Based upon JST’s field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.

PC board layout and Assembly layout

Single-row shrouded header
<Through-hole type (viewed from component side)>

Top entry type

Side entry type

Reverse type: Circuit No.1
Normal type: Circuit No.1

Reverse type: Circuit No.1
Normal type: Circuit No.1

Note: 1. Tolerances are non-cumulative: ±0.05 mm for all centers.
2. 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.

<SMType (viewed from soldering side)>

Top entry type

Side entry type

Reverse type: Circuit No.1
Normal type: Circuit No.1

Reverse type: Circuit No.1
Normal type: Circuit No.1

Note: 1. Tolerances are non-cumulative: ±0.05 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Specifications

- Multi-IDC-harnesses are possible
- Various types of connectors
- Cost reduction
- Two types of circuit layouts

Standards

- Recognized E60389
- Certified LR20812
- R75087: PH, PHN connectors

Based upon JST’s field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.
PC board layout and Assembly layout

Double-row shrouded header (viewed from component side)

Top entry type

With locks

Side entry type

Note: 1. Tolerances are non-cumulative: ±0.05 mm for all centers.
2. 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.

Insulation displacement connector (Receptacle)

Circuits | Model No. | Dimensions (mm) | Qty/Box
---|---|---|---
2 | 02KR-6H-P | 02KR-6H-PC | 2.0 x 6.0 | 2,000
3 | 03KR-6H-P | 03KR-6H-PC | 4.0 x 8.0 | 2,000
4 | 04KR-6H-P | 04KR-6H-PC | 6.0 x 10.0 | 2,000
5 | 05KR-6H-P | 05KR-6H-PC | 8.0 x 12.0 | 2,000
6 | 06KR-6H-P | 06KR-6H-PC | 10.0 x 14.0 | 2,000
7 | 07KR-6H-P | 07KR-6H-PC | 12.0 x 16.0 | 1,000
8 | 08KR-6H-P | 08KR-6H-PC | 14.0 x 18.0 | 1,000
9 | 09KR-6H-P | 09KR-6H-PC | 16.0 x 20.0 | 1,000
10 | 10KR-6H-P | 10KR-6H-PC | 18.0 x 22.0 | 1,000
11 | 11KR-6H-P | 11KR-6H-PC | 20.0 x 24.0 | 1,000
12 | 12KR-6H-P | 12KR-6H-PC | 22.0 x 26.0 | 1,000
13 | 13KR-6H-P | 13KR-6H-PC | 24.0 x 28.0 | 500
14 | 14KR-6H-P | 14KR-6H-PC | 26.0 x 30.0 | 500
15 | 15KR-6H-P | 15KR-6H-PC | 28.0 x 32.0 | 500
16 | 16KR-6H-P | 16KR-6H-PC | 30.0 x 34.0 | 500

Material and Finish

<table>
<thead>
<tr>
<th>Applicable wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL1571, 1061 (Contact JST for other UL styles)</td>
</tr>
<tr>
<td>AWG #28, #26</td>
</tr>
</tbody>
</table>

Conductor: 7 strands, tin-plated annealed copper Insulation O.D.: 0.9 to 1.0 mm

RoHS compliance
## KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR

### Crimp style connector (Contact)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Applicable wire</th>
<th>Insulation O.D.</th>
<th>Q’ty/</th>
<th>Material and Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm²</td>
<td>(mm)</td>
<td>reel</td>
<td></td>
</tr>
<tr>
<td>SPH-002T-P0.5L</td>
<td>0.08~0.22</td>
<td>0.8~1.5</td>
<td>8,000</td>
<td></td>
</tr>
</tbody>
</table>

**RoHS compliance**

Note: SPH-002T-P0.5S is also available.

### Crimp style connector (Housing)

#### Normal type (2 circuits)

#### (3 to 16 circuits)

#### Reverse type (2 circuits)

#### (3 to 16 circuits)

**Material**

PA 66, UL94 V-0, gray

**RoHS compliance**

Note: *Strip-crimp applicator

SPH-002T-P0.5L

<table>
<thead>
<tr>
<th>Contact</th>
<th>Crimping machine</th>
<th>Applicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKS-L</td>
<td>MK/SBH-002-5SL</td>
<td>APLMK SBH002-5SL</td>
</tr>
<tr>
<td>*MKS-SC</td>
<td>SC/SBH-002-5SL</td>
<td>APLSC SBH002-5SL</td>
</tr>
</tbody>
</table>

Note: *Strip-crimp applicator

Downloaded from Arrow.com.
### KR FAMILY SERIES/KRW・KR・PHN・TR CONNECTOR

#### Single-row shrouded header (Through-hole type)

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Normal type Model No.</th>
<th>Dimension (mm)</th>
<th>Qty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B2B-PH-KBL-H</td>
<td>2.0 x 5.9</td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-PH-KBL-H</td>
<td>4.0 x 7.9</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>B4B-PH-KBL-H</td>
<td>6.0 x 9.9</td>
<td>1,000</td>
</tr>
<tr>
<td>5</td>
<td>B5B-PH-KBL-H</td>
<td>8.0 x 11.9</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>B6B-PH-KBL-H</td>
<td>10.0 x 13.9</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>B7B-PH-KBL-H</td>
<td>12.0 x 15.9</td>
<td>500</td>
</tr>
<tr>
<td>8</td>
<td>B8B-PH-KBL-H</td>
<td>14.0 x 17.9</td>
<td>500</td>
</tr>
<tr>
<td>9</td>
<td>B9B-PH-KBL-H</td>
<td>16.0 x 19.9</td>
<td>500</td>
</tr>
<tr>
<td>10</td>
<td>B10B-PH-KBL-H</td>
<td>18.0 x 21.9</td>
<td>500</td>
</tr>
<tr>
<td>11</td>
<td>B11B-PH-KBL-H</td>
<td>20.0 x 23.9</td>
<td>500</td>
</tr>
<tr>
<td>12</td>
<td>B12B-PH-KBL-H</td>
<td>22.0 x 25.9</td>
<td>500</td>
</tr>
<tr>
<td>13</td>
<td>B13B-PH-KBL-H</td>
<td>24.0 x 27.9</td>
<td>500</td>
</tr>
<tr>
<td>14</td>
<td>B14B-PH-KBL-H</td>
<td>26.0 x 29.9</td>
<td>500</td>
</tr>
<tr>
<td>15</td>
<td>B15B-PH-KBL-H</td>
<td>28.0 x 31.9</td>
<td>500</td>
</tr>
<tr>
<td>16</td>
<td>B16B-PH-KBL-H</td>
<td>30.0 x 33.9</td>
<td>500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Reverse type Model No.</th>
<th>Dimension (mm)</th>
<th>Qty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B2B-PH-KBL-H</td>
<td>2.0 x 5.9</td>
<td>1,000</td>
</tr>
<tr>
<td>3</td>
<td>B3B-PH-KBL-H</td>
<td>4.0 x 7.9</td>
<td>1,000</td>
</tr>
<tr>
<td>4</td>
<td>B4B-PH-KBL-H</td>
<td>6.0 x 9.9</td>
<td>1,000</td>
</tr>
<tr>
<td>5</td>
<td>B5B-PH-KBL-H</td>
<td>8.0 x 11.9</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>B6B-PH-KBL-H</td>
<td>10.0 x 13.9</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>B7B-PH-KBL-H</td>
<td>12.0 x 15.9</td>
<td>500</td>
</tr>
<tr>
<td>8</td>
<td>B8B-PH-KBL-H</td>
<td>14.0 x 17.9</td>
<td>500</td>
</tr>
<tr>
<td>9</td>
<td>B9B-PH-KBL-H</td>
<td>16.0 x 19.9</td>
<td>500</td>
</tr>
<tr>
<td>10</td>
<td>B10B-PH-KBL-H</td>
<td>18.0 x 21.9</td>
<td>500</td>
</tr>
<tr>
<td>11</td>
<td>B11B-PH-KBL-H</td>
<td>20.0 x 23.9</td>
<td>500</td>
</tr>
<tr>
<td>12</td>
<td>B12B-PH-KBL-H</td>
<td>22.0 x 25.9</td>
<td>500</td>
</tr>
<tr>
<td>13</td>
<td>B13B-PH-KBL-H</td>
<td>24.0 x 27.9</td>
<td>500</td>
</tr>
<tr>
<td>14</td>
<td>B14B-PH-KBL-H</td>
<td>26.0 x 29.9</td>
<td>500</td>
</tr>
<tr>
<td>15</td>
<td>B15B-PH-KBL-H</td>
<td>28.0 x 31.9</td>
<td>500</td>
</tr>
<tr>
<td>16</td>
<td>B16B-PH-KBL-H</td>
<td>30.0 x 33.9</td>
<td>500</td>
</tr>
</tbody>
</table>

**Material and Finish**

- **Post**: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer**: PA 66, UL94V-0, gray

**RoHS compliance**

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

Note:
1. Top entry type headers without a bosses are also available.
2. PH connector header [B(  )B-PH-K-S, S(  )B-PH-K-S] can be also used. (  ) stands for circuits No.

For availability, delivery and minimum order quantity, contact JST.

For reference, as the color identification, the following alphabet shall be put in the underlined part.

- H...gray
- S...white
- Y...yellow
- R...red
- N...brown
- K...black
- (blank)...gray (normal side entry type only)

---

Downloaded from Arrow.com.
**Single-row shrouded header (SMT type)**

### Top entry type

- **Reverse type Model No.:** B2B-PH-SM4-TB
- **Dimensions (mm):** A: 2.0, B: 2.95, Qty/reel: 1,000
- **Reverse type Model No.:** B3B-PH-SM4-TB
- **Dimensions (mm):** A: 4.0, B: 7.9, Qty/reel: 1,000
- **Reverse type Model No.:** B4B-PH-SM4-TB
- **Dimensions (mm):** A: 6.0, B: 11.9, Qty/reel: 1,000
- **Reverse type Model No.:** B5B-PH-SM4-TB
- **Dimensions (mm):** A: 8.0, B: 13.9, Qty/reel: 1,000
- **Reverse type Model No.:** B6B-PH-SM4-TB
- **Dimensions (mm):** A: 10.0, B: 15.9, Qty/reel: 1,000
- **Reverse type Model No.:** B7B-PH-SM4-TB
- **Dimensions (mm):** A: 12.0, B: 17.9, Qty/reel: 1,000
- **Reverse type Model No.:** B8B-PH-SM4-TB
- **Dimensions (mm):** A: 14.0, B: 19.9, Qty/reel: 1,000
- **Reverse type Model No.:** B9B-PH-SM4-TB
- **Dimensions (mm):** A: 16.0, B: 21.9, Qty/reel: 1,000
- **Reverse type Model No.:** B10B-PH-SM4-TB
- **Dimensions (mm):** A: 18.0, B: 23.9, Qty/reel: 1,000
- **Reverse type Model No.:** B11B-PH-SM4-TB
- **Dimensions (mm):** A: 20.0, B: 25.9, Qty/reel: 1,000
- **Reverse type Model No.:** B12B-PH-SM4-TB
- **Dimensions (mm):** A: 22.0, B: 27.9, Qty/reel: 1,000
- **Reverse type Model No.:** B13B-PH-SM4-TB
- **Dimensions (mm):** A: 24.0, B: 29.9, Qty/reel: 1,000
- **Reverse type Model No.:** B14B-PH-SM4-TB
- **Dimensions (mm):** A: 26.0, B: 31.9, Qty/reel: 1,000
- **Reverse type Model No.:** B15B-PH-SM4-TB
- **Dimensions (mm):** A: 28.0, B: 33.9, Qty/reel: 1,000
- **Reverse type Model No.:** B16B-PH-SM4-TB
- **Dimensions (mm):** A: 30.0, B: 35.9, Qty/reel: 1,000

### Material and Finish

- **Post:** Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer:** PA 6T, UL94V-0, natural (ivory)
- **Solder tab:** Brass, copper-undercoated, tin-plated (reflow treatment)

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

**Note:** Top entry type headers with suction tape are also available.

---

### Side entry type

- **Reverse type Model No.:** S2B-PH-SM4-TB
- **Dimensions (mm):** A: 2.0, B: 2.95, Qty/reel: 1,000
- **Reverse type Model No.:** S3B-PH-SM4-TB
- **Dimensions (mm):** A: 4.0, B: 7.9, Qty/reel: 1,000
- **Reverse type Model No.:** S4B-PH-SM4-TB
- **Dimensions (mm):** A: 6.0, B: 11.9, Qty/reel: 1,000
- **Reverse type Model No.:** S5B-PH-SM4-TB
- **Dimensions (mm):** A: 8.0, B: 13.9, Qty/reel: 1,000
- **Reverse type Model No.:** S6B-PH-SM4-TB
- **Dimensions (mm):** A: 10.0, B: 15.9, Qty/reel: 1,000
- **Reverse type Model No.:** S7B-PH-SM4-TB
- **Dimensions (mm):** A: 12.0, B: 17.9, Qty/reel: 1,000
- **Reverse type Model No.:** S8B-PH-SM4-TB
- **Dimensions (mm):** A: 14.0, B: 19.9, Qty/reel: 1,000
- **Reverse type Model No.:** S9B-PH-SM4-TB
- **Dimensions (mm):** A: 16.0, B: 21.9, Qty/reel: 1,000
- **Reverse type Model No.:** S10B-PH-SM4-TB
- **Dimensions (mm):** A: 18.0, B: 23.9, Qty/reel: 1,000
- **Reverse type Model No.:** S11B-PH-SM4-TB
- **Dimensions (mm):** A: 20.0, B: 25.9, Qty/reel: 1,000
- **Reverse type Model No.:** S12B-PH-SM4-TB
- **Dimensions (mm):** A: 22.0, B: 27.9, Qty/reel: 1,000
- **Reverse type Model No.:** S13B-PH-SM4-TB
- **Dimensions (mm):** A: 24.0, B: 29.9, Qty/reel: 1,000
- **Reverse type Model No.:** S14B-PH-SM4-TB
- **Dimensions (mm):** A: 26.0, B: 31.9, Qty/reel: 1,000
- **Reverse type Model No.:** S15B-PH-SM4-TB
- **Dimensions (mm):** A: 28.0, B: 33.9, Qty/reel: 1,000
- **Reverse type Model No.:** S16B-PH-SM4-TB
- **Dimensions (mm):** A: 30.0, B: 35.9, Qty/reel: 1,000

### Material and Finish

- **Post:** Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- **Wafer:** PA 6T, UL94V-0, natural (ivory)
- **Solder tab:** Brass, copper-undercoated, tin-plated (reflow treatment)

**RoHS compliance** This product displays (LF)(SN) on a label.
**Double-row shrouded Header**

Top entry type

Side entry type

**Double-row shrouded Header (with locks)**

**Circuits**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Normal type</th>
<th>Reverse type</th>
<th>Dimensions (mm)</th>
<th>Q'ty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>Top entry type</td>
<td>Side entry type</td>
<td>Top entry type</td>
</tr>
<tr>
<td>16</td>
<td>B16-KRW</td>
<td>B16-KRWHK</td>
<td>16.0</td>
<td>24.4</td>
</tr>
<tr>
<td>18</td>
<td>B18-KRW</td>
<td>B18-KRWHK</td>
<td>16.0</td>
<td>24.4</td>
</tr>
<tr>
<td>20</td>
<td>B20-KRW</td>
<td>B20-KRWHK</td>
<td>18.0</td>
<td>26.4</td>
</tr>
<tr>
<td>22</td>
<td>B22-KRW</td>
<td>B22-KRWHK</td>
<td>18.0</td>
<td>26.4</td>
</tr>
<tr>
<td>24</td>
<td>B24-KRW</td>
<td>B24-KRWHK</td>
<td>20.0</td>
<td>29.4</td>
</tr>
<tr>
<td>26</td>
<td>B26-KRW</td>
<td>B26-KRWHK</td>
<td>20.0</td>
<td>29.4</td>
</tr>
<tr>
<td>28</td>
<td>B28-KRW</td>
<td>B28-KRWHK</td>
<td>20.0</td>
<td>29.4</td>
</tr>
<tr>
<td>30</td>
<td>B30-KRW</td>
<td>B30-KRWHK</td>
<td>20.0</td>
<td>29.4</td>
</tr>
<tr>
<td>32</td>
<td>B32-KRW</td>
<td>B32-KRWHK</td>
<td>20.0</td>
<td>29.4</td>
</tr>
</tbody>
</table>

**Material and Finish**

- Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Wafer: PA 66, UL94V-0, gray

**RoHS compliance**

- This product displays (LF)(SN) on a label.

**Note:**

1. Top entry type headers with bosses or without clinched tails are also available.
2. The products listed above are supplied packed in tray.
3. Not UL/CSA/TÜV approved.

**For reference**

As the color identification, the following alphabet shall be put in the underlined part.

- M...green  H...gray  N...brown

For availability, delivery and minimum order quantity, contact JST.

**ex.**

- B10B-KRWHK

M...green  H...gray  N...brown

---

**Circuits**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Model No. with locks</th>
<th>Dimensions (mm)</th>
<th>Q'ty/box</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>Top entry type</td>
<td>Side entry type</td>
</tr>
<tr>
<td>10</td>
<td>B10B-KRWFK1</td>
<td>B10B-KRWHFK1</td>
<td>8.0</td>
</tr>
<tr>
<td>12</td>
<td>B12B-KRWFK1</td>
<td>B12B-KRWHFK1</td>
<td>10.0</td>
</tr>
<tr>
<td>14</td>
<td>B14B-KRWFK1</td>
<td>B14B-KRWHFK1</td>
<td>12.0</td>
</tr>
<tr>
<td>16</td>
<td>B16B-KRWFK1</td>
<td>B16B-KRWHFK1</td>
<td>14.0</td>
</tr>
<tr>
<td>18</td>
<td>B18B-KRWFK1</td>
<td>B18B-KRWHFK1</td>
<td>16.0</td>
</tr>
<tr>
<td>20</td>
<td>B20B-KRWFK1</td>
<td>B20B-KRWHFK1</td>
<td>18.0</td>
</tr>
<tr>
<td>22</td>
<td>B22B-KRWFK1</td>
<td>B22B-KRWHFK1</td>
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<td>24</td>
<td>B24B-KRWFK1</td>
<td>B24B-KRWHFK1</td>
<td>22.0</td>
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<tr>
<td>26</td>
<td>B26B-KRWFK1</td>
<td>B26B-KRWHFK1</td>
<td>24.0</td>
</tr>
<tr>
<td>28</td>
<td>B28B-KRWFK1</td>
<td>B28B-KRWHFK1</td>
<td>26.0</td>
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<tr>
<td>30</td>
<td>B30B-KRWFK1</td>
<td>B30B-KRWHFK1</td>
<td>28.0</td>
</tr>
<tr>
<td>32</td>
<td>B32B-KRWFK1</td>
<td>B32B-KRWHFK1</td>
<td>30.0</td>
</tr>
</tbody>
</table>

**Material and Finish**

- Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Wafer: PA 66, UL94V-0, gray

**RoHS compliance**

- This product displays (LF)(SN) on a label.

**Note:**

1. The products listed above are supplied packed in tray.
2. Not UL/CSA/TÜV approved.
3. The applicable holder is "KRWH-( )-( )-( )-1" only.

**For reference**

As the color identification, the following alphabet shall be put in the underlined part.

- H...gray  Y...yellow  R...red  N...brown
- M...green  K...black
**KR FAMILY SERIES/KRW·KR·PHN·TR CONNECTOR**

**KRW connector Holder**

---

**KRW connector Holder (for header with locks)**

---

**TR connector (Unit for wire-to-wire connection)**

---

---

**RoHS compliance**

**Note:** Not UL/CSA/TÜV approved.

<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.

**TR connectors without secure locking device are also available.**

---

---

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**Downloaded from Arrow.com.**
TRW connector (Unit for wire-to-wire connection)

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Model No.</th>
<th>Dimensions (mm)</th>
<th>Qty/box</th>
</tr>
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<td>Reverse type</td>
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<td>BU16P-TRW-PC-H</td>
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<td>BU32P-TRW-PC-H</td>
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</table>

Material and Finish

- Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
- Housing: PA 66, UL94V-0, gray

RoHS compliance

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

For reference:

- The color identification: The following alphabet shall be put in the underlined part.
- For availability, delivery and minimum order quantity, contact JST.

ex. BU16P-TRW-P-H

H…gray Y…yellow R…red N…brown
S…natural (white) M…green

Panel layout