

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/03/180LF 1.5SN BK BX
Order No.	<u>1776372001</u>
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 5.08 mm, Number of poles: 3, 180°, Solder pin length (I): 1.5 mm, tinned, black, Box
GTIN (EAN)	4032248159154
Qty.	72 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

Technical data



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Dimensions and weights

Width	25.04 mm	Width (inches)	0.986 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	2.45 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	3	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	10.16 mm	L1 in inches	0.4 inch
Number of rows	1	Pin series quantity	1
Volume resistance	≤ 5mΩ	Can be coded	Yes
Plugging cycles	25	Plugging force/pole, max.	9 N
Pulling force/pole, max.	7 N		

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	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 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 (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		

Technical data

Rated data acc. to CSA



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Institute (CCA)		Cortificate No. (CSA)	
Institute (CSA)		Certificate No. (CSA)	
	(SЕ		
			200039-1176845
Poted voltage (Llos group P. (CSA)	300 V	Poted veltage (Llos group D (CSA)	300 V
Rated voltage (Use group B / CSA) Rated current (Use group D / CSA)	300 V	Rated voltage (Use group D / CSA) Reference to approval values	Specifications are
	18.5 A	nelelence to apploval values	maximum values, details see approval certificate.
	10.5 A		see approval certificate.
Rated data acc. to UL 1059			
Institute (UR)	R	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)		Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are		
	maximum values, details - see approval certificate.		
Packing			
Packaging	Box	VPE length	45 mm
VPE width	110 mm	VPE height	180 mm
Classifications			
ETIM 6 O	50002627	ETINA 7.0	50002627
ETIM 6.0 eClass 9.0	EC002637 27-44-04-02	ETIM 7.0 eClass 9.1	EC002637 27-44-04-02
eClass 5.0 eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10
	27-44-04-02	UNGFGC	30-21-10-10
Notes			
N .	Gold-plated contact surfaces	on request	
Notes	Gold plated contact surfaces	on request	
Notes		cross-section & min. No. of poles.	
Notes		cross-section & min. No. of poles.	
Notes	Rated current related to rated	cross-section & min. No. of poles.	
Notes	 Rated current related to rated Diameter of solder eyelet D = 	cross-section & min. No. of poles.	
Notes	 Rated current related to rated Diameter of solder eyelet D = Solder eyelet diameter D = 1. P on drawing = pitch Rated data refer only to the comparison of the solution of the solution. 	cross-section & min. No. of poles.	es to other components are t

Technical data

Approvals

Approvals

ROHS



Downloads

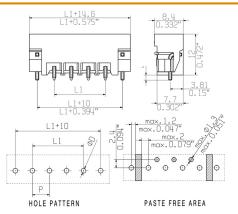
Approval/Certificate/Document of	<u>CB Certificate</u>
Conformity	<u>CB Testreport</u>
	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	<u>MB SMT EN</u>
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	CAT 2 PORTFOLIOGUIDE EN
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	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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Drawings

Dimensional drawing





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Product benefits



Safe power transmission **Product benefits** Proven properties



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Catalogue status 17.04.2020 / We reserve the right to make technical changes.



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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/03/180B SN 0	Version	Product data	Packaging
Order No.	<u>1501960000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190186586	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	102 pc(s).			
Туре	BLT 5.08HC/03/180B SN B	Version	Product data	Packaging
Туре Order No.	BLT 5.08HC/03/180B SN B 1501910000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Packaging Box
				Box

BLL 5.08/180



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

General ordering data

Туре	BLL 5.08/03/180 4.5SN O	Version	Product data	Packaging
Order No.	<u>1646150000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285494	connection, 5.08 mm, Number of poles: 3, 180°, Solder pin length (I)	: UL: 300 V / 15 A	
Qty.	100 pc(s).	4.5 mm, tinned, orange, Box		
Туре	BLL 5.08/03/180 4.5 SN	Version	Product data	Packaging
				00
Order No.	<u>1646260000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
Order No. GTIN (EAN)	<u>1646260000</u> 4008190285609	PCB plug-in connector, female header, closed side, THT solder connection, 5.08 mm, Number of poles: 3, 180°, Solder pin length (I)		Box



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Mating connector (conditionally 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 5.08/03/90 4.5 SN O	Version	Product data	Packaging
Order No.	<u>1645930000</u>	PCB plug-in connector, female header, closed side, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285272	connection, 5.08 mm, Number of poles: 3, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	120 pc(s).	4.5 mm, tinned, orange, Box		

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 5.08/03/180 SN OR B	Version	Product data	Packaging
Order No.	<u>1594250000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190011918	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm ² ,	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	120 pc(s).	Box		
Туре	BLZ 5.08/03/180 SN GY BX	Version	Product data	Packaging
Order No.	<u>1526500000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190267124	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm ² ,	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	100 pc(s).	Box		
Туре	BLZ 5.08/03/180 SN DKGN	Version	Product data	Packaging
Type Order No.	BLZ 5.08/03/180 SN DKGN 1526550000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Packaging Box
				Box
Order No.	<u>1526550000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	
Order No. GTIN (EAN)	<u>1526550000</u> 4008190143442	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm ² ,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box 2
Order No. GTIN (EAN) Qty.	1526550000 4008190143442 100 pc(s).	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box	IEC: 400 V / 19 A / 0.2 - 2.5 mm² UL: 300 V / 15 A / AWG 26 - AWG 12	Box 2
Order No. GTIN (EAN) Qty. Type	1526550000 4008190143442 100 pc(s). BLZ 5.08/03/180 SN BL BX	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box Version	IEC: 400 V / 19 A / 0.2 - 2.5 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12 Product data	Box 2 Packaging Box
Order No. GTIN (EAN) Qty. Type Order No.	1526550000 4008190143442 100 pc(s). BLZ 5.08/03/180 SN BL BX 1526580000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 19 A / 0.2 - 2.5 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12 Product data IEC: 400 V / 19 A / 0.2 - 2.5 mm ²	Box 2 Packaging Box



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Mating connector (conditionally 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/03/180 SN BL	Version	Product data	Packaging
Order No.	<u>1499680000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248015450	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	120 pc(s).			

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.

General ordering data

Туре	BLZF 5.08/03/180 SN GY	Version	Product data	Packaging
Order No.	<u>1708080000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 17 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4008190317515	180°, Tension-clamp connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 15 A / AWG 26 - AWG 1	2
Qty.	120 pc(s).	Box		

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/03/180F SN	Version	Product data	Packaging
Order No.	<u>1944100000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248617487	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	72 pc(s).			
Turne	DI 70 E 00110 (00 (100E 01)		D	
Туре	BLZP 5.08HC/03/180F SN	Version	Product data	Packaging
Order No.	BL2P 5.08HC/03/180F SN <u>1944340000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	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

General	ordering	data
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Туре	BLF 5.08HC/03/180LR SN	Version	Product data	Packaging
Order No.	<u>1014380000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248722976	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box	12	
Туре	BLF 5.08HC/03/180LR SN	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/03/180LR SN 1014130000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	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	0 0
Order No.	<u>1014130000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Packaging Box

Creation date May 3, 2020 12:59:14 PM CEST



Weidmüller Interface GmbH & Co. KG

Mating connector (fully pluggable)

BLF 5.08HC/270LR 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

General ordering data

Туре	BLF 5.08HC/03/270LR SN	Version	Product data	Packaging
Order No.	<u>1982320000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248686414	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box	12	
Туре	BLF 5.08HC/03/270LR SN	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/03/270LR SN 1983090000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	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/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.

General ordering data

Туре	BLZP 5.08HC/03/270F SN	Version	Product data	Packaging
Order No.	<u>1950320000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248628438	270°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	72 pc(s).			
Туре	BLZP 5.08HC/03/270F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/03/270F SN 1950560000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	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

Mating connector (fully pluggable)

BLL 5.08/90FI



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

General ordering data

Туре	BLL 5.08/03/90FI 3.2SN	Version	Product data	Packaging
Order No.	<u>1843760000</u>	PCB plug-in connector, female header, Inverted flange, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4032248355518	connection, 5.08 mm, Number of poles: 3, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	72 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.

General ordering data

Туре	BLT 5.08HC/03/180F SN 0	Version	Product data	Packaging
Order No.	<u>1844000000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248355921	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	72 pc(s).			
Туре	BLT 5.08HC/03/180F SN B	Version	Product data	Packaging
Type Order No.	BLT 5.08HC/03/180F SN B 1844230000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Packaging Box
				Box

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 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 5.08/03/180F SN OR	Version	Product data	Packaging
Order No.	<u>1012060000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248818037	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	48 pc(s).	Box	26	
Туре	BLDF 5.08/03/180F SN BK	Version	Product data	Packaging
Type Order No.	BLDF 5.08/03/180F SN BK 1000950000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	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



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In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

BLF 5.08HC/03/90LR SN B ... Туре Version Product data Packaging 1000420001 Order No. PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, IEC: 400 V / 24 A / 0.2 - 2.5 mm² Box 4032248690381 GTIN (EAN) 90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AWG Qty. 72 pc(s). Box 12 BLF 5.08HC/03/90LR SN 0 ... Tvpe Version Product data Packaging Order No. 1002290000 PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, IEC: 400 V / 24 A / 0.2 - 2.5 mm² Box GTIN (EAN) 4032248694457 90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AWG Qty. 72 pc(s). Box 12

General ordering data

Creation date May 3, 2020 12:59:14 PM CEST





Weidmüller Interface GmbH & Co. KG

Mating connector (fully pluggable)

BLF 5.08HC/180F SN

milling



Weidmüller Interface GmbH & Co. KG

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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/03/180F SN 0	Version	Product data	Packaging
Order No.	<u>1013090000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248853397	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Вох	12	
	1 ()			
Туре	BLF 5.08HC/03/180F SN B	Version	Product data	Packaging
		Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Packaging Box
Туре	BLF 5.08HC/03/180F SN B		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.

General ordering data

Туре	BLT 5.08HC/03/180LR SN	Version	Product data	Packaging
Order No.	<u>1890230000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248498710	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	72 pc(s).			
Туре	BLT 5.08HC/03/180LR SN	Version	Product data	Packaging
				00
Order No.	<u>1894140000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
Order No. GTIN (EAN)	<u>1894140000</u> 4032248508389	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, 180°, TOP connection, Clamping range, max. : 2.5 mm², Box	IEC: 400 V / 27 A / 0.2 - 2.5 mm² UL: 300 V / 17 A / AWG 26 - AWG 1	

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 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, so you can design the interlock based on the requirements of the user.

General ordering data

Туре	BLDF 5.08/03/180LR SN B	Version	Product data	Packaging
Order No.	<u>1001020000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248817641	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	48 pc(s).	Box	26	
Туре	BLDF 5.08/03/180LR SN 0	Version	Product data	Packaging
Type Order No.	BLDF 5.08/03/180LR SN O 1065140000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	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.

General ordering data

Туре	BLZP 5.08HC/03/90LR SN	Version	Product data	Packaging
Order No.	<u>1087260000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248853939	$90^\circ,$ Clamping yoke connection, Clamping range, max. : 4 $mm^2,$ Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	72 pc(s).			
Туре				
Type	BLZP 5.08HC/03/90LR SN	Version	Product data	Packaging
Order No.	BLZP 5.08HC/03/90LR SN <u>1087030000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
				Box



Weidmüller Interface GmbH & Co. KG

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/03/270LR SN	Version	Product data	Packaging
Order No.	<u>1947770000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248624164	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box UL: 300 V / 20 A / AWG 26 - AV		2
Qty.	72 pc(s).			
Туре	BLZP 5.08HC/03/270LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/03/270LR SN 1947540000		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

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.

General ordering data

Туре	BLZP 5.08HC/03/90F SN 0	Version	Product data	Packaging
Order No.	<u>1949810000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248627738	$90^\circ,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	72 pc(s).			
Туре	BLZP 5.08HC/03/90F SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/03/90F SN B 1950050000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
				Box



Weidmüller Interface GmbH & Co. KG

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/03/180LR SN	Version	Product data	Packaging
Order No.	<u>1944840000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248619443	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box UL: 300 V / 20 A / AWG 26 - AW		2
Qty.	72 pc(s).			
Туре	BLZP 5.08HC/03/180LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/03/180LR SN 1945070000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
<i>·</i> ·			IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

BLF 5.08HC/270F SN



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In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

BLF 5.08HC/03/270F SN B ... Туре Version Product data Packaging 1982130000 Order No. PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, IEC: 400 V / 24 A / 0.2 - 2.5 mm² Box 4032248686223 GTIN (EAN) 270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AWG Qty. 72 pc(s). Box 12 BLF 5.08HC/03/270F SN 0 ... Tvpe Version Product data Packaging Order No. 1982900000 PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, IEC: 400 V / 24 A / 0.2 - 2.5 mm² Box GTIN (EAN) 4032248686995 270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AWG Qty. 72 pc(s). Box 12

General ordering data

Creation date May 3, 2020 12:59:14 PM CEST





Weidmüller Interface GmbH & Co. KG

Mating connector (fully pluggable)

BLF 5.08HC/90F SN





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- 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/03/90F SN OR	Version	Product data	Packaging
Order No.	<u>1002100000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248694051	$90^\circ,$ PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box	12	
Туре	BLF 5.08HC/03/90F SN BK	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/03/90F SN BK 1000230001	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box

Accessories

Coding elements





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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	PCB plug-in connector, Accessories, Coding element, orange, Number		
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		Packaging Box	

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

General ordering data

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).			

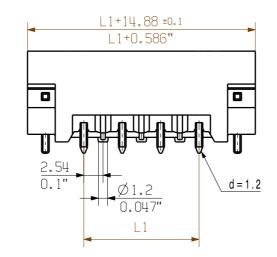
Creation date May 3, 2020 12:59:14 PM CEST

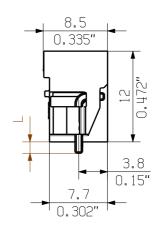
Accessories

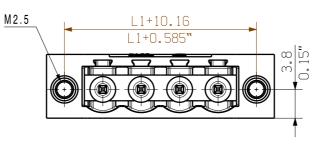


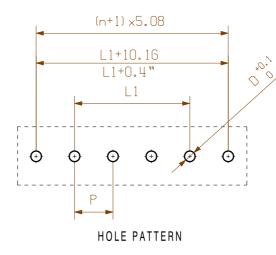
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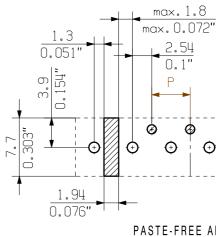
Туре	SL AT OR	Version	Product data	Packaging
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, o	brange, Number of poles:	Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			











D = 1.5/0.059"(REFLOW SOLDERING) RECOMMENDATION FOR AUTOMATIC ASSEMBLY

n = POLZAH/ NO OF POLES

P = RASTER/PITCH

SHOWN: SL-SMT 5.08HC/04/180 LF

	BOHS DIN ISO 2768-m							(Cat.no	.:.		
	DIN ISO 2768-m	106339/4 30.07.18 HEF	-	We	idmül	ler		C Drawing r	3	41	48	23 Issue no.
		Modifi	cation					Sheet	03	of	04	sheets
	$\square \square$		Date	Name								
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		Responsible		HERTEL_S			STIFTLE	•	• / •	00		
	Scale:2:1	Checked	01.08.2018	KOCH_JG			MALE HE	EADER				
	Supersedes: .	Approved		LANG_T	Product file: S	SL-SMT	5.08HC					7280

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.

The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 6198 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

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23 22

21

4,600 4,400

4,200

4,000

3,800

1:1

Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

Weidmüller Interface GmbH & Co. KG

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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.