

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

















Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male header, Dovetails for fixing blocks, THT solder connection, 5.00 mm, Number of poles: 8, 90°, Solder pin length (I): 4.5 mm, tinned, black, Box	
Order No.	<u>1626250000</u>	
Туре	SL 5.00/08/90B 4.5SN BK BX	
GTIN (EAN)	4008190197551	
Qty.	50 pc(s).	
Product data	IEC: 400 V / 18 A	
	UL: 300 V / 15 A	
Packaging	Вох	

Creation date July 12, 2025 12:58:17 PM CEST



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	12 mm	Depth (inches)	0.472 inch
Height	12.9 mm	Height (inches)	0.508 inch
Height of lowest version	8.4 mm	Width	42 mm
Width (inches)	1.654 inch	Net weight	2.834 g

System specifications

Product family	OMNIMATE Signal - series	Type of connection	
Troduct larring	BL/SL 5.00	Type of defineduali	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 "	Outgoing elbow	90°
Number of poles	8	Number of solder pins per pole	1
Solder pin length (I)	4.5 mm	Solder pin length tolerance	+0.1 / -0.2 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		D)+ 0,1 mm
L1 in mm	35 mm	L1 in inches	1.378 "
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 un- plugged
Protection degree	IP20	Volume resistance	≤5 mΩ
Can be coded	Yes	Plugging force/pole, max.	10 N
Pulling force/pole, max.	8 N		

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Layer structure of solder connection	13 µm Ni / 24 µm Sn	Layer structure of plug contact	13 μm Ni / 24 μm Sn
	matt		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	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	18 A
Rated current, max. number of poles (Tu=20°C)	14.5 A	Rated current, min. number of poles (Tu=40°C)	15 A
Rated current, max. number of poles (Tu=40°C)	12 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	Short-time withstand current resistance	3 x 1s with 120 A



Weidmüller Interface GmbH & Co. KG

168 mm

38 mm

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Rated data acc. to CSA

Institute (CSA)	€ P:	Certificate No. (CSA)	
	•		200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maxi- mum values, details - see approval certificate.		

nstitute (UR)	<i>51</i> 1.	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)	15 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packaging

VPE width

Classifications				
ETIM 6.0	EC002637	ETIM 7.0	EC002637	
ETIM 8.0	EC002637	ETIM 9.0	EC002637	
ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02	
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02	
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01	
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01	
ECLASS 15.0	27-46-02-01			

VPE length

VPE height

Approvals

Approvals	
Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm

Box

116 mm

Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Importan	t note
-----------------	--------

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized stan- dards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	Additional variants on request
	Gold-plated contact surfaces on request
	Rated current related to rated cross-section & min. No. of poles.
	• P on drawing = pitch
	 Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
	 In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
	\bullet Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months
Downloads	
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN FL DRIVES DE



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

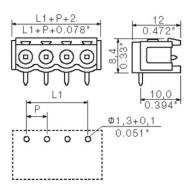
www.weidmueller.com

Drawings

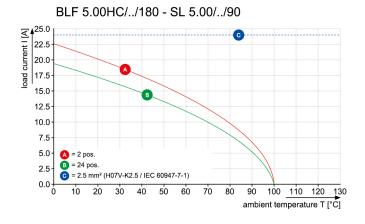
Product image



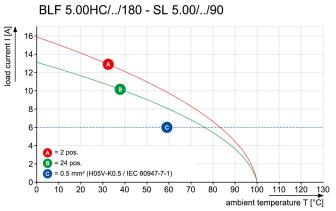
Dimensional drawing



Graph



Graph





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Accessories

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 BB12R SW	Version	Product data	Packaging
Order No.	<u>1626880000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number of	of	Box
GTIN (EAN)	4008190198213	poles: 0		
Qty.	100 pc(s).			
Туре	SLA BB1R OR	Version	Product data	Packaging
Order No.	<u>1723430000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	r	Box
GTIN (EAN)	4008190365981	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB12R OR	Version	Product data	Packaging
Order No.	<u>1593450000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	r	Box
GTIN (EAN)	4008190122164	of poles: 0		
Qty.	100 pc(s).			
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: 0		
Qty.	20 pc(s).			
Туре	SLA BB2R OR	Version	Product data	Packaging
Order No.	<u>1723440000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	r	Box
GTIN (EAN)	4008190365998	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB6R OR	Version	Product data	Packaging
Order No.	1723470000	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	r	Box
GTIN (EAN)	4008190366025	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB11R SW	Version	Product data	Packaging
Order No.	1692340000	PCB plug-in connector, Accessories, Mounting block, black, Number of	of	Box
GTIN (EAN)	4008190864965	poles: 0		
Qty.	20 pc(s).			



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Accessories

Туре	SLA BB6R SW	Version	Product data	Packaging
Order No.	1723520000	PCB plug-in connector, Accessories, Mounting block, black, N	Number of	Вох
GTIN (EAN)	4008190366070	poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB5R OR	Version	Product data	Packaging
Order No.	<u>1723460000</u>	PCB plug-in connector, Accessories, Mounting block, orange,	, Number	Box
GTIN (EAN)	4008190366018	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB2R SW	Version	Product data	Packaging
Order No.	<u>1723490000</u>	PCB plug-in connector, Accessories, Mounting block, black, N	Number of	Box
GTIN (EAN)	4008190366049	poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB1R SW	Version	Product data	Packaging
Order No.	<u>1723480000</u>	PCB plug-in connector, Accessories, Mounting block, black, N	Number of	Box
GTIN (EAN)	4008190366032	poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB5R SW	Version	Product data	Packaging
Order No.	<u>1723510000</u>	PCB plug-in connector, Accessories, Mounting block, black, N	Number of	Box
GTIN (EAN)	4008190366063	poles: 0		
Qty.	20 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 BK BX	Version	Product data	Packaging
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4008190087142	of poles: 1		
Qty.	50 pc(s).			
Type	BLZ/SL KO OR BX	Version	Product data	Packaging
Type Order No.	BLZ/SL KO OR BX 1573010000	Version PCB plug-in connector, Accessories, Coding element, orange, Number		Packaging Box
• •	,			0 0



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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 OR	Version	Product data	Packaging
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles	s:	Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			
Туре	SL AT SW	Version	Product data	Packaging
Order No.	1770240000	PCB plug-in connector, Accessories, Spacer, black, Number of poles:	1	Box
GTIN (EAN)	4032248117710			
Qty.	100 pc(s).			



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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

Туре	SL FLA 2,3/24	Version	Product data	Packaging
Order No.	<u>1636680000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190409968	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 3.8/1	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,		Box
GTIN (EAN)	4008190409975	Number of poles: 1		
Qty.	100 pc(s).			
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 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).			



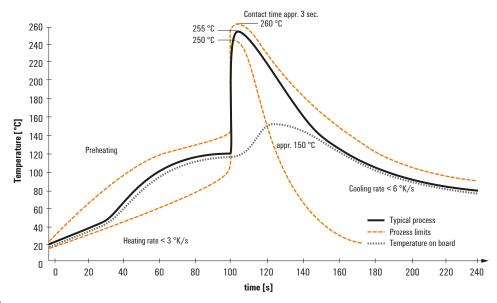
Recommended wave solderding profiles

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.