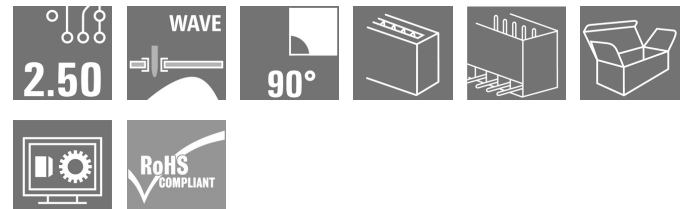


SL 2.50/04/90G 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

Male header for wave soldering in 2.50 mm pitch.

- Plugging direction is parallel (90°) to the PCB
- Housing variant: Closed (G)
- Packaged in a cardboard box (BX)

General ordering data

Version	PCB plug-in connector, male header, THT solder connection, Pitch in mm (P): 2.50 mm, Number of poles: 4, 90°, Box
Order No.	2439770000
Type	SL 2.50/04/90G 3.2SN BK BX
GTIN (EAN)	4050118454949
Qty.	250 pc(s).
Product data	IEC: 320 V / 6 A UL: 150 V / 5 A
Packaging	Box

Creation date May 19, 2024 6:08:36 AM CEST

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Technical data

Dimensions and weights

Depth	10.1 mm	Depth (inches)	0.398 inch
Height	11.3 mm	Height (inches)	0.445 inch
Height of lowest version	8.1 mm	Width	11.9 mm
Width (inches)	0.469 inch	Net weight	0.972 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 2.50	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	2.5 mm
Pitch in inches (P)	0.098 "	Outgoing elbow	90°
Number of poles	4	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.1 mm
Solder pin dimensions	0.8 x 0.8 mm	Solder pin dimensions = d tolerance	+0,02 / -0,02 mm
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)+	0,1 mm
L1 in mm	7.5 mm	L1 in inches	2.952 "
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged

Material data

Insulating material	PA 66	Colour	black
Colour chart (similar)	RAL 9011	Comparative Tracking Index (CTI)	≥ 600
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Tinning type	matt
Layer structure of solder connection	1...3 µm Ni / 4...6 µm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	105 °C		

Rated data acc. to IEC

tested acc. to standard	IEC 61984	Rated current, min. number of poles (Tu=20°C)	6 A
Rated current, min. number of poles (Tu=40°C)	6 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	320 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		

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	150 V	Rated current (Use group B / CSA)	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 / UL 1059) 150 V

Rated current (Use group B / UL 1059) 5 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Box	VPE length	138 mm
VPE width	88 mm	VPE height	52 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

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

- 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- 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. (cURus)	E60693

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Technical data

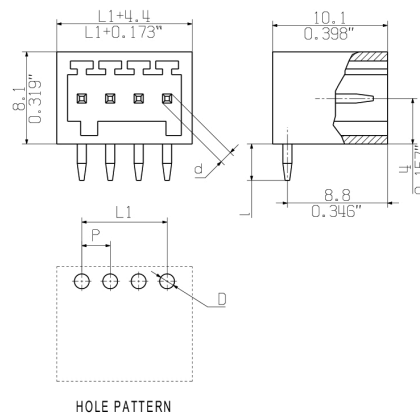
Downloads

Approval/Certificate/Document of Con- formity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FLIndustr.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN

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Drawings**Dimensional drawing**

SL 2.50/04/90G 3.2SN BK BX

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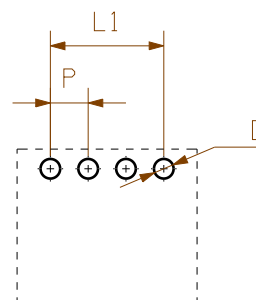
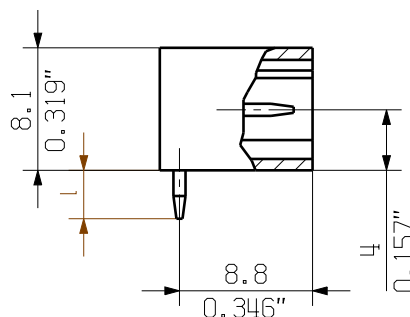
Drawings

Product benefits



Operating safety
Through PUSH IN connection system

DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING



HOLE PATTERN



1:1

SHOWN: SL 2.50/04/90 3.2SN

$$n = \text{POLZAHL/NO OF POLS}$$

$$L1 = (n-1) \times P$$

P= 2.50mm RASTER
0,098" PITCH

$$D = \frac{\emptyset 1.3 + 0.1}{0.051''}$$

d= 1.0, OKTAGONAL
0.039"

$$l = \frac{3.2}{0.126''}$$

12	31,90	1,256
11	29,40	1,157
10	26,90	1,059
9	24,40	0,961
8	21,90	0,862
7	19,40	0,764
6	16,90	0,665
5	14,40	0,567
4	11,90	0,469
3	9,40	0,370
2	6,90	0,272
n	L [mm]	L [Inch]

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

GENERAL TOLERANCE:
DIN ISO 2768-mH



MAX. NRN./NOS.

86511/0	00
02.03.16 AMANN A	

MODIFICATION

DATE

NAME

DRAWN

22.02.2016

AMANN A

RESPONSIBLE

AMANN A

CHECKED

02.03.2016

HELIS MA

SCALE: 2:1

SUPERSEDES: .

APPROVED

LANG T

PRODUCT FILE: SL/BLF 2.50

7414

CAT.NO.: .

4 63328 00

DRAWING NO.		ISSUE NO.	
SHEET 00	OF 00	SHEETS	

SL 2.50/2-12/90..
STIFTELEISTE
MALE HEADER

PRODUCT FILE: SL/BLF 2.50

7414

Recommended wave soldering profiles

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Germany
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Fax: +49 5231 14-292083
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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.