

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

















Similar to illustration

High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

Version	PCB plug-in connector, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 8, 180°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>2634730000</u>
Туре	SL-SMT 5.00HC/08/180 3.2SN BK BX CO
GTIN (EAN)	4050118650396
Qty.	50 pc(s).
Product data	IEC: 400 V / 27.5 A
	UL: 300 V / 18.5 A
Packaging	Вох

Creation date May 11, 2025 9:44:16 PM CEST



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Technical data

Dimensions and weights

Depth	8.5 mm	Depth (inches)	0.335 inch
Height	15.2 mm	Height (inches)	0.598 inch
Height of lowest version	12 mm	Width	40 mm
Width (inches)	1.575 inch	Net weight	4.025 g

System specifications

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Product family	OMNIMATE Signal - series BL/SL 5.00	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connec-	Pitch in mm (P)	
	tion		5 mm
Pitch in inches (P)	0.197 "	Outgoing elbow	180°
Number of poles	8	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin length tolerance	+0.1 / -0.2 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Solder eyelet hole diameter tolerance ([D)+ 0,1 mm	L1 in mm	35 mm
L1 in inches	1.378 "	Number of rows	1
Pin series quantity		Touch-safe protection acc. to DIN VDE	finger-safe unplugged/
	1	57 106	back-of-hand-safe plugged
Touch-safe protection acc. to DIN VDE	IP20 plugged/ IP10 un-	Protection degree	
0470	plugged		IP20
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging force/pole, max.	7 N	Pulling force/pole, max.	5.5 N

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface		Layer structure of solder connection	13 μm Ni / 24 μm Sn
	tinned		matt
Layer structure of plug contact	13 μm Ni / 24 μm Sn	Storage temperature, min.	
	matt		-40 °C
Storage temperature, max.	70 °C	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. number of poles (Tu=20°C)	27.5 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C) Rated voltage for surge voltage class /	16.5 A	pollution degree II/2 Rated voltage for surge voltage class /	400 V
pollution degree III/2	320 V	pollution degree III/3	250 V
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree II/2	4 kV	class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage			
class/ contamination degree III/3	4 kV		



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Technical data

Rated data acc. to CSA	Rated	data	acc.	to	CSA
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Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	15 A

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059) 300 V	Rated voltage (Use group D / UL 1059) 300 V
Rated current (Use group B / UL 1059) 18.5 A	Rated current (Use group D / UL 1059) 10 A

Packing

Packaging	Box	VPE length	167 mm	
VPE width	117 mm	VPE height	38 mm	

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	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
ECLASS 15.0	27-46-02-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

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	 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

ROHS	Conform	

Downloads

Catalogues	Catalogues in PDF-format
White paper surface mount technology	Download Whitepaper



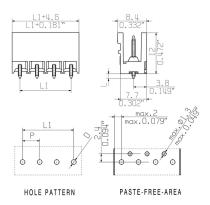
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Drawings

Dimensional drawing



Product benefits



Safe power transmission Proven properties



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Drawings

Product benefits



115,00

110,00

105,00

100,00

95,00

90,00

85,00

80,00

75,00

70,00

65,00

60,00

55,00 50,00

45,00

40,00 35,00

30,00

9

4,528

4,331

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3,543

3,346

3,150

2,953

2,756

2,559

2,362 2,165

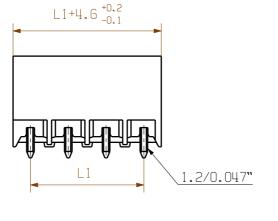
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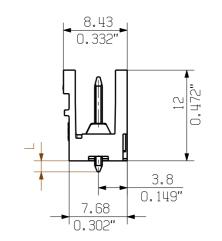
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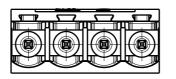
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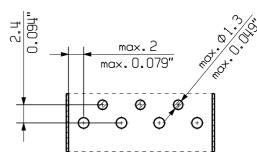
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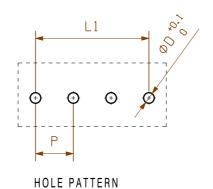


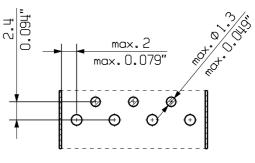






PASTE-FREE-AREA





D= 1.4/0.055" or 1.5/0.059"(REFLOW SOLDERING)
RECOMMENDATION FOR AUTOMATIC ASSEMBLY (1.4 mm FOR n = 2...8 / 1.5 mm for n = 9...24)

P=RASTER/PITCH

Supersedes:

For the mounting of PCBs, it should be noted that the rated data stated here relates only to the PCB components

The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.

Provided that the components are used to the intended purpose, all requirements with respect to the

occuring of electrical, mechanical, thermic and

corrosive stress will be satisfied.

SHOWN: SL-SMT 5.00HC/04/180

		6	25,00	0,984		
STIFTLAENGE L	TOLERANZ	5	20,00	0,787		
		4	15,00	0,591 0,394		
1,5	0,0	3	10,00			
	-0,3 0.1	2	5.00	0,197		
3,2	-0.3	n	L1 [mm]	L1 [Inch]		
	-,-		0.:.			
1.	[σαι. πο					

Product file: SL-SMT 5.00

				Cat.no.:.								
ROMS		106340/4 30.07.18 HE	RTEL_S 00	We	eidmül	ller	%	C Drawing n	3	41	6 5	07
DIN ISO 2768-m		Modification					Sheet	01	of	0 4	sheets	
	5		Date	Name								
		Drawn	22.01.2008	HERTEL_S	TM2-12	T M 2	5.00HC//180					
		Responsible		HERTEL_S	06-		STIFTLEISTE					
Scale: 2/1		Checked	27.08.2018	HERTEL_S	PIN HEADER							

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Approved



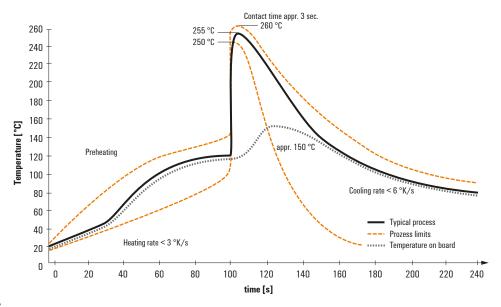
Recommended wave solderding profiles

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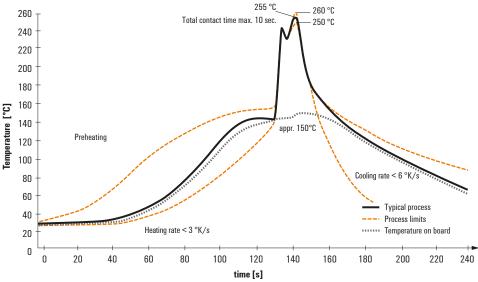
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Single Wave:



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.

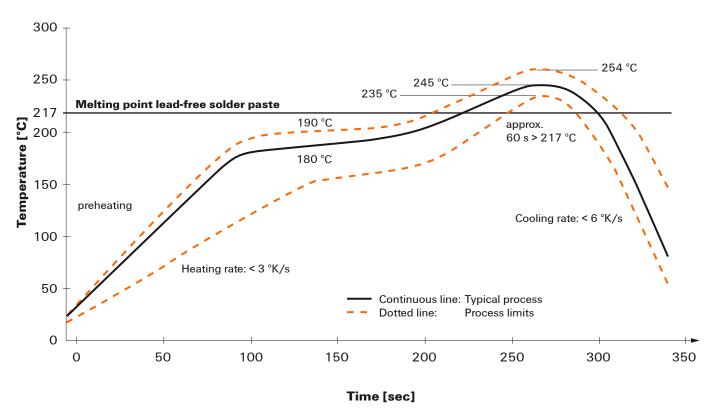


Recommended reflow soldering profile

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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- · Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- · Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3$ K/s. In parallel the solder paste is ,activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at \geq -6K/s solder is cured. Board and components cool down while avoiding cold cracks.