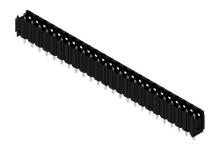




Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















1

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, 5.00 mm, Number of poles: 24, 180°, Solder pin length (I): 4.5 mm, tinned, black, Box
Order No.	<u>1626810000</u>
Туре	SL 5.00/24/180B 4.5SN BK BX
GTIN (EAN)	4008190198114
Qty.	20 items
Product data	IEC: 400 V / 18 A UL: 300 V / 15 A
Packaging	Вох





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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Depth	8.4 mm	Depth (inches)	0.3307 inch
Height	16.5 mm	Height (inches)	0.6496 inch
Height of lowest version	12 mm	Width	122 mm
Width (inches)	4.8031 inch	Net weight	9.15 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,080 kg CO2 eq.

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.00	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5.00 mm
Pitch in inches (P)	0.197 "	Outgoing elbow	180°
Number of poles	24	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 ([O)+ 0,1 mm
L1 in mm	115.00 mm	L1 in inches	4.528 "
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	≤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	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
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		

Creation date 03.11.2025 08:29:14 MEZ



SL 5.00/24/180B 4.5SN BK BX



Weidmüller Interface GmbH & Co. KG

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Technical data

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

Rated data acc. to CSA

Institute (CSA)	CSA	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.		

Rated data acc. to UL 1059

Institute (UR)	UR	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 -		

Packing

Packaging	Box	VPE length	148.00 mm
VPE width	65.00 mm	VPE height	61.00 mm

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 months

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637

Creation date 03.11.2025 08:29:14 MEZ







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Technical data

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		





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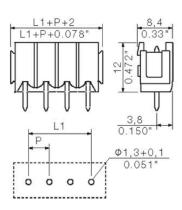
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Drawings

Product image



Dimensional drawing



SL 5.00/24/180B 4.5SN BK BX



Weidmüller Interface GmbH & Co. KG

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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.

General ordering data

Order No. 1262880000 PCB plug-in connector, Accessories, Mounting block, black, Number GTIN (EAN) 4008 190189213 of poles: O Type SLA BB11R SW Version Order No. 169234000 PCB plug-in connector, Accessories, Mounting block, black, Number GTIN (EAN) 4008190864965 of poles: O Oty. 20 ST Version Order No. 1232430000 PCB plug-in connector, Accessories, Mounting block, orange, Number GTIN (EAN) 4008190365981 of poles: O GY. 20 ST Type SLA BB2R OR Version Order No. 1723440000 PCB plug-in connector, Accessories, Mounting block, orange, Number GTIN (EAN) 4008190366998 of poles: O Type SLA BBBR OR Version Order No. 1723440000 PCB plug-in connector, Accessories, Mounting block, orange, Number GTIN (EAN) 4008190366018 of poles: O Type SLA BBBR OR Version Order No. 1723490000 PCB plug-in connector, Accessories, Mounting block, orange, Number GTIN (EAN	Туре	SLA BB12R SW	Version
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Type	GTIN (EAN)	4008190198213	of poles: 0
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Type SLA BB5R SW Version Order No. 1723510000 PCB plug-in connector, Accessories, Mounting block, black, Number of poles: 0	GTIN (EAN)	4008190366049	of poles: 0
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GTIN (EAN) 4008190366063 of poles: 0	Туре	SLA BB5R SW	Version
	Order No.	<u>1723510000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
Oty. 20 ST	GTIN (EAN)	4008190366063	of poles: 0
	Qty.	20 ST	

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SL 5.00/24/180B 4.5SN BK BX



Weidmüller Interface GmbH & Co. KG

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Accessories

Type SLA BB6R SW Version
Order No. 1723520000 PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN) 4008190366070 of poles: 0
Oty. 20 ST

Additional accessories



No task is too small when creating the perfect solution. 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
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1
GTIN (EAN)	4032248117710	
Qty.	100 ST	

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.

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General ordering data

Туре	BLZ/SL KO BK BX	Version
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	





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Accessories

 Type
 BLZ/SL KO OR BX
 Version

 Order No.
 1573010000
 PCB plug-in connector, Accessories, Coding element, orange, Number

 GTIN (EAN)
 4008190048396
 of poles: 1

 Qty.
 100 ST

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
Order No.	<u>1593450000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190122164	of poles: 0
Qty.	100 ST	

Additional accessories



No task is too small when creating the perfect solution. 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





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Accessories

General ordering data

Туре	SL AT OR	Version
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:
GTIN (EAN)	4008190189266	1
Qty.	100 ST	

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
Order No.	<u>1604120000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190182977	of poles: 0
Qty.	20 ST	

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