

**OMNIMATE Signal - series LL**  
**LL 9.52/03/90 5.0SN OR BX**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

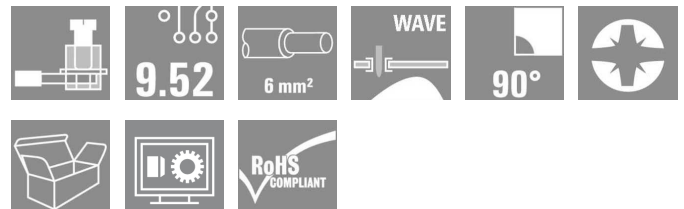
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This PCB terminal provides connections for 1000 V, 6 mm<sup>2</sup> conductor cross-section and 32 A with proven clamping yoke connection at 9.52 mm pitch, conductor outlet direction in 90° design.

- 0.18 - 6.0mm<sup>2</sup> (IEC) / 26 - 10 AWG (UL)
- 1000 V (IEC) / 300 V (UL)
- 32 A (IEC) / 30 A (UL)

**General ordering data**

|              |                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | LL 9.52/03/90 5.0SN OR BX                                                                                                                                                           |
| Order No.    | <a href="#">1724690000</a>                                                                                                                                                          |
| Version      | PCB terminal, 9.52 mm, No. of poles: 3, 90°, Solder pin length (l): 5 mm, tinned, Orange, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm <sup>2</sup> , Box |
| GTIN (EAN)   | 4008190959784                                                                                                                                                                       |
| Qty.         | 100 pc(s).                                                                                                                                                                          |
| Product data | IEC: 1000 V / 32 A / 0.18 - 6 mm <sup>2</sup><br>UL: 300 V / 30 A / AWG 26 - AWG 10                                                                                                 |
| Packaging    | Box                                                                                                                                                                                 |

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## Technical data

### Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 8.98 g |
|------------|--------|

### System parameters

|                                              |                             |                                            |                          |
|----------------------------------------------|-----------------------------|--------------------------------------------|--------------------------|
| Product family                               | OMNIMATE Signal - series LL | Wire connection method                     | Clamping yoke connection |
| Property, clamping point                     | WireReady                   | Mounting onto the PCB                      | THT solder connection    |
| Conductor outlet direction                   | 90°                         | Pitch in mm (P)                            | 9.52 mm                  |
| Pitch in inches (P)                          | 0.375 inch                  | No. of poles                               | 3                        |
| Fitted by customer                           | Yes                         | Max. adjacent poles per row                | 12                       |
| Solder pin length (l)                        | 5 mm                        | Solder pin dimensions                      | 0.5 x 1.0 mm             |
| Solder eyelet hole diameter (D)              | 1.3 mm                      | Solder eyelet hole diameter tolerance (D)+ | 0.1 mm                   |
| Number of solder pins per pole               | 1                           | Screwdriver blade                          | 0.8 x 4.0                |
| Screwdriver blade standard                   | DIN 5264                    | Tightening torque, min.                    | 0.5 Nm                   |
| Tightening torque, max.                      | 0.6 Nm                      | Clamping screw                             | M 3                      |
| Stripping length                             | 7 mm                        | L1 in mm                                   | 19.04 mm                 |
| L1 in inches                                 | 0.75 inch                   | Touch-safe protection acc. to DIN VDE 0470 | IP 20                    |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch      |                                            |                          |

### Material data

|                                       |            |                                       |                            |
|---------------------------------------|------------|---------------------------------------|----------------------------|
| Insulating material                   | Wemid (PA) | Colour                                | Orange                     |
| Colour chart (similar)                | RAL 2000   | Insulating material group             | I                          |
| CTI                                   | ≥ 600      | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω        |
| UL 94 flammability rating             | V-0        | Contact material                      | Cu-Leg                     |
| Contact surface                       | tinned     | Coating                               | 4-6 µm SN                  |
| Tinning type                          | matt       | Layer structure of solder connection  | 2-4 µm Ni / 4-6 µm Sn matt |
| Storage temperature, min.             | -25 °C     | Storage temperature, max.             | 55 °C                      |
| Max. relative humidity during storage | 80 %       | Operating temperature, min.           | -50 °C                     |
| Operating temperature, max.           | 120 °C     | Temperature range, installation, min. | -25 °C                     |
| Temperature range, installation, max. | 120 °C     |                                       |                            |

### Conductors suitable for connection

|                                                 |                         |                                                 |                     |
|-------------------------------------------------|-------------------------|-------------------------------------------------|---------------------|
| Clamping range, rated connection, min.          | 0.18 mm <sup>2</sup>    | Clamping range, rated connection, max.          | 6 mm <sup>2</sup>   |
| Wire connection cross section AWG, min.         | AWG 26                  | Wire connection cross section AWG, max.         | AWG 10              |
| Solid, min. H05(07) V-U                         | 0.18 mm <sup>2</sup>    | Solid, max. H05(07) V-U                         | 6 mm <sup>2</sup>   |
| Flexible, min. H05(07) V-K                      | 0.22 mm <sup>2</sup>    | Flexible, max. H05(07) V-K                      | 4 mm <sup>2</sup>   |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm <sup>2</sup>     | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.5 mm <sup>2</sup>     | w. wire end ferrule, DIN 46228 pt 1, max.       | 4 mm <sup>2</sup>   |
| Plug gauge acc. to EN 60999 a x b; Ø            | 3.6 mm x 3.1 mm; 2.7 mm |                                                 |                     |

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**Technical data**
**Rated data acc. to IEC**

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Ta = 20°C)                          | 32 A              |
| Rated current, max. no. of poles (Ta = 20°C)                              | 32 A                   | Rated current, min. no. of poles (Ta = 40°C)                          | 32 A              |
| Rated current, max. no. of poles (Ta = 40°C)                              | 32 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 1,000 V           |
| Rated voltage for surge voltage class / pollution degree III/2            | 1,000 V                | Rated voltage for surge voltage class / pollution degree III/3        | 690 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 6 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 8 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 8 kV                   | Short-time withstand current resistance                               | 3 x 1s with 120 A |

**Rated data acc. to CSA**

|                               |                                                                                   |                               |                |
|-------------------------------|-----------------------------------------------------------------------------------|-------------------------------|----------------|
| Institute (CSA)               |  | Certificate No. (CSA)         | 200039-1815154 |
| Rated voltage (Use group B)   | 300 V                                                                             | Rated voltage (Use group C)   | 300 V          |
| Rated current (use group B)   | 30 A                                                                              | Rated current (use group C)   | 35 A           |
| Wire cross-section, AWG, min. | AWG 26                                                                            | Wire cross-section, AWG, max. | AWG 10         |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate.            |                               |                |

**Rated data acc. to UL 1059**

|                               |                                                                                     |                               |        |
|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--------|
| Institute (cURus)             |  | Certificate No. (cURus)       | E60693 |
| Rated voltage (use group B)   | 300 V                                                                               | Rated voltage (use group C)   | 300 V  |
| Rated current (use group B)   | 30 A                                                                                | Rated current (use group C)   | 30 A   |
| Wire cross-section, AWG, min. | AWG 26                                                                              | Wire cross-section, AWG, max. | AWG 10 |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate.              |                               |        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001284    | ETIM 4.0   | EC002643    |
| ETIM 5.0   | EC002643    | ETIM 6.0   | EC002643    |
| UNSPSC     | 30-21-18-01 | eClass 6.2 | 27-26-11-01 |
| eClass 7.1 | 27-44-04-01 | eClass 8.1 | 27-44-04-01 |
| eClass 9.0 | 27-44-04-01 | eClass 9.1 | 27-44-04-01 |

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**Technical data****Notes**

Notes

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- 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.

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals



ROHS

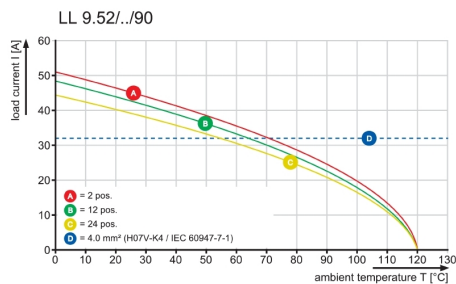
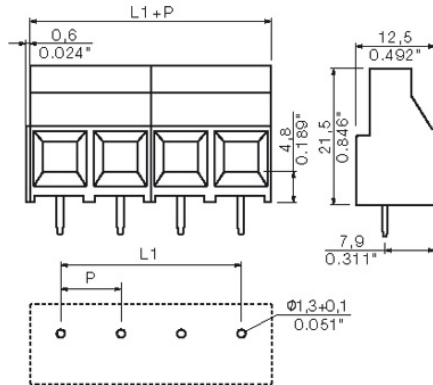
Conform

**Downloads**Engineering data [EPLAN](#)CAD Library (P-CAD Format - ASCII) [LL.zip](#)CAD Library (P-CAD Format - Standard) [LL.zip](#)

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# Drawings



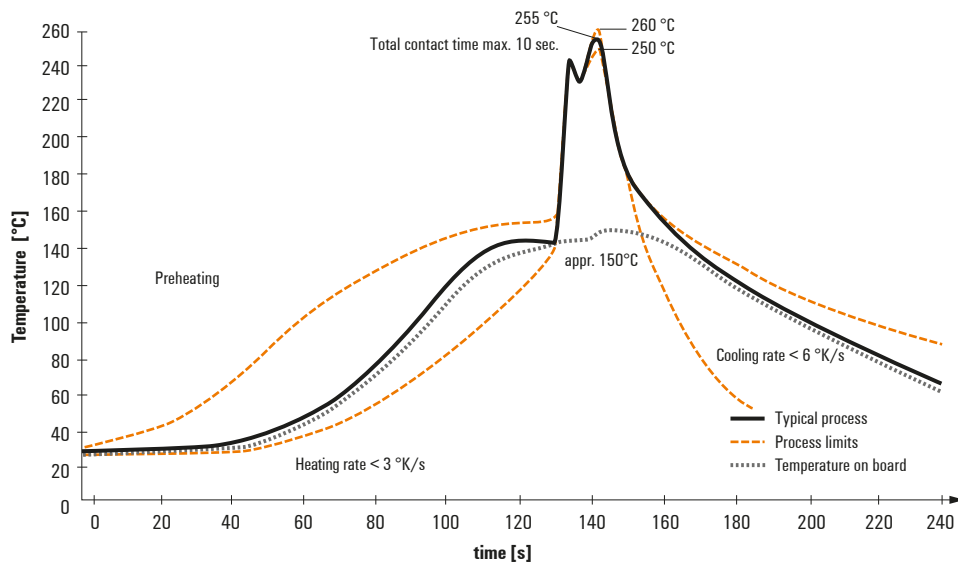
## Recommended wave soldering profiles

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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.

# Addresses worldwide

Let's connect.

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You can find all Weidmüller addresses and your local contact on the internet at: [www.weidmueller.com/countries](http://www.weidmueller.com/countries)

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Representation abroad 

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|                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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