

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

Do not use product for new developments

















Similar to illustration

Male connectors with straight 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, 5.08 mm, Number of poles: 6, 180°, Solder pin length (I): 4.5 mm, tinned, black, Box
Order No.	<u>1524510000</u>
Туре	SL 5.08/06/180B 4.5SN BK BX
GTIN (EAN)	4008190142032
Qty.	54 pc(s).
Product data	IEC: 400 V / 18 A UL: 300 V / 15 A
Packaging	Box

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Available until 2023-07-30



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Technical data

Dimensions and weights

Depth	8.4 mm	Depth (inches)	0.331 inch
Height	16.5 mm	Height (inches)	0.65 inch
Height of lowest version	12 mm	Width	32.48 mm
Width (inches)	1.279 inch	Net weight	2.241 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 "	Outgoing elbow	180°
Number of poles	6	Number of solder pins per pole	1
Solder pin length (I)	4.5 mm	Solder pin length tolerance	+0.1 / -0.3 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 (I	0)+ 0,1 mm
L1 in mm	25.4 mm	L1 in inches	1 "
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 unplugged
Protection degree	IP20	Volume resistance	4.50 mΩ
Can be coded	Yes		

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 base material	CuSn	Contact material	Cu-alloy
Contact surface		Layer structure of solder connection	13 μm Ni / 24 μm Sn
	tinned		matt
Layer structure of plug contact	13 µm Ni / 24 µm Sn	Storage temperature, min.	
	matt		-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



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27-44-04-02

27-46-02-01

27-46-02-01

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Technical data

Rated data acc. to CSA

nstitute (CSA)	(SP -	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 maximum values, details - see approval certificate.		

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Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Rated data acc. to UL 1059			
Institute (UR)		Certificate No. (UR)	
	742		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.		
Packing			
Packaging	Box	VPE length	342 mm
VPE width	136 mm	VPE height	22 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637

ECLASS 9.1

ECLASS 11.0

ECLASS 13.0

ECLASS 9.0

ECLASS 10.0

ECLASS 12.0

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Important note

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards 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
	 Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36

Approvals

Α	a	pr	o'	va	ls



months

ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Downloads

Duadret Change Natification	DE Change of postoning
Product Change Notification	DE - Change of packaging EN - Change of packaging
Catalogues	Catalogues in PDF-format
Brochures	<u>FL DRIVES EN</u>
	<u>FL DRIVES DE</u>



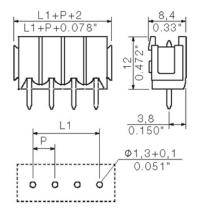
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Drawings

Dimensional drawing





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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

General ordering data

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).			
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).			

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 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		
Otv	50 pc(s).			

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Accessories

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).			

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 OR	Version	Product data	Packaging
Order No.	<u>1593450000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number		Box
GTIN (EAN)	4008190122164	of poles: 1		
Qty.	100 pc(s).			
Туре	SLA BB12R SW	Version	Product data	Packaging
Order No.	<u>1626880000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number of	of	Вох
GTIN (EAN)	4008190198213	poles: 1		
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, Number	•	Box
GTIN (EAN)	4008190182977	of poles: 1		
Qty.	20 pc(s).			
Туре	SLA BB2R SW	Version	Product data	Packaging
Order No.	1723490000	PCB plug-in connector, Accessories, Mounting block, black, Number o	of	Box
Order No. GTIN (EAN)	1723490000 4008190366049	PCB plug-in connector, Accessories, Mounting block, black, Number o poles: 1	of	Вох
			of	Вох
GTIN (EAN)	4008190366049		of Product data	Box Packaging
GTIN (EAN) Oty.	4008190366049 20 pc(s).	poles: 1	Product data	
GTIN (EAN) Qty. Type	4008190366049 20 pc(s). SLA BB1R OR	poles: 1 Version	Product data	Packaging
GTIN (EAN) Oty. Type Order No.	4008190366049 20 pc(s). SLA BB1R OR 1723430000	poles: 1 Version PCB plug-in connector, Accessories, Mounting block, orange, Number	Product data	Packaging
GTIN (EAN) Qty. Type Order No. GTIN (EAN)	4008190366049 20 pc(s). SLA BB1R OR 1723430000 4008190365981	poles: 1 Version PCB plug-in connector, Accessories, Mounting block, orange, Number	Product data	Packaging
GTIN (EAN) Qty. Type Order No. GTIN (EAN) Qty.	4008190366049 20 pc(s). SLA BB1R OR 1723430000 4008190365981 20 pc(s).	poles: 1 Version PCB plug-in connector, Accessories, Mounting block, orange, Number of poles: 1	Product data Product data	Packaging Box
GTIN (EAN) Qty. Type Order No. GTIN (EAN) Qty. Type	4008190366049 20 pc(s). SLA BB1R OR 1723430000 4008190365981 20 pc(s). SLA BB5R OR	version PCB plug-in connector, Accessories, Mounting block, orange, Number of poles: 1 Version	Product data Product data	Packaging Box Packaging



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Accessories

Туре	SLA BB2R OR	Version	Product data	Packaging
Order No.	1723440000	PCB plug-in connector, Accessories, Mounting block, orange, Number	er	Box
GTIN (EAN)	4008190365998	of poles: 1		
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	Box
GTIN (EAN)	4008190864965	poles: 1		
Qty.	20 pc(s).			
Туре	SLA BB1R SW	Version	Product data	Packaging
Order No.	1723480000	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190366032	poles: 1		
Qty.	20 pc(s).			
Туре	SLA BB6R OR	Version	Product data	Packaging
Order No.	1723470000	PCB plug-in connector, Accessories, Mounting block, orange, Number	er	Вох
GTIN (EAN)	4008190366025	of 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).			
Туре	SLA BB6R SW	Version	Product data	Packaging
Order No.	1723520000	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Вох
GTIN (EAN)	4008190366070	poles: 1		
Qty.	20 pc(s).			



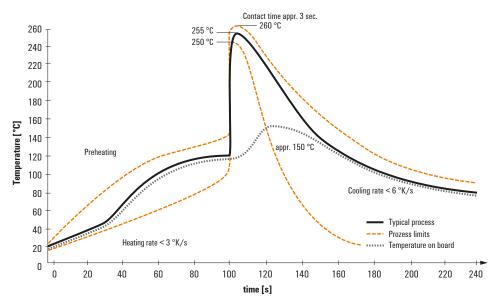
Recommended wave solderding profiles

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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.