

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/04/90G 1.5SN BK RL
Order No.	<u>1775024001</u>
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (I): 1.5 mm, tinned, black, Tape
GTIN (EAN)	4032248167746
Qty.	350 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Tape

Creation date May 3, 2020 12:32:39 PM CEST



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Technical data

Dimensions and weights

Width	23.52 mm	Width (inches)	0.926 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	3.151 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	4	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	15.24 mm	L1 in inches	0.6 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	Illa
Comparative Tracking Index (CTI)	≥ 175	Insulation strength	≥ 10 ⁸ 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	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	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	27.5 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (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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Technical data

Rated data acc. to CSA

Institute (CSA)	Ø₽:	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

nated data acc. to OL 1055			
Institute (UR)	<i>27</i> 7.	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	Таре	VPE length	90 mm
VPE width	360 mm	VPE height	365 mm
Tape depth (T2)	12.8 mm	Tape width (W)	44 mm
Tape pocket depth (K0)	12.3 mm	Tape pocket height (A0)	12.3 mm
Tape pocket width (B0)	23.82 mm	Tape pocket separation (P1)	16 mm
Tape hole separation (E)	1.75 mm	Tape pocket separation (F)	20.2 mm
Tape reel diameter Ø (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

Notes	
Notes	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
	 Rated data refer only to the component itself. Clearance and creepage distances to other components are to 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.



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Technical data

Approvals

Approvals



ROHS Conform

White paper surface mount technology Download Whitepaper

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
	FL ELEVATOR EN
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP



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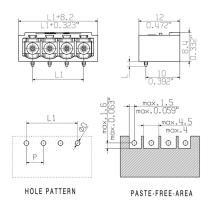
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Drawings

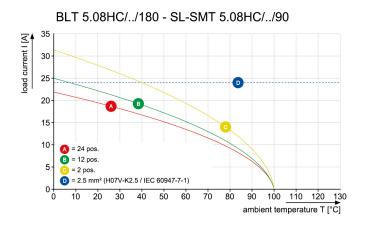
Dimensional drawing



Example of use



Dimensional drawing



Safe power transmission **Packaging drawing** Proven properties





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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° outlet direction. The female connectors provide space for labelling and can be coded. HC = High Current.

Туре	BLT 5.08HC/04/180B SN O	Version	Product data	Packaging
Order No.	<u>1502060000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190166441	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	78 pc(s).			



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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 2.5mm² wire cross-sections) 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 5.08/04/180 SN OR	Version	Product data	Packaging
Order No.	<u>1001170000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248818075	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	60 pc(s).	Вох	26	
Туре	BLDF 5.08/04/180 SN BK	Version	Product data	Packaging
Type Order No.	BLDF 5.08/04/180 SN BK 1000880000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	Product data IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Packaging Box
	, ,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ²	0 0

BLZ 5.08/90



Female plugs with clamping-yoke screw connection. The female plugs provide space for labelling and can be coded.

T	уре	BLZ 5.08/04/90 SN GY BX	Version	Product data	Packaging
0	rder No.	<u>1552900000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 15 A / 0.2 - 2.5 mm ²	Box
G	TIN (EAN)	4008190401566	$90^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 10 A / AWG 26 - AWG 12	
Q	ty.	90 pc(s).	Вох		



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Mating connector (fully pluggable)

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 5.08/04/180R BK BX	Version	Product data	Packaging
Order No.	<u>1711980000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190934996	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 1	4
Qty.	100 pc(s).			
Туре	BLC 5.08/04/180R OR BX	Version	Product data	Packaging
Order No.	<u>1610510000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190065102	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 1	4
Qty.	100 pc(s).			

BLL 5.08/180



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

Туре	BLL 5.08/04/180 4.5SN B	Version	Product data	Packaging
Order No.	<u>1646270000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285616	connection, 5.08 mm, Number of poles: 4, 180°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	100 pc(s).	4.5 mm, tinned, black, Box		
Туре	BLL 5.08/04/180 3.2 SN	Version	Product data	Packaging
Order No.	1687580000	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190853662	connection, 5.08 mm, Number of poles: 4, 180°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	90 pc(s).	3.2 mm, tinned, Pebble grey, Box		
Туре	BLL 5.08/04/180 4.5 SN	Version	Product data	Packaging
Order No.	<u>1646160000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285500	connection, 5.08 mm, Number of poles: 4, 180°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	90 pc(s).	4.5 mm, tinned, orange, Box		
Туре	BLL 5.08/04/180 3.2 SN	Version	Product data	Packaging
Order No.	<u>1630730000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190204150	connection, 5.08 mm, Number of poles: 4, 180°, Solder pin length (I):	UL: 300 V / 15 A	



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Mating connector (fully pluggable)

BLZ 5.08/180



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.

General ordering data

Туре	BLZ 5.08/04/180 SN DKGN	Version	Product data	Packaging
Order No.	<u>1526650000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190069056	$180^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 15 A / AWG 26 - AWG 1	2
Qty.	100 pc(s).	Box		
Туре	BLZ 5.08/04/180 SN OR B	Version	Product data	Packaging
Order No.	<u>1594260000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190001537	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 15 A / AWG 26 - AWG 1:	2
Qty.	90 pc(s).	Box		
Туре	BLZ 5.08/04/180 SN GY BX	Version	Product data	Packaging
Order No.	<u>1526600000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190287115	$180^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 15 A / AWG 26 - AWG 1	2
Qty.	100 pc(s).	Вох		

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

Туре	BLF 5.08HC/04/270 SN BK	Version	Product data	Packaging
Order No.	<u>1981950000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248684649	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	90 pc(s).	Box	12	



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Mating connector (fully pluggable)

Туре	BLF 5.08HC/04/270 SN OR	Version	Product data	Packaging
Order No.	<u>1982720000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248686810	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	90 pc(s).	Box	12	

BLL 5.08/180B



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

General ordering data

Туре	BLL 5.08/04/180B 3.2SN	Version	Product data	Packaging
Order No.	<u>1682750000</u>	PCB plug-in connector, female header, Dovetails for fixing blocks, THT	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190474515	solder connection, 5.08 mm, Number of poles: 4, 180°, Solder pin	UL: 300 V / 15 A	
Qty.	78 pc(s).	length (I): 3.2 mm, tinned, orange, Box		

BLZF 5.08/180



Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

Туре	BLZF 5.08/04/180 SN DKG	Version	Product data	Packaging
Order No.	<u>1707940000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 17 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190317355	$180^{\circ}\text{, Tension-clamp connection, Clamping range, max.}: 3.31~\text{mm}^2\text{,}$	n², UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	90 pc(s).	Вох		



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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/04/225B SN	Version	Product data	Packaging
Order No.	<u>1945770000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248621248	225°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	78 pc(s).			
_				
Type	BLZP 5.08HC/04/225B SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/225B SN 1946000000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	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	Вох

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.

Туре	BLZP 5.08HC/04/90 SN OR	Version	Product data	Packaging
Order No.	1948020000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248624249	$90^{\circ}\text{, Clamping yoke connection, Clamping range, max.}:4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 1:	2
Qty.	90 pc(s).			
Туре	BLZP 5.08HC/04/90 SN BK	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/90 SN BK 1948260000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
• •				Вох



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Mating connector (fully pluggable)

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 5.08/04/-B SN OR BX	Version	Product data	Packaging
Order No.	<u>1651760000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190400446	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 1:	2
Qty.	70 pc(s).	Вох		
Туре	BLDT 5.08/04/-B SN BK BX	Version	Product data	Packaging
Order No.	<u>1673800000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190435530	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 1:	2

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

Туре	BLF 5.08HC/04/90 SN BK	Version	Product data	Packaging
Order No.	<u>1000050001</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248689989	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	90 pc(s).	Box	12	
Туре	BLF 5.08HC/04/90 SN OR	Version	Product data	Packaging
Order No.	1001550000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248693351	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	



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Mating connector (fully pluggable)

BLZ 5.00/270



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

Тур	ре	BLZ 5.00/04/270 SN DKGN	Version	Product data	Packaging
Ord	der No.	<u>1649910000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,	IEC: 400 V / 15 A / 0.5 - 2.5 mm ²	Box
GT	IN (EAN)	4008190296490	$270^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 3.31~\text{mm}^2\text{,}$	UL: 300 V / 10 A / AWG 26 - AWG 12	2
Qty	<i>/</i> .	100 pc(s).	Box		

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.

Туре	BLDT 5.08/04/- SN OR BX	Version	Product data	Packaging
Order No.	<u>1644750000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190283964	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 1	2
Qty.	75 pc(s).	Вох		
Туре	BLDT 5.08/04/- SN BK BX	Version	Product data	Packaging
Type Order No.	BLDT 5.08/04/- SN BK BX 1660730000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	Product data IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Packaging Box
	, ,		IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Вох



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

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/04/225 SN O	Version	Product data	Packaging
Order No.	<u>1946270000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248621842	$225^{\circ}\text{, Clamping yoke connection, Clamping range, max.}:4~\text{mm}^2\text{, Box}$	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	90 pc(s).			
Туре	BLZP 5.08HC/04/225 SN B	Version	Product data	Packaging
Order No.	<u>1946580000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Box
Order No. GTIN (EAN)	<u>1946580000</u> 4032248622351	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, 225°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	, ,	

BLC 5.08BR



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

Туре	BLC 5.08/04/180BR OR BX	Version	Product data	Packaging
Order No.	<u>1649390000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 21 A	Box
GTIN (EAN)	4008190294502	180°, Crimp connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 1	4
Qty.	100 pc(s).			
Turno	DI O E OO (OA (400DD DI) DV	v ·		
Type	BLC 5.08/04/180BR BK BX	Version	Product data	Packaging
Order No.	1712130000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 21 A	Packaging Box
	, ,			Вох



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Klingenbergstraße 26 D-32758 Detmold Germany

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

Mating connector (fully pluggable)

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

General ordering data

Туре	BLF 5.08HC/04/180 SN BK	Version	Product data	Packaging
Order No.	1013450000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248721603	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	90 pc(s).	Box	12	
Туре	BLF 5.08HC/04/180 SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/04/180 SN OR 1013710000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Packaging Box
	, ,		IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	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.

Туре	BLZP 5.08HC/04/180 SN 0	Version	Product data	Packaging
Order No.	<u>1943600000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248617593	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	90 pc(s).			
Туре	BLZP 5.08HC/04/180 SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/180 SN B 1943830000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	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



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

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 5.08/04/90 3.2 SN O	Version	Product data	Packaging
Order No.	<u>1622960000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190194024	connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	90 pc(s).	3.2 mm, tinned, orange, Box		
Туре	BLL 5.08/04/90 4.5 SN B	Version	Product data	Packaging
	, ,			. aonaging
Order No.	<u>1646050000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
Order No. GTIN (EAN)	, ,	PCB plug-in connector, female header, closed side, THT solder connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (I):		0 0

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 5.00/04/180 SN DKGN	Version	Product data	Packaging
Order No.	<u>1646840000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,	IEC: 400 V / 19 A / 0.5 - 2.5 mm ²	Box
GTIN (EAN)	4008190288051	$180^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 3.31~\text{mm}^2\text{,}$	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	100 pc(s).	Вох		



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Germany

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Mating connector (fully pluggable)

BLT 5.08HC



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

General ordering data

Туре	BLT 5.08HC/04/180 SN BL	Version	Product data	Packaging
Order No.	1499780000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248015467	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	90 pc(s).			

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/04/270 SN O	Version	Product data	Packaging
Order No.	<u>1948810000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248626267	$270^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	90 pc(s).			



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Germany

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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

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.	1636670000	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

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		Box
Order No. GTIN (EAN)	1545710000 4008190087142	PCB plug-in connector, Accessories, Coding element, black, Number of poles: 1		Box



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Klingenbergstraße 26 D-32758 Detmold

Germany

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

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).			



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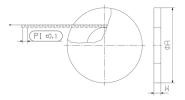
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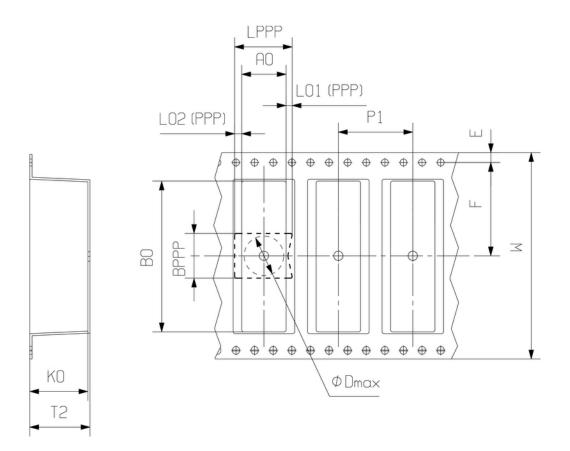
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Drawings

Dimensional drawing



Dimensional drawing



DIRECTION OF UNREELING



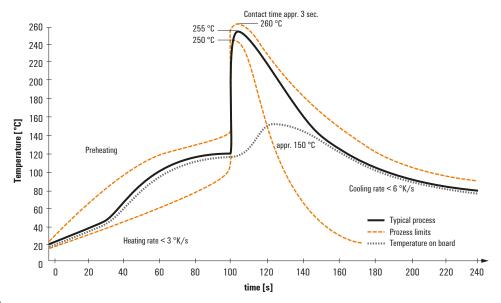
Recommended wave solderding profiles

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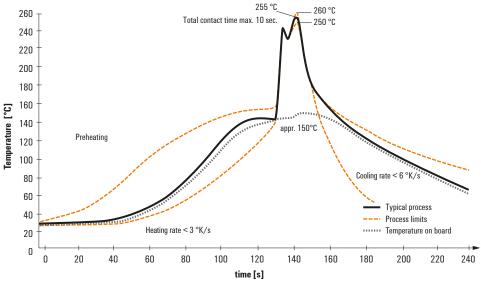
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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

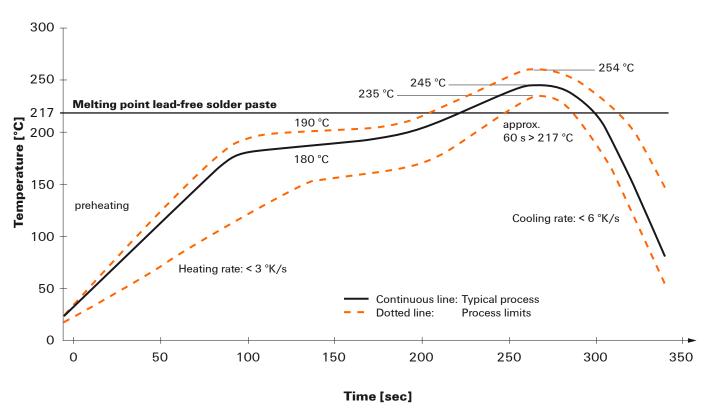


Recommended reflow soldering profile

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Klingenbergstraße 16 D-32758 Detmold Germany

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



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.