

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: 2, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1580860000</u>
Туре	SL 5.00/02/90B 3.2SN OR BX
GTIN (EAN)	4008190054489
Qty.	100 pc(s).
Product data	IEC: 400 V / 18 A UL: 300 V / 15 A
Packaging	Вох

Creation date January 26, 2022 10:38:11 AM CET



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Technical data

Dimensions	and v	veights
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Depth	12 mm	Depth (inches)	0.472 inch
Height	11.6 mm	Height (inches)	0.457 inch
Height of lowest version	8.4 mm	Width	12 mm
Width (inches)	0.472 inch	Net weight	0.93 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.00	Тур
Mounting onto the PCB	THT solder connection	Pito
Pitch in inches (P)	0.197 inch	Out
Number of poles	2	Nu
Solder pin length (I)	3.2 mm	Sol
Solder pin dimensions	d = 1.2 mm, Octagonal	Sol
Solder eyelet hole diameter (D)	1.3 mm	Sol
L1 in mm	5 mm	L1
Number of rows	1	Pin
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged	Tou 04
Protection degree	IP20	Vol
Can be coded	Yes	Plu
Pulling force/pole, max.	8 N	

Type of connection	
	Board connection
Pitch in mm (P)	5 mm
Outgoing elbow	90°
Number of solder pins per pole	1
Solder pin length tolerance	+0.1 / -0.2 mm
Solder pin dimensions = d tolerance	0 / -0,03 mm
Solder eyelet hole diameter tolerance (E	0)+ 0,1 mm
L1 in inches	0.197 inch
Pin series quantity	1
Touch-safe protection acc. to DIN VDE	
0470	IP20 plugged
Volume resistance	≤5 mΩ
Plugging force/pole, max.	10 N

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	CuSn	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		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(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

Technical data

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		0	
Institute (CSA)		Certificate No. (CSA)	
	(SЕ		
			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 maximum values, details - see approval certificate.		
Rated data acc. to UL 1059			
nstitute (UR)	R	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	
Rated current (Use group B / UL 1059)	15 A	Rated current (Use group D / UL 1059)	
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
	Dev		167 mm
Packaging VPE width	Box 69 mm	VPE length VPE height	43 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
TIM 8.0	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		
mportant note			
PC conformity	standards and norms and comp	eveloped, manufactured and delivered according ly with the assured properties in the data sheet r Class 2". Further claims on the products can be e	esp. fulfill decorative propertie
Votes	Additional colours on request	t	
	Gold-plated contact surfaces	on request	
	Rated current related to rated	cross-section & min. No. of poles.	
	• P on drawing = pitch		
		omponent itself. Clearance and creepage distanc ith the relevant application standards.	ces to other components are t





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Approvals	
Approvals	
ROHS	Conform
UL File Number Search	E60693
Downloads	
Approval/Certificate/Document Conformity	t of Declaration of the Manufacturer
Engineering Data	CAD data – STEP
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

Drawings

Product image

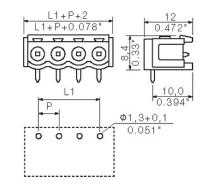


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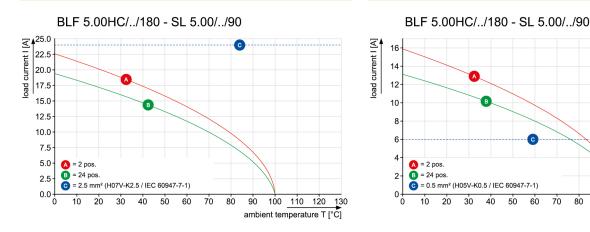
Dimensional drawing



40 50 60 70 80 90

Graph

Graph



100 110 120 130

ambient temperature T [°C]

Accessories

LED Light guides



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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

	J			
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 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 3.8/1	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 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 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 1.5/24	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).			

Accessories

SL 5.00/02/90B 3.2SN OR BX



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Packaging Туре SL FLA 1.5/1 Version Product data Order No. 1580100000 PCB plug-in connector, Accessories, Flood-light display, Transparent, Box GTIN (EAN) 4008190152475 Number of poles: 1 Qty. 100 pc(s). Туре SL FLA 3.8/24 Version Product data 1595860000 Order No. PCB plug-in connector, Accessories, Flood-light display, Transparent, GTIN (EAN) 4008190140892 Number of poles: 1 10 pc(s). Qty.

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	00

Accessories

Additional accessories





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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	oracing data			
Туре	SL RH4L OR	Version	Product data	Packaging
Order No.	<u>1338760000</u>	PCB plug-in connector, Accessories, Latches, orange, N	Number of poles:	Box
GTIN (EAN)	4008190170073	1		
Qty.	100 pc(s).			
Туре	SL RH4R OR	Version	Product data	Packaging
Order No.	<u>1338860000</u>	PCB plug-in connector, Accessories, Latches, orange, N	Number of poles:	Box
GTIN (EAN)	4008190126681	1		
Qty.	100 pc(s).			
Туре	SL AT OR	Version	Product data	Packaging
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, N	lumber of poles:	Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			
Туре	SL AT SW	Version	Product data	Packaging
		DCB plug in connector Accessories, Chapper block Nu	mbor of poloc: 1	Box
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, Nu	The of poles. T	DOX
Order No. GTIN (EAN)	<u>1770240000</u> 4032248117710	PCB plug-in connector, Accessories, Spacer, black, Nu	The of poles. T	DOX

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 BB12R SW	Version	Product data	Packaging
Order No.	<u>1626880000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190198213	poles: 1		
Qty.	100 pc(s).			
Туре	SLA BB6R SW	Version	Product data	Packaging
Order No.	<u>1723520000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190366070	poles: 1		
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	er	Box
GTIN (EAN)	4008190365998	of poles: 1		
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, Numbe	r	Box
GTIN (EAN)	4008190366018	of poles: 1		
Qty.	20 pc(s).			
Туре	SLA BB6R OR	Version	Product data	Packaging
Order No.	<u>1723470000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	er	Box
GTIN (EAN)	4008190366025	of poles: 1		
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, Number	of	Box
GTIN (EAN)	4008190366049	poles: 1		
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, Number	of	Box
GTIN (EAN)	4008190366063	poles: 1		
Qty.	20 pc(s).			



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Accessories

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).			
Туре	SLA BB1R SW	Version	Product data	Packaging
Order No.	<u>1723480000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number of	of	Box
GTIN (EAN)	4008190366032	poles: 1		
Qty.	20 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: 1		
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: 1		
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: 1		
Qty.	20 pc(s).			

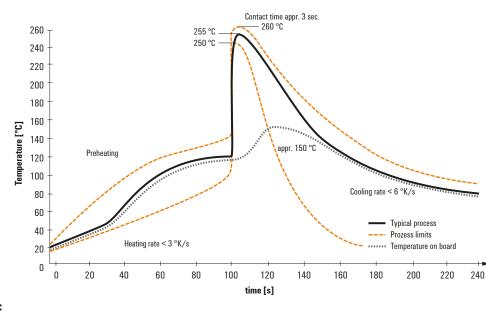
Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

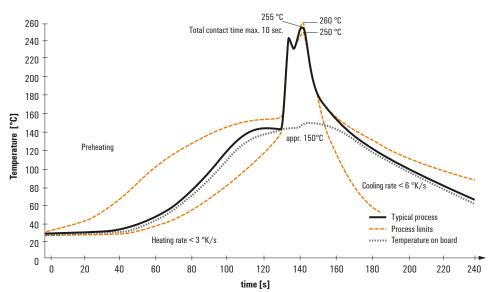
Weidmüller Interface GmbH & Co. KG

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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.

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 860505
 860516
 860810
 GBPACX-12
 93.731.4953.0
 PV05

 5,08-K
 PVP02-5,00
 PVP03-3,50
 PVP04-3,50
 PVS02-5,00
 1-1986160-3
 1377680000
 1531000000
 1546228-5
 ELFH16150
 ELFP03110

 ELFP10210
 ELFT06250
 ELVP03100
 1700101
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 1700425
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 1734692
 1734795
 1736036
 1740194
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 1740628
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 1746952
 1750207
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