

#### 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 pin 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/18/90G 1.5SN BK BX
Order No.	<u>1775162001</u>
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I): 1.5 mm, tinned, black, Box
GTIN (EAN)	4032248156733
Qty.	20 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

Creation date May 3, 2020 12:37:12 PM CEST

## **Technical data**



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#### **Dimensions and weights**

Width	94.64 mm	Width (inches)	3.726 inch
Height	9.9 mm	Height (inches)	0.39 inch
Height of lowest version	8.4 mm	Depth	12 mm
Depth (inches)	0.472 inch	Net weight	8.45 g

#### **System specifications**

Product family	OMNIMATE Signal - series	Type of connection	Board 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	18	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	86.36 mm	L1 in inches	3.4 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	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)	
	CD.		
	NE.		
			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>AL</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.		
Packing			
Packaging	Box	VPE length	47 mm
VPE width	63 mm	VPE height	218 mm
Classifications			
ETINA C.O.	5000007	<b>FTIN 7</b> 0	5000007
ETIM 6.0 eClass 9.0	EC002637 27-44-04-02	ETIM 7.0 eClass 9.1	EC002637 27-44-04-02
eClass 9.0	27-44-04-02	UNSPSC	30-21-18-10
	27-44-04-02	0113F3C	30-21-10-10
Notes			
Notes	Gold-plated contact surfaces of	on request	
	Rated current related to rated	cross-section & min. No. of poles.	
	• Diameter of solder eyelet D =	1.4+0.1mm	
	<ul> <li>Solder eyelet diameter D = 1.</li> </ul>	5 + 0.1 mm, from 9 poles	
	• P on drawing = pitch		
	<ul> <li>Rated data refer only to the co</li> </ul>	omponent itself. Clearance and creepage distance	ces to other components are to
	be designed in accordance w	th the relevant application standards.	•
IPC conformity	standards and norms and compl	veloped, manufactured and delivered according y with the assured properties in the data sheet r Class 2". Further claims on the products can be e	esp. 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>
	FL DRIVES DE
	MB DEVICE MANUF. EN
	CAT 2 PORTFOLIOGUIDE EN
	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
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	<u>STEP</u>
White paper surface mount technology	Download Whitepaper

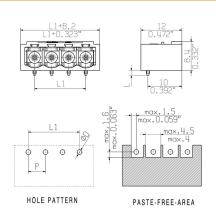


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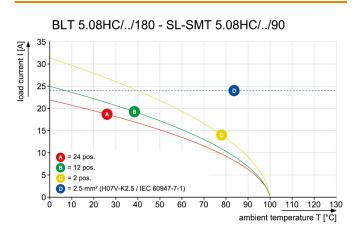
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### Drawings

#### **Dimensional drawing**



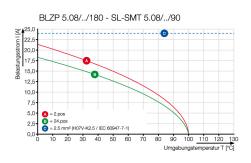
#### Graph





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### Safe power transmission **Product benefits** Proven properties

Graph





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## Mating connector (conditionally pluggable)

#### BLT 5.08HC/180B



Female plugs with TOP screw connection system for connecting wires with straight  $180^{\circ}$  outlet direction. The female connectors provide space for labelling and can be coded. HC = High Current.

Туре	BLT 5.08HC/18/180B SN 0	Version	Product data	Packaging
Order No.	<u>1503460000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190181215	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	18 pc(s).			

### Mating connector (fully pluggable)

BLL 5.08/180

#### General ordering data

Туре	BLL 5.08/18/180 3.2 SN	Version	Product data	Packaging
Order No.	<u>1648950000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190293437	connection, 5.08 mm, Number of poles: 18, 180°, Solder pin length	UL: 300 V / 15 A	
Qty.	18 pc(s).	(I): 3.2 mm, tinned, orange, Box		

#### BLF 5.08HC/270 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

#### **General ordering data**

Туре	BLF 5.08HC/18/270 SN BK	Version	Product data	Packaging
Order No.	<u>1982090000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248685783	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/18/270 SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/18/270 SN OR 1982860000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,		Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box



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Female header for PCB mounting. The solder pin length is

optimised for wave flow soldering.

### Mating connector (fully pluggable)

#### BLL 5.08/180B

#### **General ordering data**

	-			
Туре	BLL 5.08/18/180B 3.2SN	Version	Product data	Packaging
Order No.	<u>1682890000</u>	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474652	solder connection, 5.08 mm, Number of poles: 18, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	18 pc(s).	length (I): 3.2 mm, tinned, orange, Box		

#### 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/18/225B SN	Version	Product data	Packaging
Order No.	<u>1945910000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621439	225°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	18 pc(s).			
<b>-</b>				
Туре	BLZP 5.08HC/18/225B SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/18/225B SN <u>1946140000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,		Packaging Box
			IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box



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Female header for PCB mounting. The solder pin length is

optimised for wave flow soldering.

### 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.

#### **General ordering data**

Туре	BLZP 5.08HC/18/90 SN OR	Version	Product data	Packaging
Order No.	<u>1948170000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624591	$90^\circ,$ 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				
Type	BLZP 5.08HC/18/90 SN BK	Version	Product data	Packaging
Order No.	BL2P 5.08HC/18/90 SN BK <u>1948400000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
		PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,		Box

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



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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

#### BLF 5.08HC/18/90 SN BK ... Туре Version Product data Packaging 1000190001 Order No. PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18, IEC: 400 V / 24 A / 0.2 - 2.5 mm<sup>2</sup> Box 4032248690145 GTIN (EAN) 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 Packaging BLF 5.08HC/18/90 SN OR ... Tvpe Version Product data Order No. 1001690000 PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18, IEC: 400 V / 24 A / 0.2 - 2.5 mm<sup>2</sup> Box GTIN (EAN) 4032248693498 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

#### **General ordering data**

#### Creation date May 3, 2020 12:37:12 PM CEST

## Mating connector (fully pluggable)

BLZ 5.00/270





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Female plugs with clamping-yoke screw for wire connection with 270° outlet direction. The female plugs provide space for labelling and can be coded.

#### **General ordering data**

Туре	BLZ 5.00/18/270 SN DKGN	Version	Product data	Packaging
Order No.	<u>1650050000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 18,	IEC: 400 V / 15 A / 0.5 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190296643	$270^\circ\!,$ Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 1	2
Qty.	20 pc(s).	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.

Туре	BLZP 5.08HC/18/225 SN 0	Version	Product data	Packaging
Order No.	<u>1946410000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248622184	$225^\circ\!,$ 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/18/225 SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/18/225 SN B <u>1946720000</u>		Product data IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	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/18/180 SN BK	Version	Product data	Packaging
Order No.	<u>1013610000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721740	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/18/180 SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/18/180 SN OR 1013860000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,		Packaging Box
<i>·</i> ··			IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	00

#### **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/18/180 SN B	Version	Product data	Packaging
Order No.	<u>1943970000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248618125	180°, 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/18/180 SN 0	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/18/180 SN 0 <u>1943740000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,		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

### Creation date May 3, 2020 12:37:12 PM CEST

### Mating connector (fully pluggable)

BLL 5.08/90





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

#### **General ordering data**

Туре	BLL 5.08/18/90 3.2 SN O	Version	Product data	Packaging
Order No.	<u>1648470000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190292942	connection, 5.08 mm, Number of poles: 18, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	18 pc(s).	3.2 mm, tinned, orange, Box		

#### BLZ 5.00/180



Female plugs with clamping-yoke screw for wire connection with straight (180°) outlet direction. The female plugs provide space for labelling and can be coded.

Туре	BLZ 5.00/18/180 SN DKGN	Version	Product data	Packaging
Order No.	<u>1646980000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 18,	IEC: 400 V / 19 A / 0.5 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190288334	$180^\circ,$ Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	20 pc(s).	Box		

### Mating connector (fully pluggable)

#### 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/18/270 SN 0	Version	Product data	Packaging
Order No.	<u>1948950000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248626403	$270^\circ\!,$ 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/18/270 SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/18/270 SN B 1949180000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 18,		Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box



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Version

### Accessories

#### **LED Light guides**

### General ordering data

SL FLA 3.8/1

Tvpe

Type	3LT LA 3.0/ 1	Version	i iouuci uata	гаскаушу
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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#### 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

Product data

Packaging

### 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	
Order No.	<u>1595850000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
GTIN (EAN)	4008190092573	Number of poles: 1		
	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	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	0.0

### 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.

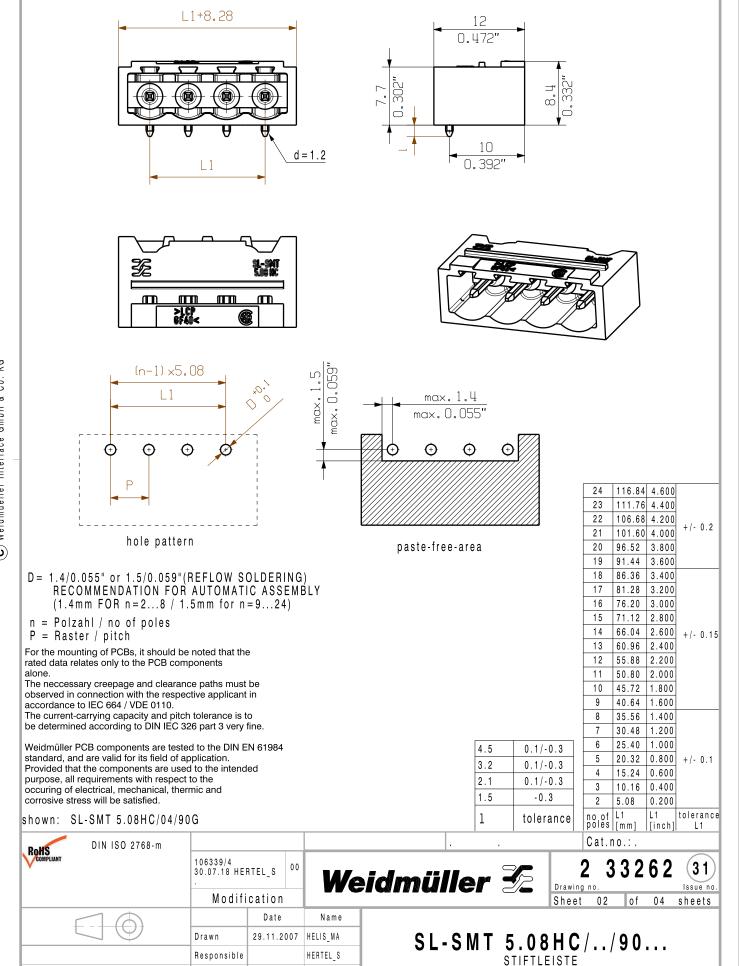
A system is not a system without small but useful details:

- 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 1598300000	Version PCB plug-in connector, Accessories, Spacer, orange, Number of poles		Packaging Box
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# Dimensions without tolerances are no check dimensions



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Approved

Scale: 2:1

Supersedes: .

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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.