

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com























Similar to illustration

High-temperature-resistant, 90° angled, open male header. Packed in box or tape. On tape, 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

Туре	SL-SMT 5.08HC/23/90 1.5SN BK BX
Order No.	<u>1774972001</u>
Version	PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, Number of poles: 23, 90°, Solder pin length (I): 1.5 mm, tinned, black, Box
GTIN (EAN)	4032248156009
Oty.	20 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Вох

Creation date May 3, 2020 12:30:21 PM CEST



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Technical data

Dimensions and weights

Width	116.84 mm	Width (inches)	4.6 inch
Height	10 mm	Height (inches)	0.394 inch
Height of lowest version	8.5 mm	Depth	12 mm
Depth (inches)	0.472 inch	Net weight	8.5 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
Number of poles	23	Number of solder pins per pole	1
Solder pin length (I)	1.5 mm	Solder pin length tolerance	0 / -0.3 mm
Tolerance of solder pin position	± 0.20 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder eyelet hole diameter (D)	1.5 mm	Solder eyelet hole diameter tolerand	ce (D)+ 0,1 mm
L1 in mm	111.76 mm	L1 in inches	4.4 inch
Number of rows	1	Pin series quantity	1
Volume resistance	≤ 5mΩ	Can be coded	Yes
Plugging cycles	25	Plugging force/pole, max.	9 N
Pulling force/pole, max.	7 N		

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Insulation strength	$\geq 10^8 \Omega$
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
GWIT	930 °C	GWFI	960 °C
Contact material	CuMg	Contact surface	tinned
Layer structure of solder connection	1-3 μm Ni / 2-4 μm Sn	Layer structure of plug contact	1-3 μm Ni / 2-4 μm Sn
	matt		matt
Storage temperature, min.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	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		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(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 (Tu=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		



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30 mm

150 mm

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Technical data

Rated data acc. to CSA

nstitute (CSA)	€P ·	Certificate No. (CSA)	
			200039-1176845
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	18.5 A	Rated current (Use group D / CSA)	18.5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059			
Institute (UR)	<i>51</i> .	Certificate No. (UR)	
			E60693
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packaging VPE width

Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
01 400	07 44 04 00	LINIODOO	00.04.40.40

VPE length

VPE height

eClass 9.0	27-44-04-02	eClass 9. I	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10
Notes			
Notes	Additional colours on	request	
	Gold-plated contact so	urfaces on request	
	Rated current related	to rated cross-section & min. No. of pole	S.
	Diameter of solder eye	elet D = 1.4+0.1mm	
	Solder eyelet diamete	r D = 1.5 + 0.1 mm, from 9 poles	
	• P on drawing = pitch		
	•	o the component itself. Clearance and c ance with the relevant application stanc	reepage distances to other components are to lards.
IPC conformity	standards and norms an	•	vered according international recognized the data sheet resp. fulfill decorative properties oducts can be evaluated on request.

Box

130 mm



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Technical data

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	MB SMT EN
	FL DRIVES DE
	MB DEVICE MANUF. EN
	CAT 2 PORTFOLIOGUIDE EN
	FL BUILDING SAFETY EN
	FL APPL LED LIGHTING EN
	FL INDUSTR.CONTROLS EN
	FL MACHINE SAFETY EN
	FL HEATING ELECTR EN
	FL APPL_INVERTER EN
	FL BASE STATION EN
	<u>FL ELEVATOR EN</u>
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	<u>STEP</u>
White paper surface mount technology	<u>Download Whitepaper</u>



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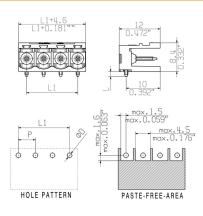
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Drawings

Dimensional drawing

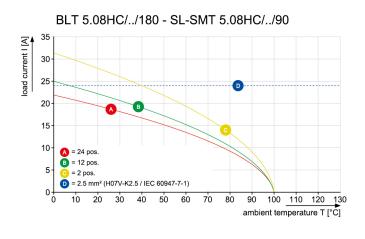


Product benefits



Safe power transmission **Product benefits** Proven properties

Graph







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Mating connector (fully pluggable)

BLZP 5.08HC/225 SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The 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

Туре	BLZP 5.08HC/23/225 SN O	Version	Product data	Packaging
Order No.	<u>1946460000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248622238	$225^{\circ}\text{, Clamping yoke connection, Clamping range, max.}:4~\text{mm}^2\text{, Box}$	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Otto	12 pc(s).			
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/23/225 SN B	Version	Product data	Packaging
				Packaging Box
Туре	BLZP 5.08HC/23/225 SN B		IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	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

Туре	BLF 5.08HC/23/180 SN BK	Version	Product data	Packaging
Order No.	<u>1013660000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248721795	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ² ,	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	12 pc(s).	Box	12	
Туре	BLF 5.08HC/23/180 SN OR	Version	Product data	Packaging
Order No.	1013920000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
Order No. GTIN (EAN)	1013920000 4032248722013	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23, 180° , PUSH IN, Spring connection, Clamping range, max. : 3.31mm^2 ,	, ,	



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Mating connector (fully pluggable)

BLZP 5.08HC/180 SN



Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The 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

Туре	BLZP 5.08HC/23/180 SN O	Version	Product data	Packaging
Order No.	1943790000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248617807	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
•				
Туре	BLZP 5.08HC/23/180 SN B	Version	Product data	Packaging
	BLZP 5.08HC/23/180 SN B 1944020000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
Туре			IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

BLL 5.08/180



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

Туре	BLL 5.08/23/180 3.2 SN	Version	Product data	Packaging
Order No.	1649000000	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190293482	connection, 5.08 mm, Number of poles: 23, 180°, Solder pin length	UL: 300 V / 15 A	
Qty.	12 pc(s).	(I): 3.2 mm, tinned, orange, Box		



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Mating connector (fully pluggable)

BLL 5.08/90



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

General ordering data

Туре	BLL 5.08/23/90 3.2 SN O	Version	Product data	Packaging
Order No.	1648520000	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190292997	connection, 5.08 mm, Number of poles: 23, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	12 pc(s).	3.2 mm, tinned, orange, Box		

BLL 5.08/180B



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

Туре	BLL 5.08/23/180B 3.2SN	Version	Product data	Packaging
Order No.	1682940000	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474706	solder connection, 5.08 mm, Number of poles: 23, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	12 pc(s).	length (I): 3.2 mm, tinned, orange, Box		



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Mating connector (fully pluggable)

BLZP 5.08HC/225B SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The 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

Туре	BLZP 5.08HC/23/225B SN	Version	Product data	Packaging
Order No.	<u>1946190000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248621767	225°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/23/225B SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/23/225B SN 1945960000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	Product data IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Packaging Box
• •	, ,		IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box

BLZP 5.08HC/270 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.

Туре	BLZP 5.08HC/23/270 SN B	Version	Product data	Packaging
Order No.	<u>1949230000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248626687	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/23/270 SN O	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/23/270 SN O 1949000000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
• •	, ,		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Вох



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Mating connector (fully 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.

	ordornig data			
Туре	BLZP 5.08HC/23/90 SN BK	Version	Product data	Packaging
Order No.	<u>1948450000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248624973	$90^{\circ}\text{, Clamping yoke connection, Clamping range, max.}:4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/23/90 SN OR	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/23/90 SN OR 1948220000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 23,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
				Вох



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Accessories

LED Light guides



Effective: the link between LED and front panel.

Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

General	ordering data			
Туре	SL FLA 3.8/1	Version	Product data	Packaging
Order No.	<u>1580110000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190050740	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 2,3/1	Version	Product data	Packaging
Order No.	<u>1636670000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Вох
GTIN (EAN)	4008190409975	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 2,3/24	Version	Product data	Packaging
Order No.	<u>1636680000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Вох
GTIN (EAN)	4008190409968	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 3.8/24	Version	Product data	
Order No.	<u>1595860000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
GTIN (EAN)	4008190140892	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 9.0/24	Version	Product data	
Order No.	<u>1595870000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
GTIN (EAN)	4008190079796	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 9.0/1	Version	Product data	Packaging
Order No.	<u>1580120000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190031909	Number of poles: 1		
Qty.	100 pc(s).			



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Accessories

Туре	SL FLA 1.5/1	Version	Product data	Packaging
Order No.	<u>1580100000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190152475	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 1.5/24	Version	Product data	
Order No.	<u>1595850000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
GTIN (EAN)	4008190092573	Number of poles: 1		
Qty.	10 pc(s).			

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

Туре	BLZ/SL KO OR BX	Version	Product data	Packaging
Order No.	<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number		Box
GTIN (EAN)	4008190048396	of poles: 1		
Qty.	100 pc(s).			
Туре	BLZ/SL KO BK BX	Version	Product data	Packaging
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Вох
Order No. GTIN (EAN)	1545710000 4008190087142	PCB plug-in connector, Accessories, Coding element, black, Number of poles: 1		Box
				Вох



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Accessories

Additional accessories



No task is too small when creating the perfect solution. br />

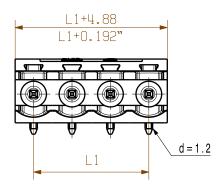
Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

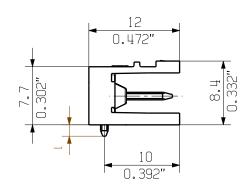
A system is not a system without small but useful details:

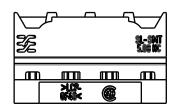
- Test plugs ensure reliable pick-up from diagnostic sockets
- Cross-connectors ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements divide a large number of male connectors into several separate socket connector channels
- Locks and clips optional vibration-resistant clipon connection or mounting for male and female connectors

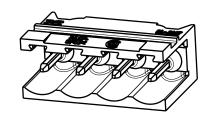
In tandem with the manufacturing process and application - more accessories = smaller workload

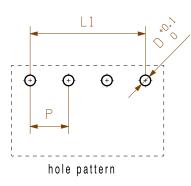
Туре	SL AT SW	Version	Product data	Packaging
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1		Box
GTIN (EAN)	4032248117710			
Qty.	100 pc(s).			
Туре	SL AT OR	Version	Product data	Packaging
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:		Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			

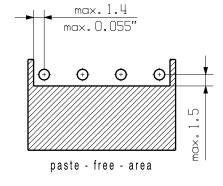












D = 1.4/0.055" or 1.5/0.059" (REFLOW SOLDERING) RECOMMENDATION FOR AUTOMATIC ASSEMBLY (1.4 mm FOR n = 2...8 / 1.5 mm for n = 9...24)

n = Polzahl / no of poles

P = Raster / pitch

For the mounting of PCBs, it should be noted that the rated data 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 5.08HC/04/90

RoHS

DIN ISO 2768-m

4.5	0.1/-0.3
3.2	0.1/-0.3
2.1	0.1/-0.3
1.5	-0.3
1	tolerance

15		71.12	2.800					
14		66.04	2.600	+/- 0.15				
13		60.96	2.400					
12		55.88	2.200					
11		50.80	2.000					
10		45.72	1.800					
	9	40.64	1.600					
	8	35.56	1.400					
7		30.48	1.200					
6		25.40	1.000					
5		20.32	0.800	+/- 0.1				
4		15.24	0.600					
3		10.16	0.400					
2		5.08	0.200					
no of poles		L1 [mm]	L1 [inch]	tolerance L1				
	Cat.no.:.							

33262

31

Issue no

sheets

2

Drawing no.

Sheet 01

24

23

22

21

20

19

18

17

16

116.84

111.76

106.68

101.60

96.52

91.44

86.36

81.28

76.20

4.600

4.400

4.200

4.000

3.800

3.600

3.400 3.200

3.000

+/-0.2

COMPLIANT	106339/4 30.07.18 HE	RTEL_S	00	We	eidmüller 🏂
	Modification				
		Date		Name	
	Drawn	29.11.20	07	HELIS_MA	SL-SMT 5.0
	Responsible	HERT		HERTEL_S	STIF
Scale: 2:1	Checked	01.08.20	18	KOCH_JG	MALE
Supersedes: .	Approved			LANG_T	Product file: SL-SMT 5.08

SL-SMT 5.08HC/../90...

STIFTLEISTE MALE HEADER

Product file: SL-SMT 5.08 7280



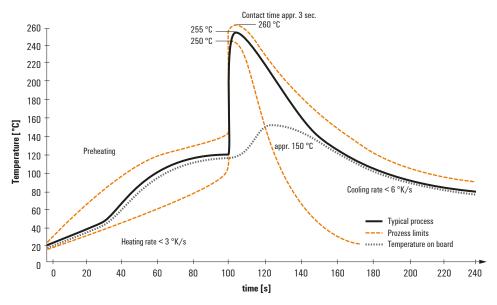
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

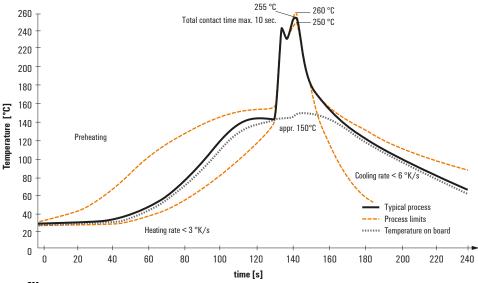
Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

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.

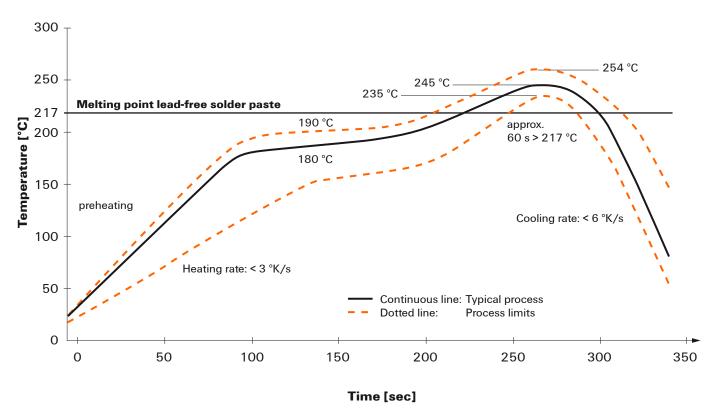


Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG

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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.