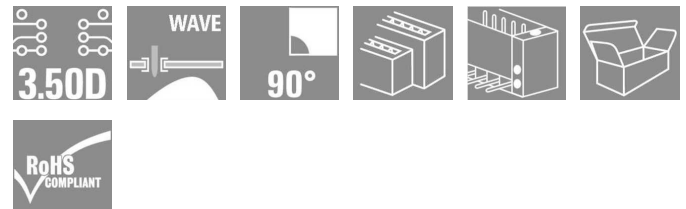


**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/24/90F 3.5SN BK BX**

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Angled, two-tier pin header available as closed-sided or with flange (open-sided pin headers on request). Pin headers with 3.5mm pins are designed for wave soldering and are packaged in a box. They can be screwed on to the PCB. The pin headers provide space for labelling and can be coded.

General ordering data

Type	S2L 3.50/24/90F 3.5SN BK BX
Order No.	1728720000
Version	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, No. of poles: 24, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box
GTIN (EAN)	4032248040186
Qty.	36 pc(s).
Product data	IEC: 250 V / 10 A UL: 150 V / 10 A
Packaging	Box

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Technical data**Dimensions and weights**

Net weight	8.1 g
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System specifications

Product family		Type of connection	
OMNIMATE Signal - series B2L/S2L 3.50 - 2-row			Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Outgoing elbow	90°
No. of poles	24	Number of solder pins per pole	1
Solder pin length (l)	3.5 mm	Tolerance of solder pin position	+0.1 / -0.1 mm
Solder pin dimensions	d = 1.0 mm, Octagonal	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	38.5 mm
L1 in inches	1.516 inch	Number of rows	1
Pin series quantity	2	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP 10	Can be coded	Yes
Plugging cycles	25	push-in force/pole	3 N
Withdrawal force per pole	6 N	Packaging	Box

Material data

Insulating material	PBT	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 200	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Cu-Leg
Contact surface	tinned	Layer structure of solder connection	2-3 μm Ni / 5-7 μm Sn glossy
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.	-30 °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)	10 A
Rated current, max. no. of poles (Ta = 20°C)	10 A	Rated current, min. no. of poles (Ta = 40°C)	9 A
Rated current, max. no. of poles (Ta = 40°C)	8.5 A	Rated voltage for surge voltage class / pollution degree II/2	250 V
Rated voltage for surge voltage class / pollution degree III/2	125 V	Rated voltage for surge voltage class / pollution degree III/3	80 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	2.5 kV	Short-time withstand current resistance	3 x 1s with 77 A


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Technical data**Rated data acc. to CSA**

Institute (CSA)		Certificate No. (CSA)	200039-1488444
Rated voltage (Use group B)	150 V	Rated current (use group B)	5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (use group B)	150 V	Rated voltage (use group C)	50 V
Rated current (use group B)	10 A	Rated current (use group C)	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	UNSPSC	30-21-18-10
eClass 5.1	27-26-07-01	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	<ul style="list-style-type: none"> • Additional colours on request • Gold-plated contact surfaces on request • Spacing between rows: see hole layout • 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. • For additional mechanical support for male connectors with screw flange (...F), we recommend an additional cable gland with fastening screws (sheet metal screw ISO 1481-ST 2.2x4.5 C or ISO 7049-ST 2.2x4.5 C - see Accessories). Cable gland only permitted after soldering.
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.

Data sheet**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/24/90F 3.5SN BK BX**

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Technical data**Approvals**

Approvals



ROHS

Conform

Downloads

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

[Select your download](#)

CAD Library (P-CAD Format - ASCII)

[S2L-SMT.zip](#)

CAD Library (P-CAD Format - Standard)

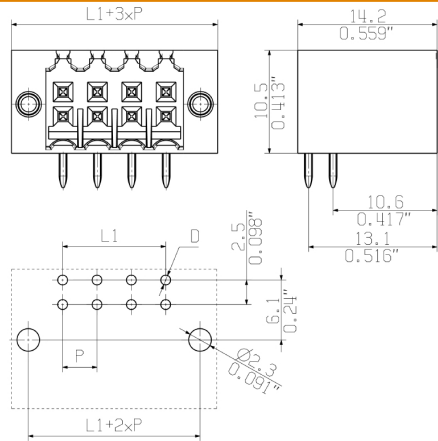
[S2L-SMT.zip](#)[3-D model](#)

Data sheet

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/24/90F 3.5SN BK BX**

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Drawings



**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
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Mating connector (fully pluggable)
B2CF 3.50/180F

Two-row female plug with PUSH IN spring connection

- Simply insert the prepared wire - and you're done
- Intuitive to use because
- the wire-entry area and handling area are clearly separated
- Integrated push-buttons for opening the terminal point
- High component density because of low heights
- Optional: locking and releasing require no tools when using Weidmüller's release latch (LR) or release lever (LH)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2CF 3.50/24/180F SN BK BX	1277970000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Box	4050118068009	36 pc(s).	IEC: 320 V / 13.4 A / 0.14 - 1.5 mm ² UL: 300 V / 9.5 A / AWG 26 - AWG 16	Box
B2CF 3.50/24/180F SN OR BX	127780000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Box	4050118067910	36 pc(s).	IEC: 320 V / 13.4 A / 0.14 - 1.5 mm ² UL: 300 V / 9.5 A / AWG 26 - AWG 16	Box

B2CF 3.50/180LH

Two-row female plug with PUSH IN spring connection

- Simply insert the prepared wire - and you're done
- Intuitive to use because
- the wire-entry area and handling area are clearly separated
- Integrated push-buttons for opening the terminal point
- High component density because of low heights
- Optional: locking and releasing require no tools when using Weidmüller's release latch (LR) or release lever (LH)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2CF 3.50/24/180LH SN BK BX	1372870000	PCB plug-in connector, 3.50 mm, No. of poles: 24, 180°, PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Box	4050118174700	36 pc(s).	IEC: 320 V / 13.4 A / 0.14 - 1.5 mm ² UL: 300 V / 9.5 A / AWG 26 - AWG 16	Box

OMNIMATE Signal - series B2L/S2L 3.50 - 2-row S2L 3.50/24/90F 3.5SN BK BX

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 Fax: +49 5231 14-292083
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Mating connector (fully pluggable)

B2CF	1365820000	PCB plug-in connector, 3.50405011816913336 pc(s).	IEC: 320 V / 13.4 A / 0.14 - 1.5 mm ² Box
3.50/24/180LH		mm, No. of poles: 24, 180°,	UL: 300 V / 9.5 A / AWG 26 - AWG
SN OR BX		PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Box	16

B2L 3.50F



Component density redefined: the future standard for signal connection

A maximum number of connections requiring minimum space - the double-row B2L sets the bar for field connections of typical sensor cables up to 1 mm² very high and closes the gap between "less space" and "more functions".

The result is a connection solution for standard industrial cables in 1.75 pitch - 30% smaller than equivalent solutions in 2.5 pitch, and with the 140% robustness of the 3.5 pitch

Dimensions: double the connection density with a 3.5mm pitch size

Connection system: tried and tested maintenance-free Weidmüller tension clamp connection

The basic application advantages:

Efficient: maximum component density on the PCB
 Suitable for industrial use - minimum dimensions, maximum robustness

Process-optimised - automatic assembly and reflow soldering, fast connection

User-friendly - patented release lever for the easy release of larger numbers of poles

Application-oriented: easy labelling and reliable coding despite compact dimensions

Miniaturisation is more than just a larger number of functions within a smaller space:

Each reduction in size decreases space requirements and so reduces overall system costs for the end customer.

Thus, Weidmüller fulfils a growing demand in the engineering and industrial automation sectors.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L 3.50/24/180F SN BK BX	1748260000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	403224803809136 pc(s).		IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
B2L 3.50/24/180F SN OR BX	1748100000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated	403224803799536 pc(s).		IEC: 250 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
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Mating connector (fully pluggable)

connection, max.: 1 mm²,
Box

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/24/90F 3.5SN BK BX**

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Mating connector (conditionally pluggable)
B2L 3.50LH


Female connectors with tension clamp connection system enable quick and simple wiring. These female header can be mounted side by side and therefore have a high connection density. The release lever simplifies the separation of the connection in confined spaces. The socket blocks provide space for labelling and can be coded.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L 3.50/24/180LH SN OR BX	1748420000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm², Box	4032248038190	36 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
B2L 3.50/24/180LH SN BK BX	1748580000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm², Box	4032248038299	36 pc(s).	IEC: 250 V / 10.3 A / 0.2 - 1 mm² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

**OMNIMATE Signal - series B2L/S2L 3.50 - 2-row
S2L 3.50/24/90F 3.5SN BK BX**

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Mating connector (conditionally pluggable)
B2L 3.50

Component density redefined: the future standard for signal connection

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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
B2L 3.50/24/180 SN OR BX	1747860000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248037827	42 pc(s).	IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box
B2L 3.50/24/180 SN BK BX	1747940000	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 24, 180°, Tension clamp connection, Clamping range, rated connection, max.: 1 mm ² , Box	4032248037926	42 pc(s).	IEC: 200 V / 10.3 A / 0.2 - 1 mm ² UL: 300 V / 10 A / AWG 28 - AWG 16	Box

Addresses worldwide




Let's connect.

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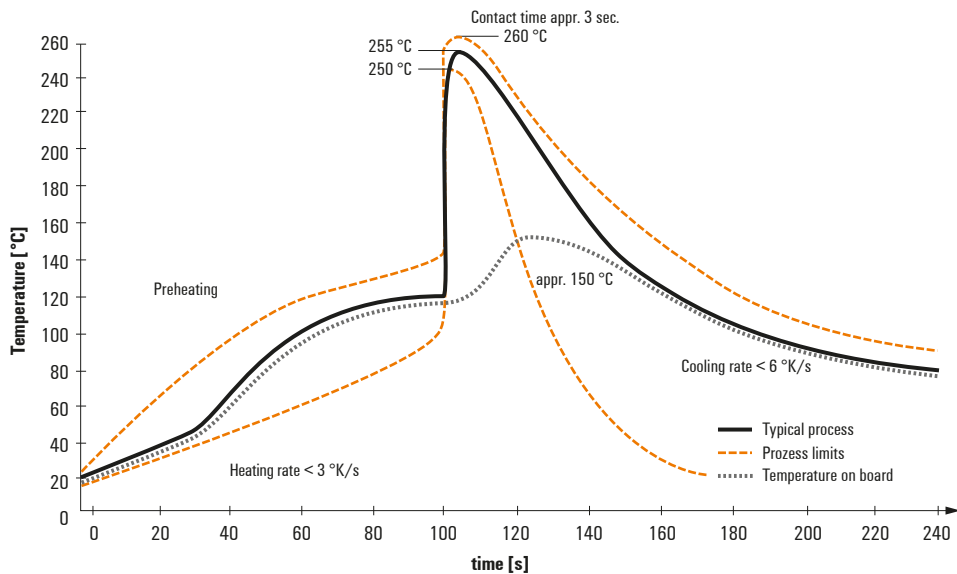
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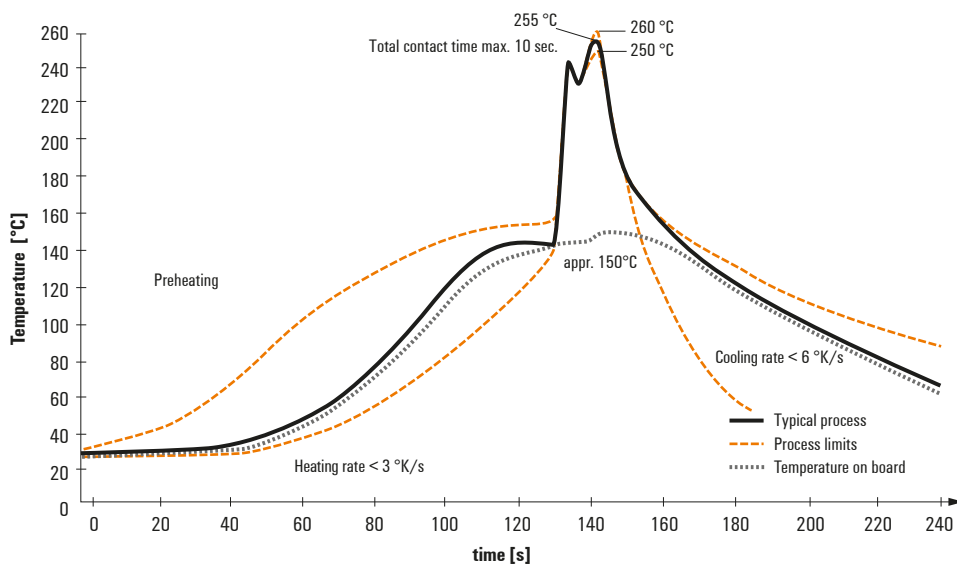
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Single Wave:



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.