

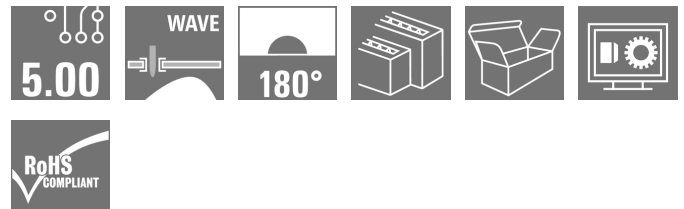
**RSV1,6 LB6 GR 3,2 SN****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

Rectangular plug-in female connector with solder contacts for PCB applications. High connection density achieved by using several rows and crimp contacts in the mating connector. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

**General ordering data**

|              |                                                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female header, closed side, THT solder connection, 5.00 mm, Number of poles: 6, 180°, Solder pin length (l): 3.2 mm, tinned, Pebble grey, Box |
| Order No.    | <a href="#">1441300000</a>                                                                                                                                           |
| Type         | RSV1,6 LB6 GR 3,2 SN                                                                                                                                                 |
| GTIN (EAN)   | 4008190125097                                                                                                                                                        |
| Qty.         | 50 pc(s).                                                                                                                                                            |
| Product data | IEC: 500 V / 14 A<br>UL: 300 V / 10 A                                                                                                                                |
| Packaging    | Box                                                                                                                                                                  |

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## Technical data

## Dimensions and weights

|                          |           |                 |            |
|--------------------------|-----------|-----------------|------------|
| Depth                    | 17.6 mm   | Depth (inches)  | 0.693 inch |
| Height                   | 14.3 mm   | Height (inches) | 0.563 inch |
| Height of lowest version | 14.3 mm   | Width           | 18.8 mm    |
| Width (inches)           | 0.74 inch | Net weight      | 4.78 g     |

## Environmental Product Compliance

|            |                |      |                                      |
|------------|----------------|------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 | SCIP | 68d3d3f5-e017-411e-997f-7ad2b75c9062 |
|------------|----------------|------|--------------------------------------|

## System specifications

|                                                   |                              |                                 |                  |
|---------------------------------------------------|------------------------------|---------------------------------|------------------|
| Product family                                    | OMNIMATE Signal - series RSV | Type of connection              | Board connection |
| Mounting onto the PCB                             | THT solder connection        | Pitch in mm (P)                 | 5 mm             |
| Pitch in inches (P)                               | 0.197 inch                   | Outgoing elbow                  | 180°             |
| Number of poles                                   | 6                            | Solder pin length (l)           | 3.2 mm           |
| Solder pin dimensions                             | d = 0.97 mm                  | Solder eyelet hole diameter (D) | 1.3 mm           |
| Solder eyelet hole diameter tolerance (D)+ 0,1 mm |                              | L1 in mm                        | 10 mm            |
| L1 in inches                                      | 0.394 inch                   | Number of rows                  | 2                |
| Pin series quantity                               | 2                            |                                 |                  |

## Material data

|                                       |              |                                       |             |
|---------------------------------------|--------------|---------------------------------------|-------------|
| Insulating material                   | PA 66/6      | Colour                                | Pebble grey |
| Colour chart (similar)                | RAL 7032     | UL 94 flammability rating             | V-0         |
| Contact material                      | Copper alloy | Contact surface                       | tinned      |
| Storage temperature, min.             | -40 °C       | Storage temperature, max.             | 70 °C       |
| Operating temperature, min.           | -50 °C       | Operating temperature, max.           | 100 °C      |
| Temperature range, installation, min. | -25 °C       | Temperature range, installation, max. | 100 °C      |

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 14 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 10 A                   | Rated current, min. number of poles (Tu=40°C)                         | 12 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 8.5 A                  | Rated voltage for surge voltage class / pollution degree II/2         | 500 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV                 | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV            |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

## Rated data acc. to CSA

|                                   |                                                                                     |                                   |          |
|-----------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|----------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 53975-13 |
| Rated voltage (Use group C / CSA) | 300 V                                                                               | Rated current (Use group C / CSA) | 13 A     |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate.              |                                   |          |

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## Technical data

## Packing

|           |       |            |        |
|-----------|-------|------------|--------|
| Packaging | Box   | VPE length | 153 mm |
| VPE width | 90 mm | VPE height | 38 mm  |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002637    | ETIM 7.0    | EC002637    |
| ETIM 8.0    | EC002637    | ECLASS 9.0  | 27-44-04-02 |
| ECLASS 9.1  | 27-44-04-02 | ECLASS 10.0 | 27-44-04-02 |
| ECLASS 11.0 | 27-46-02-01 | ECLASS 12.0 | 27-46-02-01 |

## Important note

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.                                                                                                                                                                                                      |
| Notes          | <ul style="list-style-type: none"> <li>• Additional variants on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Spacing between rows: see hole layout</li> <li>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |

## Approvals

Approvals



|                       |            |
|-----------------------|------------|
| ROHS                  | Conform    |
| UL File Number Search | UL Website |
| Certificate No. (UR)  | E92202     |

## Downloads

|                                             |                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                 |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                 |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                                                                                    |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                        |
| Brochures                                   | <a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a><br><a href="#">PO OMNIMATE EN</a> |

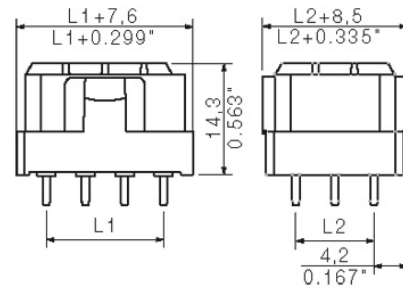
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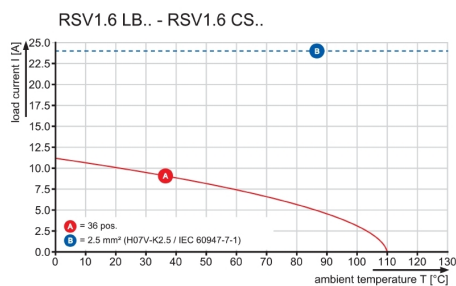
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# Drawings

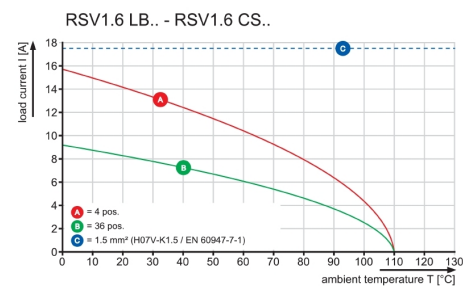
## Dimensional drawing



## Graph



## Graph



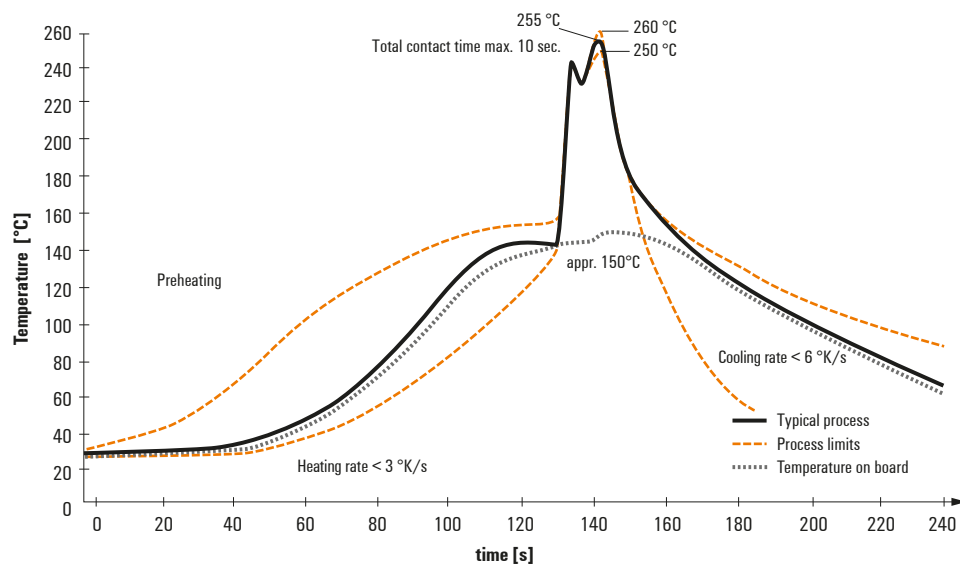
## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of  $260 \text{ °C}$ . In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

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