

### 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/17/90 3.2SN BK BX
Order No.	<u>1780100000</u>
Version	PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
GTIN (EAN)	4032248165421
Qty.	20 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

## **Technical data**



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### **Dimensions and weights**

Width	86.36 mm	Width (inches)	3.4 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Depth	12 mm
Depth (inches)	0.472 inch	Net weight	7.75 g

### **System specifications**

Product family	OMNIMATE Signal - series	Type of connection	
	BL/SL 5.08		Board connection
Mounting onto the PCB	THT/THR solder	Pitch in mm (P)	
	connection		5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
Number of poles	17	Number of solder pins per pole	1
Solder pin length (I)	3.2 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	81.28 mm	L1 in inches	3.2 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	llla
Comparative Tracking Index (CTI)	≥ 175	Insulation strength	≥ 10 <sup>8</sup> Ω
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 matt	Layer structure of plug contact	1-3 μm Ni / 2-4 μm Sn 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		Rated current, min. number of poles	
(Tu=20°C)	19 A	(Tu=40°C)	24 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	16.5 A	pollution degree II/2	400 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
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		

## **Technical data**

Rated data acc. to CSA



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Institute (CSA)	-	Certificate No. (CSA)	
	(3P*		
			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)	<b>R</b>	Certificate No. (UR)	50000
Poted veltage (Lee group P ( LH 1050)	300 V	Rated voltage (Use group D / UL 1059)	E60693 300 V
Rated voltage (Use group B / UL 1059) Rated current (Use group B / UL 1059)	18.5 A	Rated current (Use group D / UL 1059)	
Reference to approval values	Specifications are		
	maximum values, details - see approval certificate.		
Packing			
De alta ain a	Davi		45
Packaging VPE width	Box 60 mm	VPE length VPE height	45 mm 220 mm
	00 11111	VEL Height	220 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10
Notes			
Notes	Additional colours on request	1	
	Gold-plated contact surfaces	on request	
	Rated current related to rated	cross-section & min. No. of poles.	
	• Diameter of solder eyelet D =	1.4+0.1mm	
	• Solder eyelet diameter D = 1.	5 + 0.1 mm, from 9 poles	
	• P on drawing = pitch		
		omponent itself. Clearance and creepage distant ith the relevant application standards.	ces to other components are to
IPC conformity	standards and norms and comp	eveloped, manufactured and delivered according ly with the assured properties in the data sheet Class 2". Further claims on the products can be e	resp. fulfill decorative propertie

## **Technical data**

### Approvals

Approvals

ROHS



### Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	<u>MB SMT EN</u>
	<u>FL DRIVES DE</u>
	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
	FL ELEVATOR EN
	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	Download Whitepaper

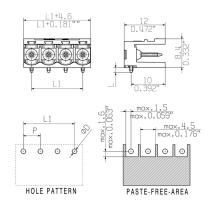


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## Drawings

### **Dimensional drawing**

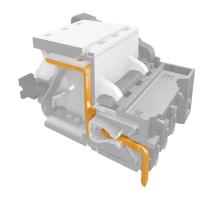


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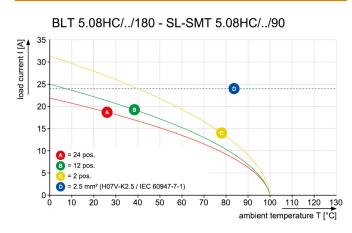
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### **Product benefits**



### Graph



Safe power transmission
Product benefits Proven properties



## Mating connector (fully pluggable)

### **BLF 5.08HC/90 SN**

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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**

Туре	BLF 5.08HC/17/90 SN BK	Version	Product data	Packaging
Order No.	<u>1000180001</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248690138	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup> ,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	18 pc(s).	Box	12	
Туре	BLF 5.08HC/17/90 SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/17/90 SN OR 1001680000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box

### **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/17/225 SN B	Version	Product data	Packaging
Order No.	<u>1946710000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248622481	$225^\circ\!,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	18 pc(s).			
Туре	BLZP 5.08HC/17/225 SN O	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/17/225 SN O <u>1946400000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
			IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box

Pullin

## Mating connector (fully pluggable)

### **BLF 5.08HC/180 SN**

### **General ordering data**

Туре	BLF 5.08HC/17/180 SN BK	Version	Product data	Packaging
Order No.	<u>1013590000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721733	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	18 pc(s).	Box	12	
Туре	BLF 5.08HC/17/180 SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/17/180 SN OR 1013850000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
	-, ,		IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	0.0

### 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/17/180 SN 0	Version	Product data	Packaging
Order No.	<u>1943730000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248617746	$180^\circ,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	18 pc(s).			
Ŧ				
Туре	BLZP 5.08HC/17/180 SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/17/180 SN B <u>1943960000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

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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

## Mating connector (fully pluggable)

BLL 5.08/180



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

General ordering data

Туре	BLL 5.08/17/180 3.2 SN	Version	Product data	Packaging
Order No.	<u>1648940000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190293420	connection, 5.08 mm, Number of poles: 17, 180°, Solder pin length	UL: 300 V / 15 A	
Qty.	18 pc(s).	(I): 3.2 mm, tinned, orange, Box		

### BLL 5.08/90



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

Туре	BLL 5.08/17/90 3.2 SN O	Version	Product data	Packaging
Order No.	<u>1648460000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190292935	connection, 5.08 mm, Number of poles: 17, 90°, Solder pin length (	): UL: 300 V / 15 A	
Qty.	18 pc(s).	3.2 mm, tinned, orange, Box		

## Mating connector (fully pluggable)

### **BLF 5.08HC/270 SN**

# PULLIN .



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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

Туре	BLF 5.08HC/17/270 SN OR	Version	Product data	Packaging
Order No.	<u>1982850000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248686940	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	18 pc(s).	Box	12	
Туре	BLF 5.08HC/17/270 SN BK	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/17/270 SN BK <u>1982080000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box

### BLL 5.08/180B



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

Туре	BLL 5.08/17/180B 3.2SN	Version	Product data	Packaging
Order No.	<u>1682880000</u>	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474645	solder connection, 5.08 mm, Number of poles: 17, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	18 pc(s).	length (I): 3.2 mm, tinned, orange, Box		

## Mating connector (fully pluggable)

### BLZP 5.08HC/225B SN



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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/17/225B SN	Version	Product data	Packaging
Order No.	<u>1945900000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621422	$225^\circ\!,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	!
Qty.	18 pc(s).			
Туре	BLZP 5.08HC/17/225B SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/17/225B SN <u>1946130000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
			IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	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.

### **General ordering data**

Туре	BLZP 5.08HC/17/270 SN B	Version	Product data	Packaging
Order No.	<u>1949170000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248626625	$270^\circ\!,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	18 pc(s).			
Туре	BLZP 5.08HC/17/270 SN 0	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/17/270 SN 0 <u>1948940000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

## Mating connector (fully pluggable)

### **BLZP 5.08HC/90 SN**





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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/17/90 SN OR	Version	Product data	Packaging
Order No.	<u>1948160000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624584	$90^\circ,$ Clamping yoke connection, Clamping range, max. : 4 $mm^2,$ Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	18 pc(s).			
Туре	BLZP 5.08HC/17/90 SN BK	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/17/90 SN BK <u>1948390000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17,		Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

## 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,		Box
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,		Box
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



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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	
Type Order No.	SL FLA 1.5/24 <u>1595850000</u>	Version PCB plug-in connector, Accessories, Flood-light display, Transparent,	Product data	
			Product data	

### **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	r	Box
GTIN (EAN)	4008190048396	of poles: 1		
Qty.	100 pc(s).			
Туре	BLZ/SL KO BK BX	Version	Product data	Packaging
Type Order No.	BLZ/SL KO BK BX 1545710000	Version PCB plug-in connector, Accessories, Coding element, black, Number	Product data	Packaging Box
	,		Product data	

## Accessories

### **Additional accessories**





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

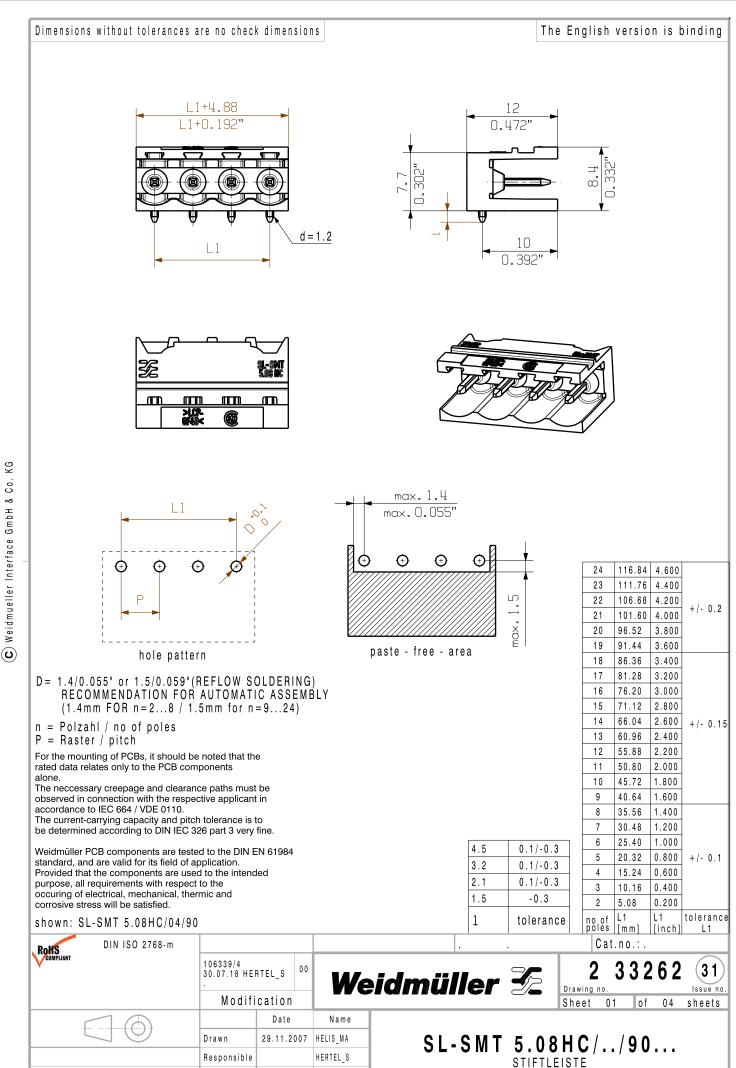
Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

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
Type Order No.	SL AT OR <u>1598300000</u>	Version PCB plug-in connector, Accessories, Spacer, orange, Number of pole		Packaging Box
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Scale: 2:1

Supersedes: .

7280

MALE HEADER

Product file: SL-SMT 5.08

## Wave Solder Profile

### **Recommended wave solderding profiles**

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**Double Wave:** 

Single 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.

## **Reflow Solder Profile**

### **Recommended reflow soldering profile**



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Time [sec]

### **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.