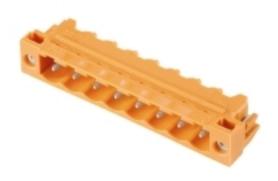


#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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



















#### Similar to illustration

Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

#### **General ordering data**

Туре	SL 5.08HC/05/90LF 3.2SN BK BX
Order No.	<u>1150380000</u>
Version	PCB plug-in connector, male header, Solder flange, THT solder connection, 5.08 mm, Number of poles: 5, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
GTIN (EAN)	4032248936397
Qty.	48 pc(s).
Product data	IEC: 400 V / 24 A UL: 300 V / 18.5 A
Packaging	Box

Creation date May 2, 2020 7:32:51 AM CEST



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

## **Technical data**

#### **Dimensions and weights**

Width	35.2 mm	Width (inches)	1.386 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Depth	12 mm
Depth (inches)	0.472 inch	Net weight	2.903 g

#### **System specifications**

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
Number of poles	5	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,03 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (	D)+ 0,1 mm	L1 in mm	20.32 mm
L1 in inches	0.8 inch	Number of rows	1
Pin series quantity	1	Volume resistance	≤ 5mΩ
Can be coded	Yes	Plugging cycles	25
Plugging force/pole, max.	10 N	Pulling force/pole, max.	7.5 N

#### **Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	Insulation strength	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	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 ℃	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.	-25 °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)	24 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	21 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 voltag	e 4 kV	Rated impulse voltage for surge voltage class/pollution degree III/2	4 kV

#### Rated data acc. to CSA

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) 10 A



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

## **Technical data**

#### Rated data acc. to UL 1059

Institute (cURus)	C SAL	Certificate No. (cURus)	
	<u> </u>		E60693
Rated voltage (Use group B / UL 1059)		Rated voltage (Use group D / UL 1059)	
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	40 mm
VPE width	66 mm	VPE height	165 mm
Classifications			
ETIMA C.O.	FC000C07	ETIM 7.0	FC000C07
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		
Notes			
Notes	Additional colours on request		
	Gold-plated contact surfaces of	on request	
	Rated current related to rated	cross-section & min. No. of poles.	
	• P on drawing = pitch		
	-	omponent itself. Clearance and creepage distand ith the relevant application standards.	ces to other components are to
IPC conformity	standards and norms and compl	veloped, manufactured and delivered according y with the assured properties in the data sheet Class 2". Further claims on the products can be or	resp. fulfill decorative properties
Approvals			
Approvals	90	1.5 - 1.4 -	
		I I I I K E MAI	
	C TO LICE	IIIIIII\EURI	
	C = 100	112011	

ROHS

Conform



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

## **Technical data**

#### **Downloads**

1 (0 :: " . (5	
Approval/Certificate/Document	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	<u>FL DRIVES EN</u>
	MB DEVICE MANUF. EN
	FL DRIVES DE
	CAT 2 PORTFOLIOGUIDE EN
	<u>FL BUILDING SAFETY EN</u>
	<u>FL APPL LED LIGHTING EN</u>
	FL INDUSTR.CONTROLS EN
	<u>FL MACHINE SAFETY EN</u>
	FL HEATING ELECTR EN
	<u>FL APPL_INVERTER EN</u>
	<u>FL_BASE_STATION_EN</u>
	<u>FL ELEVATOR EN</u>
	<u>FL POWER SUPPLY EN</u>
	FL 72H SAMPLE SER EN
	<u>PO OMNIMATE EN</u>
Engineering Data	STEP



Weidmüller Interface GmbH & Co. KG

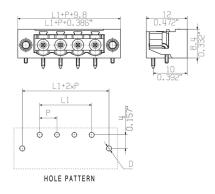
Klingenbergstraße 26 D-32758 Detmold

Germany

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

## **Drawings**

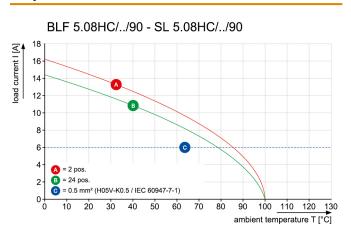
#### **Dimensional drawing**



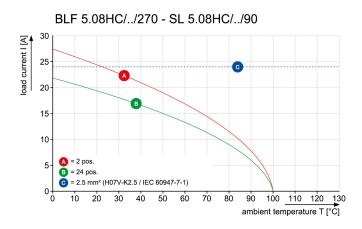
#### Graph

#### BLF 5.08HC/../90 - SL 5.08HC/../90 30 oad current I [A] 25 20 15 10 A = 2 pos. B = 24 pos. 5 © = 2.5 mm² (H07V-K2.5 / IEC 60947-7-1) 30 40 50 60 70 80 90 100 110 120 130 ambient temperature T [°C]

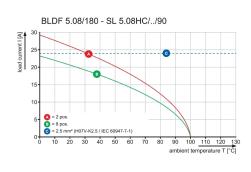
Graph



#### Graph



#### Graph





#### 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/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/05/180F SN	Version	Product data	Packaging
Order No.	<u>1944360000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248618934	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
•				
Туре	BLZP 5.08HC/05/180F SN	Version	Product data	Packaging
	BLZP 5.08HC/05/180F SN 1944120000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
Туре	, ,		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Вох

#### **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/05/180LR SN	Version	Product data	Packaging
Order No.	<u>1014410000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248722952	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/05/180LR SN	Version	Product data	Packaging
Order No.	1014150000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
Order No. GTIN (EAN)	1014150000 4032248723188	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5, 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	, ,	



#### 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)

#### **BLF 5.08HC/270LR 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/05/270LR SN	Version	Product data	Packaging
Order No.	<u>1983110000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248687206	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/05/270LR SN	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/05/270LR SN 1982340000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
	, ,		IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	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/05/270F SN	Version	Product data	Packaging
Order No.	<u>1950580000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248628711	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/05/270F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/05/270F SN 1950340000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
	, ,		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	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 5.08/90FI**



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

#### **General ordering data**

Туре	BLL 5.08/05/90FI 3.2SN	Version	Product data	Packaging
Order No.	1843780000	PCB plug-in connector, female header, Inverted flange, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4032248355532	connection, 5.08 mm, Number of poles: 5, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	48 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/05/180F SN B	Version	Product data	Packaging
Order No.	<u>1844250000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248356188	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	48 pc(s).			
Туре	BLT 5.08HC/05/180F SN O	Version	Product data	Packaging
Order No.	<u>1844020000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248355945	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	48 pc(s).			



#### 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)

#### **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 5.08/05/180F SN OR	Version	Product data	Packaging
Order No.	1065080000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248817856	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	32 pc(s).	Box	26	
Type	BLDF 5.08/05/180F SN BK	Version	Product data	Packaging
Type Order No.	BLDF 5.08/05/180F SN BK 1000970000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
• •	, ,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Вох

#### **BLF 5.08HC/90LR 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/05/90LR SN B	Version	Product data	Packaging
Order No.	1000440001	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248690404	$90^{\circ}\text{, PUSH IN, Spring connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/05/90LR SN O	Version	Product data	Packaging
	D2: 0:00:10/00/002110110		1 Todast data	. aonaging
Order No.	1002310000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
Order No. GTIN (EAN)	, ,		IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	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)

#### **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/05/180F SN B	Version	Product data	Packaging
Order No.	1012670000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248720323	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup>	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/05/180F SN O	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/05/180F SN O 1013120000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
	, ,		IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	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/05/180LR SN	Version	Product data	Packaging
Order No.	<u>1894160000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248508402	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	48 pc(s).			
_				
Туре	BLT 5.08HC/05/180LR SN	Version	Product data	Packaging
Order No.	BLT 5.08HC/05/180LR SN 1890250000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 27 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
• •				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)

#### **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 5.08/05/180LR SN B	Version	Product data	Packaging
Order No.	1001040000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248817467	180°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup>	UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	32 pc(s).	Box	26	
Type	BLDF 5.08/05/180LR SN O	Version	Product data	Packaging
Type Order No.	BLDF 5.08/05/180LR SN O 1065160000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
• •	, ,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm <sup>2</sup>	Box

#### **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/05/90LR SN	Version	Product data	Packaging
Order No.	<u>1087280000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248854462	90°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 1	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/05/90LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/05/90LR SN 1087050000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
• •	, ,			Box



#### 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/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/05/270LR SN	Version	Product data	Packaging
Order No.	<u>1947560000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248623853	$270^{\circ}\text{, Clamping yoke connection, Clamping range, max.}: 4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
Type	BLZP 5.08HC/05/270LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/05/270LR SN 1947790000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
• •	, ,		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

#### **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/05/90F SN O	Version	Product data	Packaging
Order No.	<u>1949830000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248627752	$90^{\circ}\text{, Clamping yoke connection, Clamping range, max.}:4~\text{mm}^2\text{, Box}$	UL: 300 V / 20 A / AWG 26 - AWG 1	2
Qty.	48 pc(s).			
Туре	BLZP 5.08HC/05/90F SN B	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/05/90F SN B 1950070000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
• •	, ,			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/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/05/180LR SN	Version	Product data	Packaging
Order No.	<u>1944860000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box
GTIN (EAN)	4032248619467	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	48 pc(s).			
_				
Type	BLZP 5.08HC/05/180LR SN	Version	Product data	Packaging
Order No.	BLZP 5.08HC/05/180LR SN 1945090000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Packaging Box
• •			IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup>	Box

#### **BLF 5.08HC/270F 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/05/270F SN B	Version	Product data	Packaging
Order No.	<u>1982150000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248686247	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm <sup>2</sup> ,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Вох	12	
Туре	BLF 5.08HC/05/270F SN 0	Version	Product data	Packaging
Order No.	100000000	DCP plus in connector female plus E OC page Number of polecy E	IEO 400 V ( 0.4 A ( 0.0 D.E. 2	D
Order No.	<u>1982920000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248687015	270°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm²,	, ,	



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)

#### **BLF 5.08HC/90F 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/05/90F SN OR	Version	Product data	Packaging
Order No.	1002120000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Box
GTIN (EAN)	4032248694075	$90^{\circ}\text{, PUSH IN, Spring connection, Clamping range, max.}: 3.31 \text{mm}^{2}\text{,}$	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	48 pc(s).	Box	12	
Туре	BLF 5.08HC/05/90F SN BK	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/05/90F SN BK 1000250001	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 5,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	Packaging Box
	, ,		IEC: 400 V / 24 A / 0.2 - 2.5 mm <sup>2</sup>	0 0



## Accessories

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

#### **Blocks for PCB mounting**





#### Minor component, major effect:

Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

Туре	SLA BB11R OR	Version	Product data	Packaging
Order No.	<u>1604120000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number	•	Box
GTIN (EAN)	4008190182977	of poles: 1		
Qty.	20 pc(s).			
Туре	SLA BB11R SW	Version	Product data	Packaging
Order No.	<u>1692340000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number of	of	Box
GTIN (EAN)	4008190864965	poles: 1		
Qty.	20 pc(s).			



Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold

Germany

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

### **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

General	ordering data			
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.	<u>1636670000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Вох
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,		Вох
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).			



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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

## **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
Type Order No.	BLZ/SL KO BK BX 1545710000	Version PCB plug-in connector, Accessories, Coding element, black, Number	Product data	Packaging Box
	,		Product data	0 0



Weidmüller Interface GmbH & Co. KG 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).			



Weidmüller Interface GmbH & Co. KG

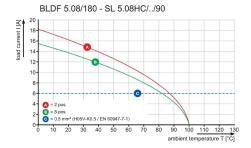
Klingenbergstraße 26 D-32758 Detmold

Germany Fon: +49 5231 14-0

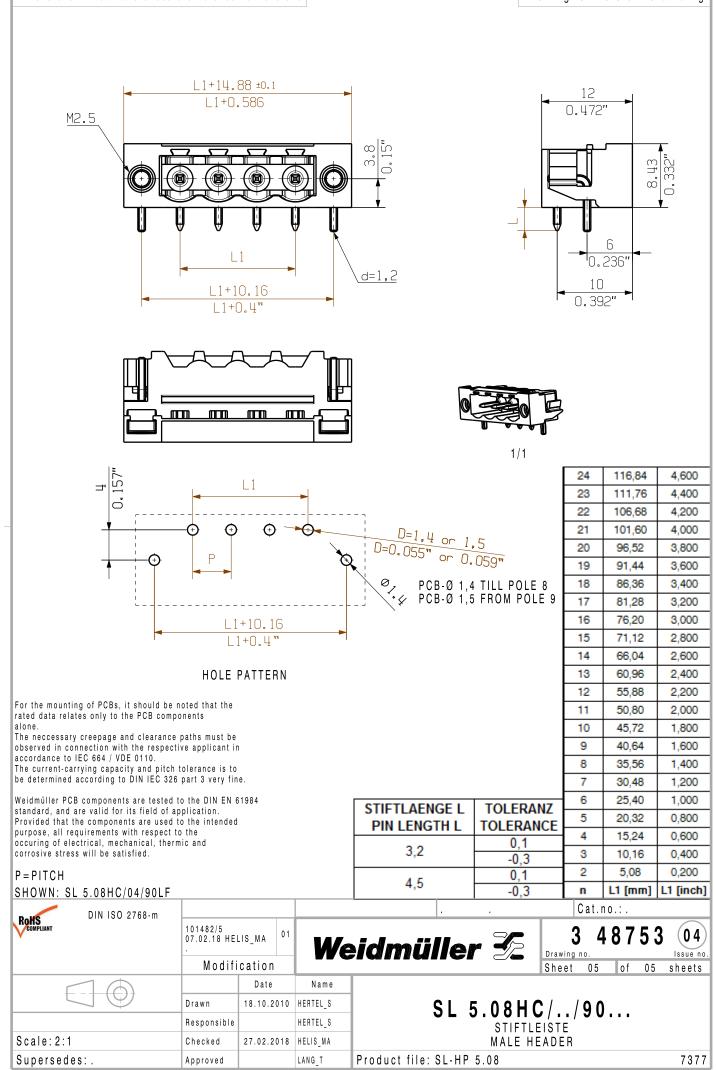
Fax: +49 5231 14-292083 www.weidmueller.com

## **Drawings**

#### Graph









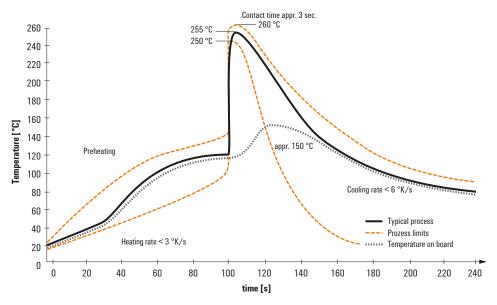
#### Recommended wave solderding profiles

#### Weidmüller Interface GmbH & Co. KG

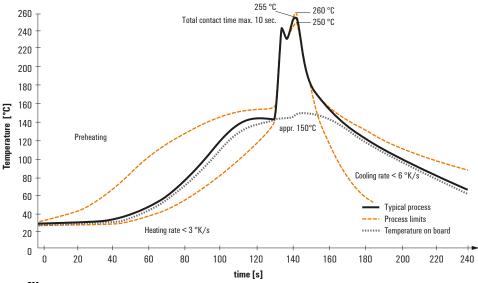
Klingenbergstraße 16 D-32758 Detmold Germany

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

#### 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.