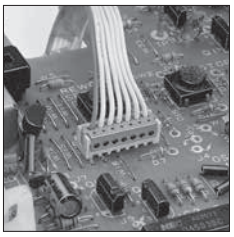
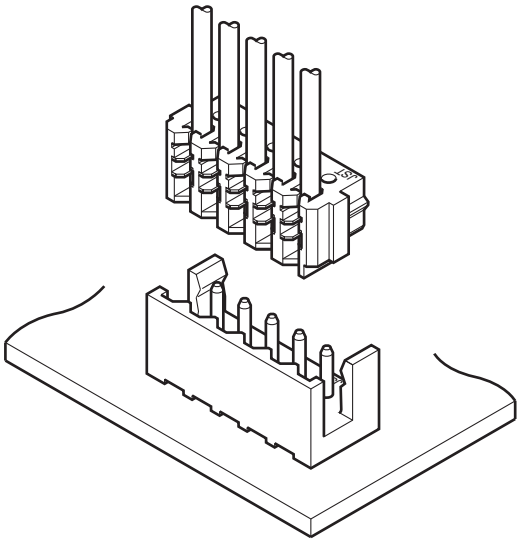


DR CONNECTOR

2.0 mm pitch/Wire-to-Board connectors/ IDC style (Insulation displacement connector) and Mating style



With a mounting height of 5.0 mm and a thickness of 4.8 mm (top entry type), it is the industry-leading space-saving 2.0 mm pitch mating type wire-to-board connector.

■ Features

• Space saving

It is a mounting height of 5.0 mm and thicknesses of 4.8 mm (top entry type) and 6.9 mm (side entry type), and both the top and side entry types realize the industry-leading space-saving 2.0 mm pitch mating type wire-to-board connector.

• Twin U-slot insulation displacement (ID) section

The connection with wire is an insulation displacement, so that the contact size is shortened and socket size is reduced. The contact ID section has a twin U-slot structure to ensure reliable connection.

• Double-leaf contact part

The contact mating part has a double-leaf structure formed by bending a long size contact, which has excellent spring characteristics.

• Elaborate strain relief

Designed optimally for the applicable wire diameter, the strain relief reduces mechanical stress through the wire to the insulation displacement part.
In the mated condition, the unevenness of the strain relief is in close contact with the inner wall of the housing of the header, improving resistance to irregular external forces.

■ Standards

:Recognized E 60389
:Certified LR 20812

■ Specifications

- Current rating: 1.0 A AC/DC (AWG #26)
- Voltage rating: 100 V AC/DC
- Temperature range: −25℃ to +85℃
  (including temperature rise in applyingelectrical 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 800 VAC for one minute.
- Applicable wire: UL style No. / 1571, 1061
  (Contact JST for other UL styles.)
  Conductor size ／ AWG #28, AWG #26
  Conductor composition ／ 7 strands, tin-coated
  Insulation O.D. ／ φ0.9 mm to φ1.0 mm
- Applicable PC board thickness: 1.2 mm to 1.6 mm

* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

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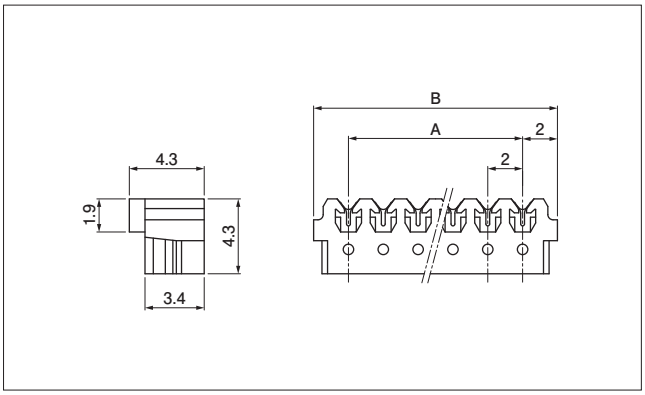
Socket



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	AWG #28 applicable product	AWG #26 applicable product	A	B	
2	**02DR-N-E8E-P**	**02DR-N-E6S-P**	2.0	6.0	2,000
3	**03DR-N-E8E-P**	**03DR-N-E6S-P**	4.0	8.0	2,000
4	**04DR-N-E8E-P**	**04DR-N-E6S-P**	6.0	10.0	1,000
5	**05DR-N-E8E-P**	**05DR-N-E6S-P**	8.0	12.0	1,000
6	**06DR-N-E8E-P**	**06DR-N-E6S-P**	10.0	14.0	1,000
7	—	**07DR-N-E6S-P**	12.0	16.0	1,000
8	—	**08DR-N-E6S-P**	14.0	18.0	1,000
9	—	**09DR-N-E6S-P**	16.0	20.0	500
10	**10DR-N-E8E-P**	**10DR-N-E6S-P**	18.0	22.0	500

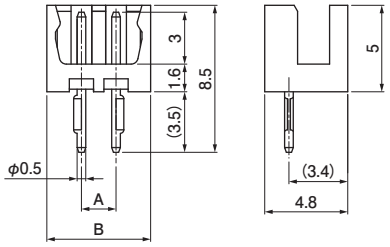
Material and Surface finish, etc.

Contact: Phosphor bronze, tin-plated
Housing: PA 66, UL94V-0
blue/ AWG #28 applicable product
natural (white)/ AWG #26 applicable product

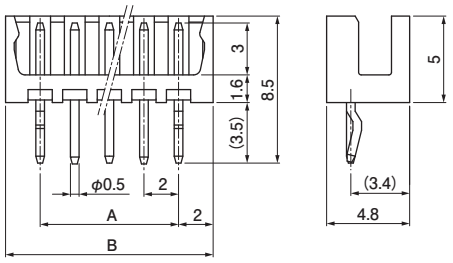
Header

Top entry type

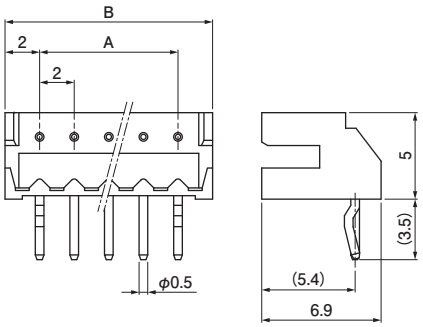
<2 circuits>



<3 circuits or more>



Side entry type



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B02-DR**	**S02B-DR**	2.0	6.0	2,000	1,000
3	**B03-DR**	**S03B-DR**	4.0	8.0	1,000	1,000
4	**B04-DR**	**S04B-DR**	6.0	10.0	1,000	1,000
5	**B05-DR**	**S05B-DR**	8.0	12.0	1,000	1,000
6	**B06-DR**	**S06B-DR**	10.0	14.0	500	500
7	**B07-DR**	**S07B-DR**	12.0	16.0	500	500
8	**B08-DR**	**S08B-DR**	14.0	18.0	500	500
9	**B09-DR**	**S09B-DR**	16.0	20.0	500	500
10	**B10-DR**	**S10B-DR**	18.0	22.0	500	500

Material and Surface finish, etc.

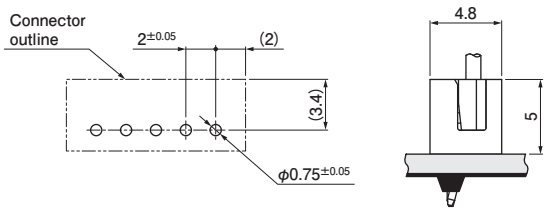
Pin: Brass, copper-undercoated, tin-plated
Wafer: PA 66, UL94V-0, ivory

Note: This product displays (LF)(SN) on a label.

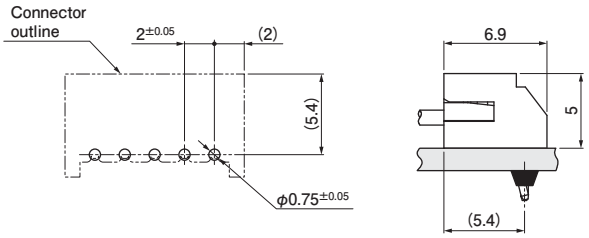
JST

PC board layout and Assembly layout

Top entry type



Side entry type



Note: 1. The figure of PC board layout is the figure viewed from the connector mounting side.
2. Tolerance for the PCB hole pitch shall be ± 0.05 and shall not accumulate.
3. Hole dimensions differ according to the type of PC board and piercing method.
The above dimensions are reference values. Please contact JST for details.

Model number allocation

Socket

02 DR - N - E 8 E - P

- No. of circuits
- Series name
- Material: PA 66
- Wire connection form: End type
- Applicable wire: 8···AWG #28
  6···AWG #26
- Color:
  E···Blue/ For AWG #28 applicable product
  S···Natural (White)/ For AWG #26 applicable product
- Surface finish: Tin-plated

Header/ Top entry type

B 02 - DR

- Header type: Top entry type
- No. of circuits
- Series name

Header/ Side entry type

S 02 B - DR

- Header type: Side entry type
- No. of circuits
- Assembly product
- Series name