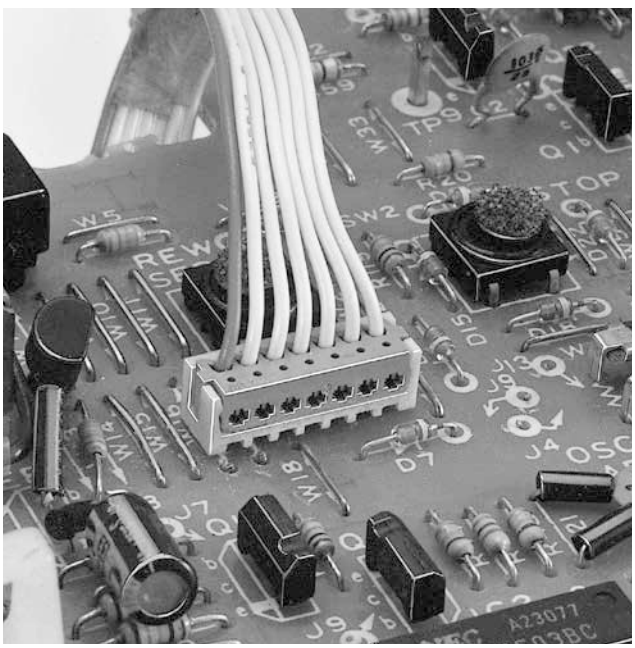
JST

IDC

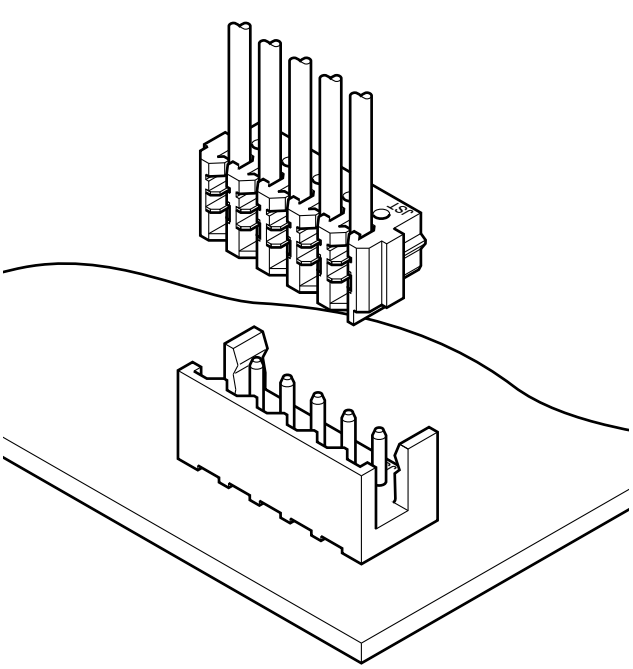
2.0 mm
pitch

DR CONNECTOR

Disconnectable Insulation displacement connectors



Measuring 2.0 mm in pitch, only 5.0 mm in mounting height, and 4.8 mm 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 2.0 mm in pitch, 5.0 mm in mounting height, and 4.8 mm in thickness.

• Twin U-slot insulation displacement section

The insulation displacement section connected to each wire consists of twin U-slot, 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

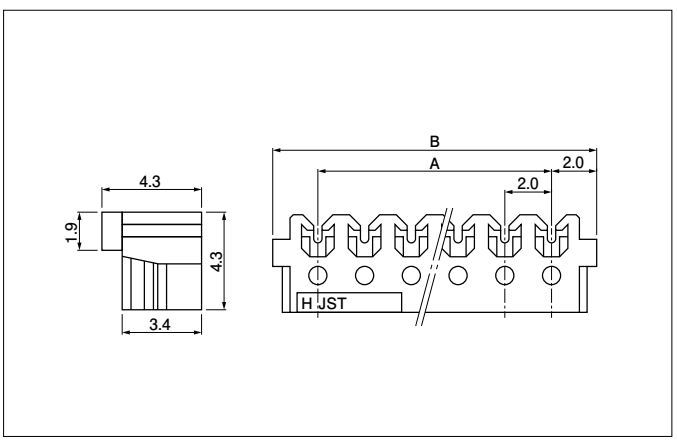
- Current rating: 1.0 A AC/DC (AWG #26)
- Voltage rating: 100 V AC/DC
- Temperature range: −25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 800 VAC/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 1.0 mm
- Applicable PC board thickness: 1.2 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.

Standards

Recognized E60389
Certified LR20812

Receptacle



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box
	AWG #28 (blue)	AWG #26 (natural/white)	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-E8E-P	07DR-N-E6S-P	12.0	16.0	1,000
8	08DR-N-E8E-P	08DR-N-E6S-P	14.0	18.0	1,000
9	09DR-N-E8E-P	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 Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0

RoHS2 compliance

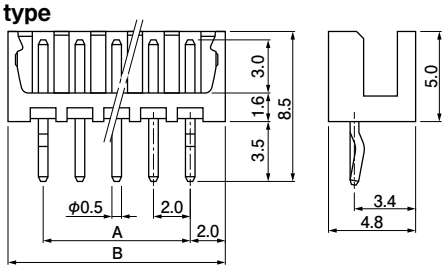
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DR- N- E8E-P**

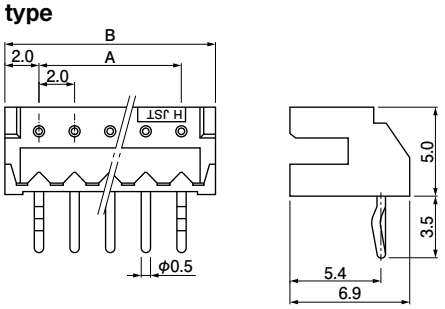
standard color AWG#28: E...blue AWG#26: S...natural (white)
K...black R...red

Shrouded header

Top entry type



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 Finish
Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, ivory

RoHS2 compliance This product displays (LF)(SN) on a label.

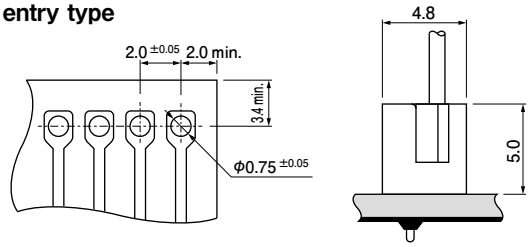
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02-DR- OO**

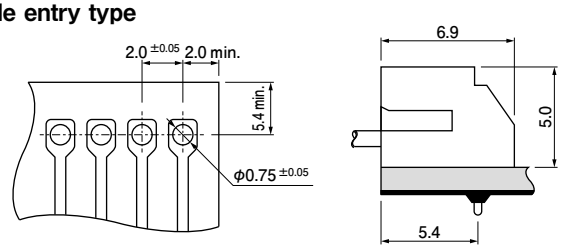
(blank)...ivory K...black R...red E...blue S...white

PC board layout and Assembly layout

Top entry type



Side entry type



Note: 1. The above figure is the figure viewed from soldering side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.