

RSV1,6 LSF24 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 male and 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, male header, Flange, THT solder connection, 5.00 mm, Number of poles: 24, 180°, Solder pin length (l): 3.2 mm, tinned, Pebble grey, Box |
| Order No. | 1445900000 |
| Type | RSV1,6 LSF24 GR 3,2 SN |
| GTIN (EAN) | 4008190175382 |
| Qty. | 20 pc(s). |
| Product data | IEC: 500 V / 14 A UL: 300 V / 10 A |
| Packaging | Box |

Creation date August 28, 2024 12:37:16 PM CEST

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|-----------------|------------|
| Depth | 32.6 mm | Depth (inches) | 1.283 inch |
| Height | 11.8 mm | Height (inches) | 0.465 inch |
| Height of lowest version | 11.8 mm | Width | 28.8 mm |
| Width (inches) | 1.134 inch | Net weight | 10.95 g |

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 " | Outgoing elbow | 180° |
| Number of poles | 24 | Number of solder pins per pole | 1 |
| 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 | 25 mm | L1 in inches | 0.984 " |
| Number of rows | 4 | Pin series quantity | 4 |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch, plugged | Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged |
| Can be coded | Yes | Plugging force/pole, max. | 9 N |
| Pulling force/pole, max. | 18 N | | |

Material data

| | | | |
|---------------------------------------|----------|---------------------------------------|-------------|
| Insulating material | PA 66/6 | Colour | Pebble grey |
| Colour chart (similar) | RAL 7032 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | UL 94 flammability rating | V-0 |
| Contact material | Cu-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

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E92202

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Packing

| | | | |
|-----------|--------|------------|--------|
| Packaging | Box | VPE length | 179 mm |
| VPE width | 109 mm | VPE height | 47 mm |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | 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 | ECLASS 13.0 | 27-46-02-01 |
| ECLASS 14.0 | 27-46-02-01 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 68d3d3f5-e017-411e-997f-7ad2b75c9062 |
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |

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

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- 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.
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Approvals

Approvals



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

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Technical data

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of the Manufacturer |
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |
| Brochures | MB DEVICE MANUF. EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN |

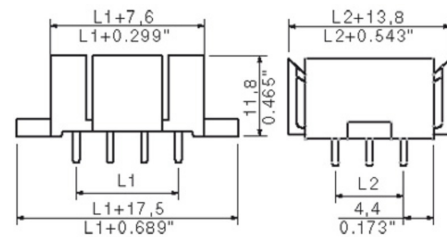
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Drawings

Dimensional drawing



Graph



Graph



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Accessories

Coding elements

**Only connects what is supposed to be connected:
the right connection at the right place.**

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

| Type | RSV1,6 KO | Version | Product data | Packaging |
|------------|----------------------------|---|--------------|-----------|
| Order No. | 1567430000 | PCB plug-in connector, Accessories, Coding element, black, Number | | Box |
| GTIN (EAN) | 4008190169756 | of poles: 1 | | |
| Qty. | 50 pc(s). | | | |

Recommended wave soldering profiles

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Germany
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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°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.