

Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold Germany

www.weidmueller.com

Product image





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

Version	PCB plug-in connector, male header, closed side, THT solder connection, 5.08 mm, Number of poles: 2, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1147280000</u>
Туре	SL 5.08HC/02/90G 3.2SN OR BX
GTIN (EAN)	4050118051278
Qty.	100 pc(s).
Product data	IEC: 400 V / 24 A
	UL: 300 V / 18.5 A
Packaging	Box



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Board connection 5.08 mm 90°

+0.1 / -0.3 mm

0 / -0,03 mm

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Technical data

Depth	12 mm	Depth (inches)	0.472 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Width	13.36 mm
Width (inches)	0.526 inch	Net weight	1.26 g

System specifications

OMNIMATE Signal - series	Type of connection	Board conn
BL/ 3L 5.00		board conn
THT solder connection	Pitch in mm (P)	5.08 mm
0.2 inch	Outgoing elbow	90°
2	Number of solder pins per pole	1
3.2 mm	Solder pin length tolerance	+0.1 / -0.3
d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 m
1.3 mm	Solder eyelet hole diameter tolerance	(D)+ 0,1 mm
5.08 mm	L1 in inches	0.2 inch
1	Pin series quantity	1
IP20	Volume resistance	≤5 mΩ
Yes	Plugging force/pole, max.	10 N
7.5 N		
	BL/SL 5.08 THT solder connection 0.2 inch 2 3.2 mm d = 1.2 mm, Octagonal 1.3 mm 5.08 mm 1 IP20 Yes	BL/SL 5.08IITHT solder connectionPitch in mm (P)0.2 inchOutgoing elbow2Number of solder pins per pole3.2 mmSolder pin length toleranced = 1.2 mm, OctagonalSolder pin dimensions = d tolerance1.3 mmSolder eyelet hole diameter tolerance5.08 mmL1 in inches1Pin series quantityIP20Volume resistanceYesPlugging force/pole, max.

Material data

Insulating material	PA GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	UL 94 flammability rating	V-0
Contact material	CuMg	Contact surface	tinned
Layer structure of solder connection	13 µm Ni / 24 µm Sn matt	Layer structure of plug contact	13 µm Ni / 24 µm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
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		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	24 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	19 A	(Tu=40°C)	21 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	16.5 A	pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage	0201	Rated impulse voltage for surge voltage	200 1
class/ pollution degree II/2	4 kV	class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV		

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





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Institute (cURus)		Certificate No. (cURus)	
	c wus		
			E60693
Rated voltage (Use group B / UL 1059)	300 V	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	166 mm
VPE width	69 mm	VPE height	43 mm
Classifications			
	5000007	FT114 7 0	5000007
ETIM 6.0	EC002637	ETIM 7.0	EC002637
	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1 ECLASS 11.0	27-44-04-02 27-46-02-01	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-48-02-01		
Important note			
•			
	Conformity The products are de-		
	standards and norms and comply	reloped, manufactured and delivered according / with the assured properties in the data sheet r lass 2" Further claims on the products can be d	esp. fulfill decorative propertie
IPC conformity	standards and norms and comply		esp. fulfill decorative propertie
IPC conformity Notes	standards and norms and comply in accordance with IPC-A-610 "C	v with the assured properties in the data sheet r lass 2". Further claims on the products can be e	esp. fulfill decorative propertie
IPC conformity	standards and norms and comply in accordance with IPC-A-610 "C • Additional colours on request	v with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request	esp. fulfill decorative propertie
IPC conformity	standards and norms and comply in accordance with IPC-A-610 "C • Additional colours on request • Gold-plated contact surfaces o	v with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request	esp. fulfill decorative propertie
PC conformity	 standards and norms and comply in accordance with IPC-A-610 "C Additional colours on request Gold-plated contact surfaces of Rated current related to rated of P on drawing = pitch Rated data refer only to the colour 	v with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request	resp. fulfill decorative propertie
PC conformity	 standards and norms and comply in accordance with IPC-A-610 "C Additional colours on request Gold-plated contact surfaces o Rated current related to rated o P on drawing = pitch Rated data refer only to the con be designed in accordance with 	with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request cross-section & min. No. of poles.	esp. fulfill decorative propertie evaluated on request. eves to other components are to
PC conformity Notes	 standards and norms and comply in accordance with IPC-A-610 "C Additional colours on request Gold-plated contact surfaces o Rated current related to rated o P on drawing = pitch Rated data refer only to the con be designed in accordance with 	with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request cross-section & min. No. of poles. mponent itself. Clearance and creepage distance th the relevant application standards.	esp. fulfill decorative propertie evaluated on request. eves to other components are to
IPC conformity Notes Approvals	 standards and norms and comply in accordance with IPC-A-610 "C Additional colours on request Gold-plated contact surfaces o Rated current related to rated o P on drawing = pitch Rated data refer only to the col be designed in accordance wit Long term storage of the product 	with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request cross-section & min. No. of poles. mponent itself. Clearance and creepage distance th the relevant application standards. uct with average temperature of 50 °C and aver	esp. fulfill decorative propertie evaluated on request. eves to other components are t
PC conformity Notes Approvals	 standards and norms and comply in accordance with IPC-A-610 "C Additional colours on request Gold-plated contact surfaces o Rated current related to rated o P on drawing = pitch Rated data refer only to the col be designed in accordance wit Long term storage of the product 	with the assured properties in the data sheet r lass 2". Further claims on the products can be e n request cross-section & min. No. of poles. mponent itself. Clearance and creepage distance th the relevant application standards.	esp. fulfill decorative propertie evaluated on request. eves to other components are t
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Technical data



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Downloads	
Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Product Change Notification	EN - Change of packaging
	DE - Change of packaging
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN
	MB DEVICE MANUF. EN
	FL DRIVES DE
	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
	PO OMNIMATE EN

Drawings

Product image

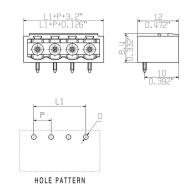
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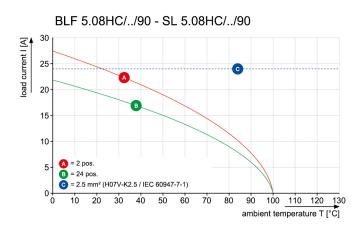
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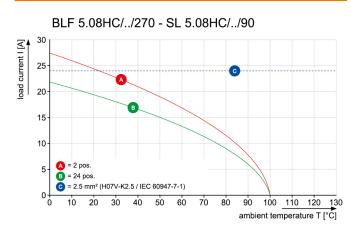
Dimensional drawing



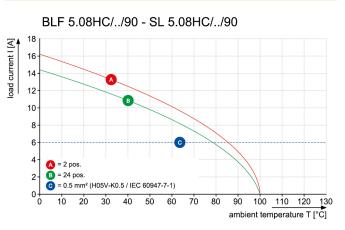
Graph



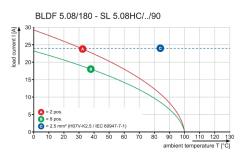
Graph



Graph



Graph



Accessories



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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.

General ordering data

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

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, Number	r	Box
GTIN (EAN)	4008190048396	of poles: 1		
Qty.	100 pc(s).			



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TypeBLZ/SL KO BK BXVersionProduct dataPackagingOrder No.1545710000PCB plug-in connector, Accessories, Coding element, black, NumberBoxGTIN (EAN)4008190087142of poles: 1Corpore: 1Qty.50 pc(s).50 pc(s).Corpore: 1

Additional accessories

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	General ordering data						
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).						
Туре	SL AT SW	Version	Product data	Packaging			
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, N	umber of poles: 1	Box			
GTIN (EAN)	4032248117710						
Qty.	100 pc(s).						

LED Light guides

Accessories

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 1.5/1	Version	Product data	Packaging
Order No.	1580100000	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190152475	Number of poles: 1		Dox
Qty.	100 pc(s).			
Туре	SL FLA 2,3/24	Version	Product data	Packaging
Order No.	1636680000	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190409968	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).			
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 2,3/1	Version	Product data	Packaging
Order No.	<u>1636670000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190409975	Number of poles: 1		
Qty.	100 pc(s).			





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Accessories

SL 5.08HC/02/90G 3.2SN OR BX



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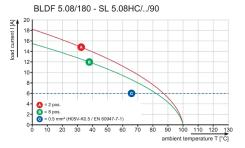
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SL FLA 1.5/24 Product data Туре Version Order No. 1595850000 PCB plug-in connector, Accessories, Flood-light display, Transparent, GTIN (EAN) 4008190092573 Number of poles: 1 Qty. 10 pc(s). Туре SL FLA 3.8/1 Version Product data Packaging Order No. 1580110000 PCB plug-in connector, Accessories, Flood-light display, Transparent, Box GTIN (EAN) 4008190050740 Number of poles: 1 100 pc(s). Qty.

Drawings

Graph





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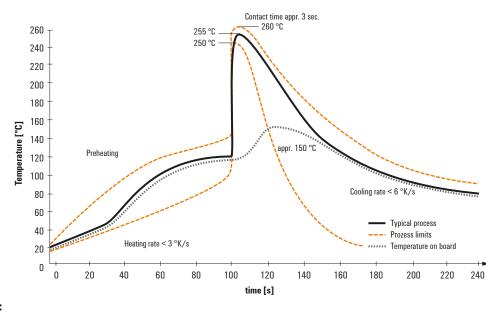
Wave Solder Profile

Recommended wave solderding profiles

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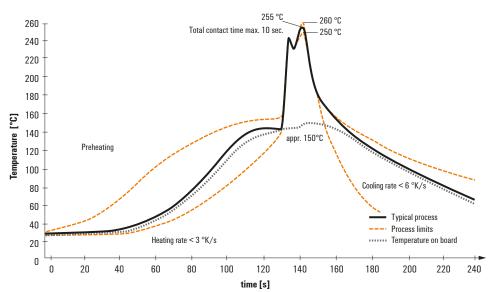
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Double Wave:

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.

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 880507
 MPT-275

 15602-04-08-21
 ELM023100
 BA311TU
 BA411SU
 MV-152
 MV-252-D
 MV-253/NCNOC
 MV-255
 MV-462
 MV-493
 MVE

 252
 MVE-253
 MVE-273
 MVEB-153
 1700096
 1705142
 1712417
 1713020
 1713088
 1745195
 1760594
 1776118-2
 1790852
 1-796689-8

 1-796692-6
 1800001
 1800114
 1995279
 20020314-C121B01LF
 CB2-12
 KP03215000J0G
 KP04215000J0G
 S451
 282802-2
 29.007
 29.116

 30.103
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 1095279
 20020314-C121B01LF
 CB2-12
 KP03215000J0G
 KP04215000J0G
 S451
 282802-2
 29.007
 29.116