mm} (\pm 0.002")$  for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.