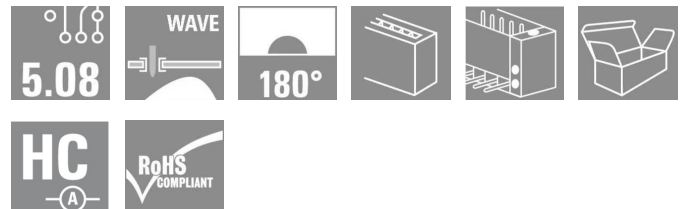


**OMNIMATE Signal - series BL/SL 5.08  
SL 5.08HC/11/180F 3.2SN OR BX**

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



Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

**General ordering data**

|              |                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type         | SL 5.08HC/11/180F 3.2SN OR BX                                                                                                                          |
| Order No.    | <a href="#">1147410000</a>                                                                                                                             |
| Version      | PCB plug-in connector, male header, Flange, THT solder connection, 5.08 mm, No. of poles: 11, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box |
| GTIN (EAN)   | 4032248931323                                                                                                                                          |
| Qty.         | 50 pc(s).                                                                                                                                              |
| Product data | IEC: 400 V / 24 A<br>UL: 300 V / 18.5 A                                                                                                                |
| Packaging    | Box                                                                                                                                                    |

## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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### Technical data

#### Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 5.1 g |
|------------|-------|

#### System specifications

|                                           |                                     |                                 |                       |
|-------------------------------------------|-------------------------------------|---------------------------------|-----------------------|
| Product family                            | OMNIMATE Signal - series BL/SL 5.08 | Mounting onto the PCB           | THT solder connection |
| Pitch in mm (P)                           | 5.08 mm                             | Pitch in inches (P)             | 0.2 inch              |
| Outgoing elbow                            | 180°                                | No. of poles                    | 11                    |
| Number of solder pins per pole            | 1                                   | Solder pin length (l)           | 3.2 mm                |
| Solder pin length tolerance               | +0.1 / -0.3 mm                      | Solder pin dimensions           | d = 1.2 mm, Octagonal |
| Solder pin dimensions = d tolerance       | 0 / -0.03 mm                        | Solder eyelet hole diameter (D) | 1.3 mm                |
| Solder eyelet hole diameter tolerance (D) | + 0.1 mm                            | L1 in mm                        | 50.8 mm               |
| L1 in inches                              | 2 inch                              | Number of rows                  | 1                     |
| Pin series quantity                       | 1                                   | Can be coded                    | Yes                   |
| Plugging cycles                           | 25                                  | Packaging                       | Box                   |

#### Material data

|                                       |          |                                       |                            |
|---------------------------------------|----------|---------------------------------------|----------------------------|
| Insulating material                   | PA GF    | Colour                                | Orange                     |
| Colour chart (similar)                | RAL 2000 | Insulating material group             | II                         |
| CTI                                   | ≥ 550    | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω        |
| UL 94 flammability rating             | V-0      | Contact material                      | Cu-Leg                     |
| Contact surface                       | tinned   | Layer structure of solder connection  | 2-3 µm Ni / 2-4 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.           | 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. no. of poles (Ta = 20°C)                          | 24 A  |
| Rated current, max. no. of poles (Ta = 20°C)                              | 19 A                   | Rated current, min. no. of poles (Ta = 40°C)                          | 21 A  |
| Rated current, max. no. of poles (Ta = 40°C)                              | 16.5 A                 | Rated voltage for surge voltage class / pollution degree II/2         | 400 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      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV  |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   |                                                                       |       |

#### Rated data acc. to CSA

|                             |        |                             |        |
|-----------------------------|--------|-----------------------------|--------|
| Rated voltage (Use group B) | 300 V  | Rated voltage (use group D) | 300 V  |
| Rated current (use group B) | 18.5 A | Rated current (use group D) | 18.5 A |

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**Technical data****Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (use group B) 300 V

Rated voltage (use group D) 300 V

Rated current (use group B) 18.5 A

Rated current (use group D) 10 A

Reference to approval values  
 Specifications are maximum values, details - see approval certificate.

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 4.0   | EC002637    | ETIM 5.0   | EC002637    |
| ETIM 6.0   | EC002637    | eClass 6.2 | 27-26-07-04 |
| eClass 7.1 | 27-44-04-02 | eClass 8.1 | 27-44-04-02 |
| eClass 9.0 | 27-44-04-02 |            |             |

**Notes**

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- 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**

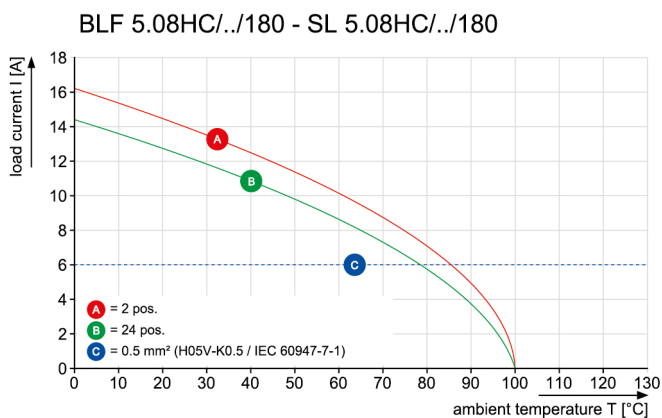
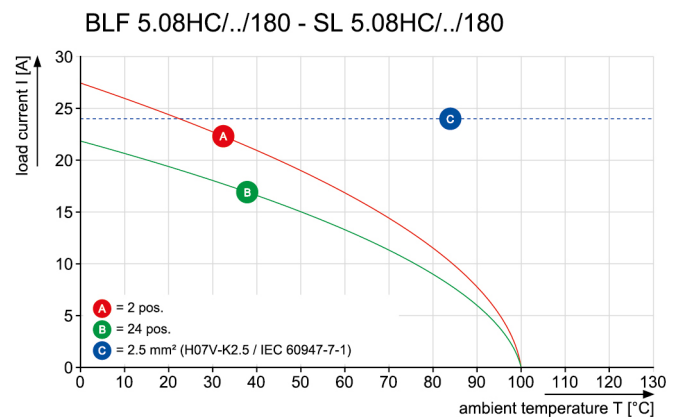
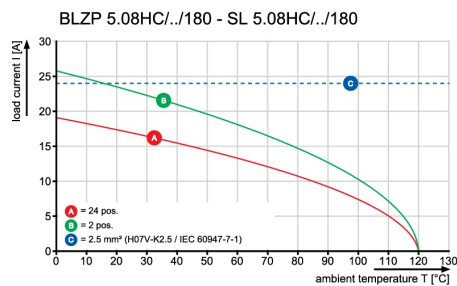
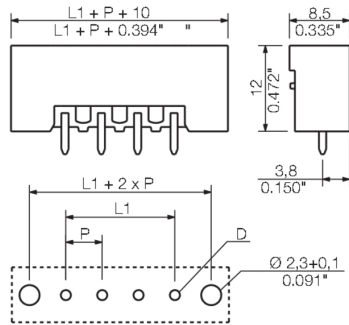
EDA Layout Library (Mentor Graphics  
 Expedition, Mentor Graphics Pads,  
 Altium Designer)

[Select your download](#)[3-D model](#)

## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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## Drawings



## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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### Mating connector (conditionally pluggable)

#### BLZP 5.08HC/90 SN



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

#### General ordering data

| Type                             | Order No.                  | Version                                                                                                                                                                      | GTIN (EAN)              | Qty. | Product data                                                                      | Packaging |
|----------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|-----------------------------------------------------------------------------------|-----------|
| BLZP<br>5.08HC/11/90<br>SN BK BX | <a href="#">1948330000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 90°, Clamping<br>yoke connection, Clamping<br>range, rated connection,<br>max.: 4 mm <sup>2</sup> , Box | 4032248624850 30 pc(s). |      | IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup><br>UL: 300 V / 20 A / AWG 30 - AWG 12 | Box       |
| BLZP<br>5.08HC/11/90<br>SN OR BX | <a href="#">1948100000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 90°, Clamping<br>yoke connection, Clamping<br>range, rated connection,<br>max.: 4 mm <sup>2</sup> , Box | 4032248624522 30 pc(s). |      | IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup><br>UL: 300 V / 20 A / AWG 30 - AWG 12 | Box       |

#### BLF 5.08HC/270 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

#### General ordering data

| Type                             | Order No.                  | Version                                                                                                      | GTIN (EAN)              | Qty. | Product data                                                                          | Packaging |
|----------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|------|---------------------------------------------------------------------------------------|-----------|
| BLF<br>5.08HC/11/270<br>SN BK BX | <a href="#">1982020000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 270°, PUSH<br>IN, Clamping range, rated | 4032248685714 30 pc(s). |      | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 18.5 A / AWG 26 - AWG 12 | Box       |

## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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www.weidmueller.com

### Mating connector (conditionally pluggable)

|               |                            |                                                 |                         |                                                   |
|---------------|----------------------------|-------------------------------------------------|-------------------------|---------------------------------------------------|
|               |                            | connection, max.: 3.31<br>mm <sup>2</sup> , Box |                         |                                                   |
| BLF           | <a href="#">1982790000</a> | PCB plug-in connector,                          | 4032248686889 30 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> Box |
| 5.08HC/11/270 |                            | female plug, 5.08 mm, No.                       |                         | UL: 300 V / 18.5 A / AWG 26 - AWG                 |
| SN OR BX      |                            | of poles: 11, 270°, PUSH                        |                         | 12                                                |
|               |                            | IN, Clamping range, rated                       |                         |                                                   |
|               |                            | connection, max.: 3.31                          |                         |                                                   |
|               |                            | mm <sup>2</sup> , Box                           |                         |                                                   |

### BLF 5.08HC/180 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

### General ordering data

| Type          | Order No.                  | Version                   | GTIN (EAN)              | Qty. | Product data                                  | Packaging |
|---------------|----------------------------|---------------------------|-------------------------|------|-----------------------------------------------|-----------|
| BLF           | <a href="#">1013530000</a> | PCB plug-in connector,    | 4032248721672 30 pc(s). |      | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> | Box       |
| 5.08HC/11/180 |                            | female plug, 5.08 mm, No. |                         |      | UL: 300 V / 18.5 A / AWG 26 - AWG             |           |
| SN BK BX      |                            | of poles: 11, 180°, PUSH  |                         |      | 12                                            |           |
|               |                            | IN, Clamping range, rated |                         |      |                                               |           |
|               |                            | connection, max.: 3.31    |                         |      |                                               |           |
|               |                            | mm <sup>2</sup> , Box     |                         |      |                                               |           |
| BLF           | <a href="#">1013780000</a> | PCB plug-in connector,    | 4032248721894 30 pc(s). |      | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> | Box       |
| 5.08HC/11/180 |                            | female plug, 5.08 mm, No. |                         |      | UL: 300 V / 18.5 A / AWG 26 - AWG             |           |
| SN OR BX      |                            | of poles: 11, 180°, PUSH  |                         |      | 12                                            |           |
|               |                            | IN, Clamping range, rated |                         |      |                                               |           |
|               |                            | connection, max.: 3.31    |                         |      |                                               |           |
|               |                            | mm <sup>2</sup> , Box     |                         |      |                                               |           |

## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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### Mating connector (fully pluggable)

#### BLF 5.08HC/180F SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

#### General ordering data

| Type                              | Order No.                  | Version                                                                                                                                                         | GTIN (EAN)    | Qty.      | Product data                                                                             | Packaging |
|-----------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|------------------------------------------------------------------------------------------|-----------|
| BLF<br>5.08HC/11/180F<br>SN OR BX | <a href="#">1013180000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 180°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box | 4032248720934 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 18.5 A / AWG 26 - AWG<br>12 | Box       |
| BLF<br>5.08HC/11/180F<br>SN BK BX | <a href="#">1012740000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 180°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box | 4032248720385 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 18.5 A / AWG 26 - AWG<br>12 | Box       |

## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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### Mating connector (fully pluggable)

#### BLF 5.08HC/270LR SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

#### General ordering data

| Type                               | Order No.                  | Version                                                                                                                                                         | GTIN (EAN)    | Qty.      | Product data                                                                             | Packaging |
|------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|------------------------------------------------------------------------------------------|-----------|
| BLF<br>5.08HC/11/270LR<br>SN OR BX | <a href="#">1983170000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 270°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box | 4032248687268 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 18.5 A / AWG 26 - AWG<br>12 | Box       |
| BLF<br>5.08HC/11/270LR<br>SN BK BX | <a href="#">1982400000</a> | PCB plug-in connector,<br>female plug, 5.08 mm, No.<br>of poles: 11, 270°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box | 4032248686490 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup><br>UL: 300 V / 18.5 A / AWG 26 - AWG<br>12 | Box       |



## OMNIMATE Signal - series BL/SL 5.08 SL 5.08HC/11/180F 3.2SN OR BX

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### Mating connector (fully pluggable)

#### BLF 5.08HC/180LR SN



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- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

#### General ordering data

| Type            | Order No.                  | Version                                                                                                  | GTIN (EAN)    | Qty.      | Product data                                  | Packaging |
|-----------------|----------------------------|----------------------------------------------------------------------------------------------------------|---------------|-----------|-----------------------------------------------|-----------|
| BLF             | <a href="#">1014220000</a> | PCB plug-in connector,                                                                                   | 4032248723126 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> | Box       |
| 5.08HC/11/180LR |                            | female plug, 5.08 mm, No.                                                                                |               |           | UL: 300 V / 18.5 A / AWG 26 - AWG             |           |
| SN BK BX        |                            | of poles: 11, 180°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box |               |           | 12                                            |           |
| BLF             | <a href="#">1014470000</a> | PCB plug-in connector,                                                                                   | 4032248722891 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> | Box       |
| 5.08HC/11/180LR |                            | female plug, 5.08 mm, No.                                                                                |               |           | UL: 300 V / 18.5 A / AWG 26 - AWG             |           |
| SN OR BX        |                            | of poles: 11, 180°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box |               |           | 12                                            |           |

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### Mating connector (fully pluggable)

#### BLF 5.08HC/270F SN



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- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

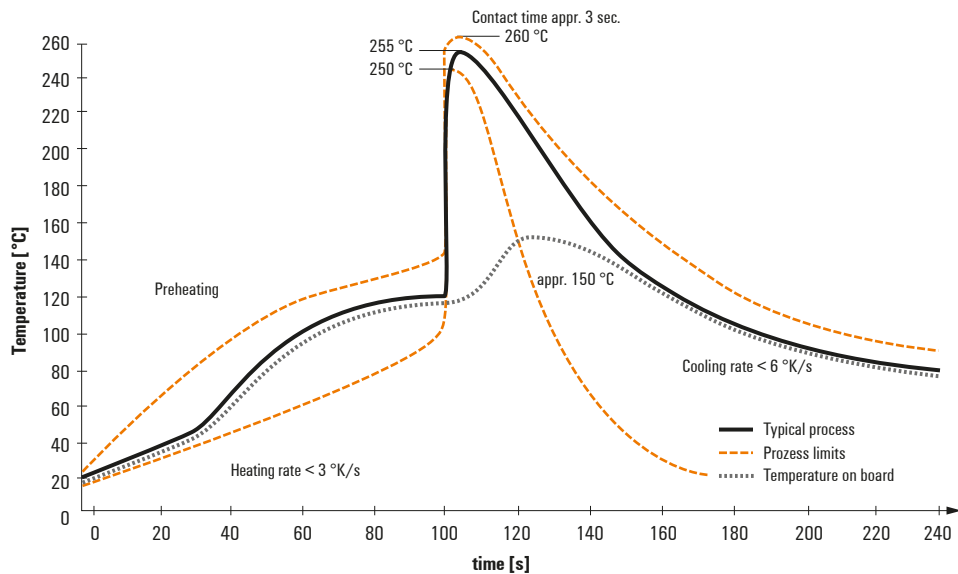
#### General ordering data

| Type           | Order No.                  | Version                                                                                                  | GTIN (EAN)    | Qty.      | Product data                                  | Packaging |
|----------------|----------------------------|----------------------------------------------------------------------------------------------------------|---------------|-----------|-----------------------------------------------|-----------|
| BLF            | <a href="#">1982210000</a> | PCB plug-in connector,                                                                                   | 4032248686308 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> | Box       |
| 5.08HC/11/270F |                            | female plug, 5.08 mm, No.                                                                                |               |           | UL: 300 V / 18.5 A / AWG 26 - AWG             |           |
| SN BK BX       |                            | of poles: 11, 270°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box |               |           | 12                                            |           |
| BLF            | <a href="#">1982980000</a> | PCB plug-in connector,                                                                                   | 4032248687077 | 24 pc(s). | IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup> | Box       |
| 5.08HC/11/270F |                            | female plug, 5.08 mm, No.                                                                                |               |           | UL: 300 V / 18.5 A / AWG 26 - AWG             |           |
| SN OR BX       |                            | of poles: 11, 270°, PUSH<br>IN, Clamping range, rated<br>connection, max.: 3.31<br>mm <sup>2</sup> , Box |               |           | 12                                            |           |

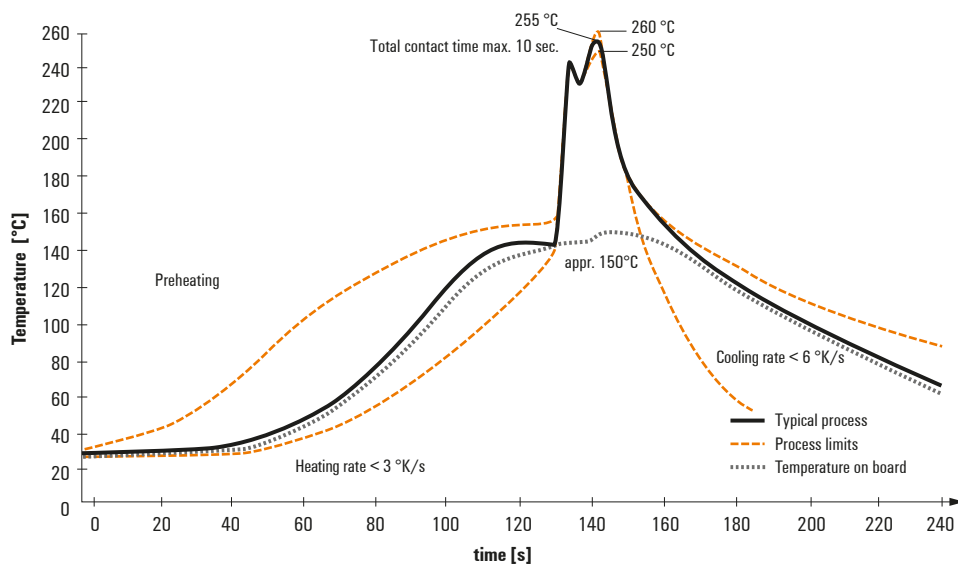
## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
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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.

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