

#### 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/07/90 1.5SN BK RL
Order No.	<u>1774814001</u>
Version	PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, Number of poles: 7, 90°, Solder pin length (I): 1.5 mm, tinned, black, Tape
GTIN (EAN)	4032248167708
Qty.	350 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Таре

## **Technical data**



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#### **Dimensions and weights**

Width	35.56 mm	Width (inches)	1.4 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	2.866 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	7	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	± 0.1 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerand	ce (D)+ 0,1 mm
L1 in mm	30.48 mm	L1 in inches	1.2 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)	
· ·	CD.		
	QL.		
			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)	77	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / 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			
Packaging	Таре	VPE length	1 mm
VPE width	1 mm	VPE height	1 mm
Tape depth (T2)	12.8 mm	Tape width (W)	56 mm
Tape pocket depth (KO)	12.3 mm	Tape pocket height (A0)	12.3 mm
Tape pocket width (BO)	35.66 mm	Tape pocket separation (P1)	16 mm
Tape hole separation (E)	1.75 mm	Tape pocket separation (F)	26.2 mm
Tape reel diameter ∅ (A)	330 mm	Surface resistance	$Rs = 10^9 - 10^{12} \Omega$
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

## **Technical data**

Notes

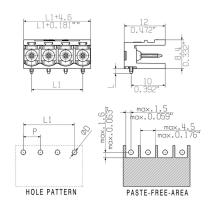


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Notes	Additional colours on request
	Gold-plated contact surfaces on request
	<ul> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> </ul>
	Diameter of solder eyelet D = 1.4+0.1mm
	<ul> <li>Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles</li> </ul>
	• P on drawing = pitch
	• Fondawing – pich
	<ul> <li>Rated data refer only to the component itself. Clearance and creepage distances to other components are to</li> </ul>
	be designed in accordance with the relevant application standards.
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.
Approvals	
Approvals	
, pp. oraio	
	(SP+ IIII)
ROHS	Conform
Downloads	
Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	<u>FL DRIVES EN</u>
	MB SMT EN
	<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	STEP
White paper surface mount technolog	gy Download Whitepaper

## Drawings

#### **Dimensional drawing**



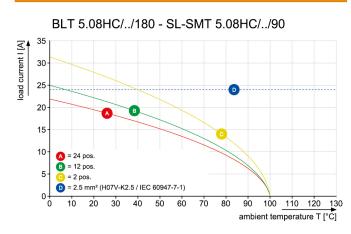
## Example of use



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.

#### **General ordering data**

Туре	BLT 5.08HC/07/180B SN 0	Version	Product data	Packaging
Order No.	<u>1502360000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190014346	180°, TOP connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	48 pc(s).			

## Mating connector (fully pluggable)

#### BLDF 5.08/180 SN



The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5A current-carrying capacity. The large clamping capacity (up to 2.5mm<sup>2</sup> wire crosssections) is particularly beneficial for long bus cables or high currents because of the low voltage drop. Four flange variations, including the patented release latch, allow for user-friendly unplugging designs.

#### **General ordering data**

Туре	BLDF 5.08/07/180 SN OR	Version	Product data	Packaging
Order No.	<u>1001200000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248817535	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	32 pc(s).	Box	26	
Туре	BLDF 5.08/07/180 SN BK	Version	Product data	Packaging
Type Order No.	BLDF 5.08/07/180 SN BK 1000910000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
			IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box

#### **BLC 5.08R**



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

#### **General ordering data**

Туре	BLC 5.08/07/180R OR BX	Version	Product data	Packaging
Order No.	<u>1610540000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190156398	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 1	4
Qty.	50 pc(s).			
Туре	BLC 5.08/07/180R BK BX	Version	Product data	Packaging
Type Order No.	BLC 5.08/07/180R BK BX 1712010000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 21 A	Packaging Box
				Box



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## 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 5.08/07/180 4.5SN B	Version	Product data	Packaging
Order No.	<u>1646300000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285647	connection, 5.08 mm, Number of poles: 7, 180°, Solder pin length (I	): UL: 300 V / 15 A	
Qty.	50 pc(s).	4.5 mm, tinned, black, Box		
Туре	BLL 5.08/07/180 3.2 SN	Version	Product data	Packaging
Type Order No.	BLL 5.08/07/180 3.2 SN <u>1630760000</u>	Version PCB plug-in connector, female header, closed side, THT solder	Product data IEC: 400 V / 23 A	Packaging Box
			IEC: 400 V / 23 A	

#### **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/07/270 SN BK	Version	Product data	Packaging
Order No.	<u>1981980000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248684670	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/07/270 SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/07/270 SN OR 1982750000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	00

## Mating connector (fully pluggable)

#### BLL 5.08/180B

#### **General ordering data**

Туре	BLL 5.08/07/180B 3.2SN	Version	Product data	Packaging
Order No.	<u>1682780000</u>	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474546	solder connection, 5.08 mm, Number of poles: 7, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	48 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/07/225B SN	Version	Product data	Packaging
Order No.	<u>1946030000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621569	$225^\circ,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
T				
Туре	BLZP 5.08HC/07/225B SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/07/225B SN <u>1945800000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	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



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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**



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/07/90 SN BK	Version	Product data	Packaging
Order No.	<u>1948290000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248624812	$90^\circ,$ Clamping yoke connection, Clamping range, max. : 4 $mm^2,$ Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/07/90 SN OR	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/07/90 SN OR 1948050000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
				Box

#### **BLDT 5.08B**



Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

#### **General ordering data**

Туре	BLDT 5.08/07/-B SN OR BX	Version	Product data	Packaging
Order No.	<u>1651790000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190400477	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 1	2
Qty.	40 pc(s).	Box		
Туре	BLDT 5.08/07/-B SN BK BX	Version	Product data	Packaging
Type Order No.	BLDT 5.08/07/-B SN BK BX 1673830000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
			IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box



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## 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/07/90 SN BK	Version	Product data	Packaging
Order No.	<u>1000080001</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248690015	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
/-	10 00(0)	20/	•=	
Туре	BLF 5.08HC/07/90 SN OR	Version	Product data	Packaging
· · ·				Packaging Box
Туре	BLF 5.08HC/07/90 SN OR	Version	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm²	00

#### **BLDT 5.08**



Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

#### **General ordering data**

Туре	BLDT 5.08/07/- SN BK BX	Version	Product data	Packaging
Order No.	<u>1660760000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4008190417215	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 12	2
Qty.	40 pc(s).	Box		
Туре	BLDT 5.08/07/- SN OR BX	Version	Product data	Packaging
Type Order No.	BLDT 5.08/07/- SN OR BX 1644780000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
			IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup>	Box

## Mating connector (fully pluggable)

#### **BLZP 5.08HC/225 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/07/225 SN 0	Version	Product data	Packaging
Order No.	<u>1946300000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248621873	$225^\circ\!,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/07/225 SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/07/225 SN B 1946610000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
<i>·</i> ·			IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup>	Box

#### **BLC 5.08BR**



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

Туре	BLC 5.08/07/180BR OR BX	Version	Product data	Packaging
Order No.	<u>1649420000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190294533	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 1	4
Qty.	50 pc(s).			
Туре	BLC 5.08/07/180BR BK BX	Version	Product data	Packaging
Type Order No.	BLC 5.08/07/180BR BK BX 1712160000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 21 A	Packaging Box
				Box

Pullin

## Mating connector (fully pluggable)

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

## **General ordering data**

Туре	BLF 5.08HC/07/180 SN OR	Version	Product data	Packaging
Order No.	<u>1013740000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248721856	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm <sup>2</sup>	², UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/07/180 SN BK	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/07/180 SN BK 1013480000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
				Box

#### **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/07/180 SN 0	Version	Product data	Packaging
Order No.	<u>1943630000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248617630	$180^\circ,$ Clamping yoke connection, Clamping range, max. : 4 $mm^2,$ Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/07/180 SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/07/180 SN B <u>1943860000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

## Weidmüller Interface GmbH & Co. KG

Weidmüller 🟵

Klingenbergstraße 26 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

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

## 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 5.08/07/90 3.2 SN O	Version	Product data	Packaging
Order No.	<u>1622990000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190194048	connection, 5.08 mm, Number of poles: 7, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	48 pc(s).	3.2 mm, tinned, orange, 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/07/270 SN B	Version	Product data	Packaging
Order No.	<u>1949070000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248626526	$270^\circ\!,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/07/270 SN 0	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/07/270 SN 0 1948840000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 7,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

## Accessories

#### **LED Light guides**

#### **General ordering data**

Туре

SL FLA 3.8/1

Creation	date Ma	ау З,	2020	12:27:57	PM CEST
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#### Weidmüller Interface GmbH & Co. KG

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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

A008190050740       Number of poles: 1         Aty.       100 pc(s).         Ype       SL FLA 2.3/1       Version       Product data       Packaging         Box       1636670000       PCB plug-in connector, Accessories, Flood-light display, Transparent,       Box         A008190409975       Number of poles: 1       Box         StTIN (EAN)       4008190409975       Number of poles: 1         Aty.       100 pc(s).       Product data       Packaging         StTIN (EAN)       4008190409975       Number of poles: 1       Box         Aty.       100 pc(s).       Product data       Packaging         StTIN (EAN)       4008190409968       Number of poles: 1       Box         Aty.       10 pc(s).       Box       Box         Ype       SL FLA 3.8/24       Version       Product data       Packaging         Order No.       1595860000       PCB plug-in connector, Accessories, Flood-light display, Transparent,       Transparent, <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
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lty. 100 pc(s).	GTIN (EAN)	4008190031909	Number of poles: 1		
	Qty.	100 pc(s).			



Version

Packaging

## Accessories



#### Weidmüller Interface GmbH & Co. KG

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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		
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	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	00

## 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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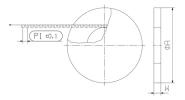
## Drawings



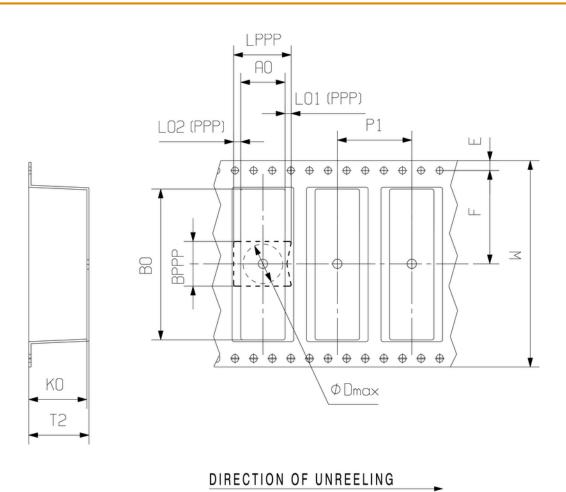
#### Weidmüller Interface GmbH & Co. KG

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#### Dimensional drawing



#### **Dimensional drawing**



## 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.