

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/04/180LF 1.5SN BK RL
Order No.	<u>1776384001</u>
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 5.08 mm, Number of poles: 4, 180°, Solder pin length (I): 1.5 mm, tinned, black, Tape
GTIN (EAN)	4032248163502
Qty.	250 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Tape

Creation date May 3, 2020 1:00:24 PM CEST



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Technical data

Dimensions and weights

Width	30.12 mm	Width (inches)	1.186 inch
Height	13.5 mm	Height (inches)	0.531 inch
Height of lowest version	12 mm	Depth	8.5 mm
Depth (inches)	0.335 inch	Net weight	4.572 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	180°
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)	1.5 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		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	27.5 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	16.5 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV		



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Technical data

Rated data acc. to CSA

Institute (CSA)	€ 13)	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 D / CSA)		Reference to approval values	Specifications are maximum values, details -
	18.5 A		see approval certificate.

Rated data acc. to UL 1059

Institute (UR) 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	Tape	VPE length	90 mm
VPE width	330 mm	VPE height	330 mm
Tape depth (T2)	17.5 mm	Tape width (W)	44 mm
Tape pocket depth (K0)	17 mm	Tape pocket height (A0)	8.2 mm
Tape pocket width (B0)	34 mm	Tape pocket separation (P1)	16 mm
Tape hole separation (E)	1.75 mm	Tape pocket separation (F)	20.2 mm
Tape reel diameter ∅ (A)	330 mm	Surface resistance	$Rs = 10^9 - 10^{12} \Omega$
Width Pick & Place Pad (W _{PPP})	9.6 mm	Length Pick & Place Pad (L _{PPP})	12.36 mm
Diameter of the withdrawal surface	(ø	Protrusion 1 Pick & Place Pad (L _{01 (PP}	PP))
D _{max})	8.5 mm		2 mm
Protrusion 2 Pick & Place Pad (P _{02 (P}	_{PP)}) 2.3 mm		

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10



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Technical data

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.

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of	CB Certificate
Conformity	<u>CB Testreport</u>
	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	WSCAD
Engineering Data	STEP
White paper surface mount technology	Download Whitepaper



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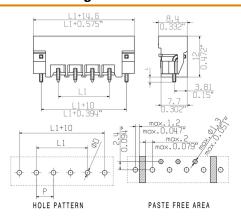
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Drawings

Dimensional drawing



Example of use



Safe power transmission **Product benefits** 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.

General ordering data

Туре	BLT 5.08HC/04/180B SN 0	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).			

BLZ 5.08/90



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

Туре	BLZ 5.08/04/90 SN GY BX	Version	Product data	Packaging
Order 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
GTIN (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 1	2
Qty.	90 pc(s).	Box		



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Mating connector (conditionally pluggable)

BLL 5.08/180



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

General ordering data

Туре	BLL 5.08/04/180 4.5SN B	Version	Product data	Packaging
Order No.	1646270000	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.	<u>1687580000</u>	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		

BLL 5.08/90



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

Туре	BLL 5.08/04/90 4.5 SN B	Version	Product data	Packaging
Order No.	1646050000	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285395	connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	90 pc(s).	4.5 mm, tinned, black, Box		



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Mating connector (conditionally 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°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	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		

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.

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	Вох
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).			



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Mating connector (conditionally pluggable)

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.	1707940000	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	$180^{\circ}\text{, Tension-clamp connection, Clamping range, max.}: 3.31~\text{mm}^{2}\text{,}$	UL: 300 V / 15 A / AWG 26 - AWG 1	2
Qty.	90 pc(s).	Вох		



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Mating connector (fully pluggable)

BLZP 5.08HC/180F 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/04/180F SN	Version	Product data	Packaging
Order No.	<u>1944350000</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)	4032248618927	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	60 pc(s).			
Туре	BLZP 5.08HC/04/180F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/180F SN 1944110000	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	Box

BLF 5.08HC/180LR 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/04/180LR SN	Version	Product data	Packaging
Order No.	1014390000	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)	4032248722969	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Вох	12	
Туре	BLF 5.08HC/04/180LR SN	Version	Product data	Packaging
Order No.	1014140000	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
Order No. GTIN (EAN)	1014140000 4032248723195	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, ,	



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Mating connector (fully pluggable)

BLF 5.08HC/270LR 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

General ordering data

Туре	BLF 5.08HC/04/270LR SN	Version	Product data	Packaging
Order No.	<u>1983100000</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)	4032248687190	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	
Туре	BLF 5.08HC/04/270LR SN	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/04/270LR SN 1982330000	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	Вох

BLZP 5.08HC/270F 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/04/270F SN	Version	Product data	Packaging
Order No.	<u>1950570000</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)	4032248628704	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	60 pc(s).			
Туре	BLZP 5.08HC/04/270F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/270F SN 1950330000	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	Box



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Mating connector (fully pluggable)

BLL 5.08/90FI



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

General ordering data

Туре	BLL 5.08/04/90FI 3.2SN	Version	Product data	Packaging
Order No.	<u>1843770000</u>	PCB plug-in connector, female header, Inverted flange, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4032248355525	connection, 5.08 mm, Number of poles: 4, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	60 pc(s).	3.2 mm, tinned, orange, Box		

BLT 5.08HC/180F



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

Туре	BLT 5.08HC/04/180F SN 0	Version	Product data	Packaging
Order No.	<u>1844010000</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)	4032248355938	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	60 pc(s).			
Туре	BLT 5.08HC/04/180F SN B	Version	Product data	Packaging
Order No.	<u>1844240000</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
CTINI (FANI)	4032248356171	180°, TOP connection, Clamping range, max.: 2.5 mm ² , Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
GTIN (EAN)	4032240330171	100 , 101 connection, clamping range, max. : 2.5 mm , box	02.000 V / 1771 / 71W G 20 71W G 1	•



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Mating connector (fully pluggable)

BLDF 5.08/180F 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 5.08/04/180F SN BK	Version	Product data	Packaging
Order No.	1000960000	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)	4032248817344	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	40 pc(s).	Box	26	
Type	BLDF 5.08/04/180F SN OR	Version	Product data	Packaging
Type Order No.	BLDF 5.08/04/180F SN OR 1059420000	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	Box

BLF 5.08HC/90LR SN



Just as reliable as the millionfold proven original and featuring innovative details:

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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/04/90LR SN 0	Version	Product data	Packaging
Order No.	1002300000	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)	4032248694464	$90^{\circ}\text{, PUSH IN, Spring connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Вох	12	
Туре	BLF 5.08HC/04/90LR SN B	Version	Product data	Packaging
.,,,,	DEI 3.00110/04/30EIT 31V D	version	i roduct data	r doktaging
Order No.	1000430001	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
• •	, ,			Box



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Mating connector (fully pluggable)

BLF 5.08HC/180F 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/04/180F SN 0	Version	Product data	Packaging
Order No.	1013110000	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)	4032248720866	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	
Туре	BLF 5.08HC/04/180F SN B	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/04/180F SN B 1012660000	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

BLT 5.08HC/180LR



Female plugs with TOP screw connection system for connecting wires with straight wire outlet and release latch mechanism. The female connectors provide space for labelling and can be coded. HC = High Current.

Туре	BLT 5.08HC/04/180LR SN	Version	Product data	Packaging
Order No.	<u>1890240000</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)	4032248498727	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	60 pc(s).			
Туре	BLT 5.08HC/04/180LR SN	Version	Product data	Packaging
Type Order No.	BLT 5.08HC/04/180LR SN 1894150000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4,	Product data IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Packaging Box
• •				Вох



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Mating connector (fully pluggable)

BLDF 5.08/180LR SN



The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5 A 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, so you can design the interlock based on the requirements of the user.

General ordering data

Туре	BLDF 5.08/04/180LR SN B	Version	Product data	Packaging
Order No.	1001030000	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)	4032248817382	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	40 pc(s).	Box	26	
Туре	BLDF 5.08/04/180LR SN O	Version	Product data	Packaging
Type Order No.	BLDF 5.08/04/180LR SN O 1065150000	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	Box

BLZP 5.08HC/90LR



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/04/90LR SN	Version	Product data	Packaging
Order No.	1087040000	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)	4032248853489	90°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 1	2
Qty.	60 pc(s).			
Туре	BLZP 5.08HC/04/90LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/90LR SN 1087270000	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)

BLZP 5.08HC/270LR 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/04/270LR SN	Version	Product data	Packaging
Order No.	<u>1947780000</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)	4032248624171	$270^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	60 pc(s).			
•	1-1-7-			
Туре	,	Version	Product data	Packaging
		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
Туре	BLZP 5.08HC/04/270LR SN		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

BLZP 5.08HC/90F 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/04/90F SN B	Version	Product data	Packaging
Order No.	<u>1950060000</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)	4032248627998	$90^{\circ}\text{, Clamping yoke connection, Clamping range, max.}:4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 1	2
Qty.	60 pc(s).			
Туре	BLZP 5.08HC/04/90F SN 0	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/04/90F SN O 1949820000	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)

BLZP 5.08HC/180LR 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/04/180LR SN	Version	Product data	Packaging
Order No.	<u>1945080000</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)	4032248620227	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	60 pc(s).			
•	1-1-7-			
Туре	,	Version	Product data	Packaging
		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
Туре	BLZP 5.08HC/04/180LR SN		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Вох

BLF 5.08HC/270F SN



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- 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/04/270F SN 0	Version	Product data	Packaging
Order No.	1982910000	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)	4032248687008	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	
Type	BLF 5.08HC/04/270F SN B	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/04/270F SN B 1982140000	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



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Mating connector (fully pluggable)

BLF 5.08HC/90F SN



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Туре	BLF 5.08HC/04/90F SN BK	Version	Product data	Packaging
Order No.	1000240001	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)	4032248690206	$90^{\circ}\text{, PUSH IN, Spring connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	60 pc(s).	Box	12	
_				
Туре	BLF 5.08HC/04/90F SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/04/90F SN OR 1002110000	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	Вох



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Accessories

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.

General ordering data

Туре	BLZ/SL KO OR BX	Version	Product data	Packaging
Order No.	<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Numbe	r	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
GTIN (EAN)	4008190087142	of poles: 1		
Qty.	50 pc(s).			

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			
Otv	100 pc/s)			



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Accessories

Type S	SL AT OR	Version	Product data	Packaging
Order No. 1	1598300000	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:		Box
GTIN (EAN) 4	1008190189266	1		
Qty. 1	100 pc(s).			



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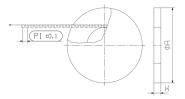
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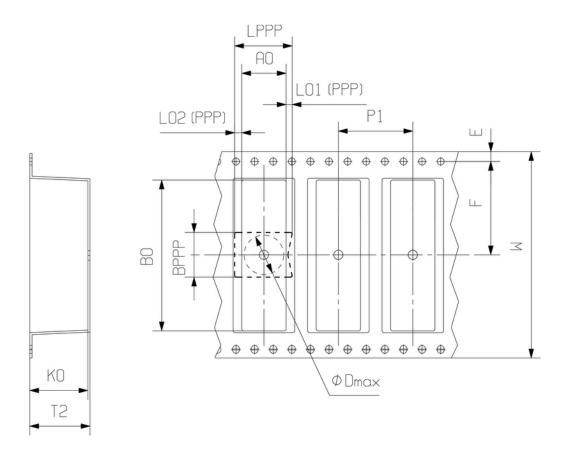
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Drawings

Dimensional drawing



Dimensional drawing



DIRECTION OF UNREELING



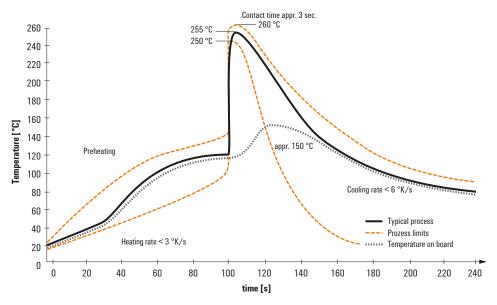
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

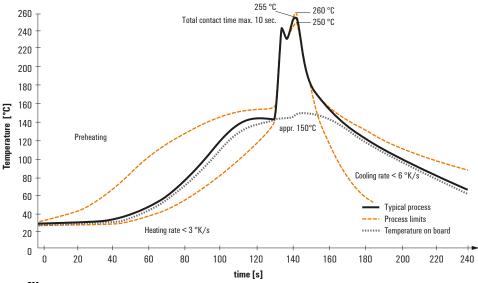
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Single Wave:



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.

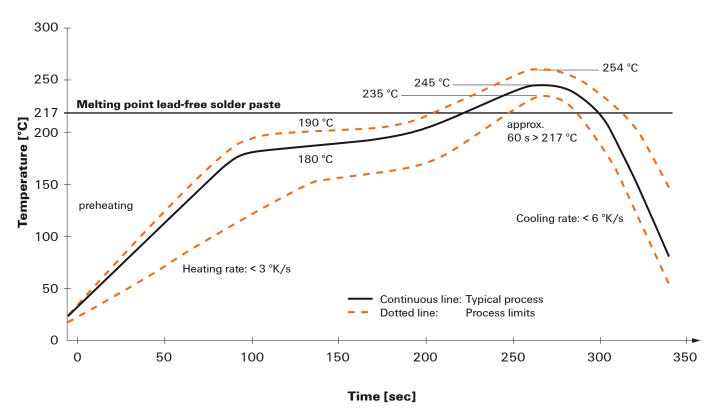


Recommended reflow soldering profile

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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.