



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

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: 3, 180°, Solder pin length (I): 3.2 mm, tinned, black, Box	
Order No.	1074250000	
Туре	SL 5.00/03/180B 3.2SN BK BX	
GTIN (EAN)	4032248832804	
Qty.	100 items	
Product data	IEC: 400 V / 18 A	
	UL: 300 V / 15 A	
Packaging	Вох	





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Technical data

Ap	proval	s
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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	15.2 mm	Height (inches)	0.5984 inch
Height of lowest version	12 mm	Width	17 mm
Width (inches)	0.6693 inch	Net weight	1.21 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,011 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	3	Number of solder pins per pole	1
Solder pin length (I)	3.2 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		O)+ 0,1 mm
L1 in mm	10.00 mm	L1 in inches	0.394 "
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	IIIa
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		

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

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Rated current, max. number of poles 12 A (Tu=40°C)	Rated voltage for surge voltage class / 400 V pollution degree II/2
Rated voltage for surge voltage class / 320 V pollution degree III/2	Rated voltage for surge voltage class / 250 V pollution degree III/3
Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 4 kV class/ contamination degree III/3	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 - see approval certificate.		

Packing

Packaging	Box	VPE length	166.00 mm
VPE width	72.00 mm	VPE height	43.00 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
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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Drawings	www.weidmueller.com
Product image	Dimensional drawing



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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

	<u> </u>	
Туре	SLA BB12R SW	Version
Order No.	<u>1626880000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190198213	of poles: 0
Qty.	100 ST	
Туре	SLA BB11R SW	Version
Order No.	<u>1692340000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190864965	of poles: 0
Qty.	20 ST	
Туре	SLA BB1R OR	Version
Order No.	<u>1723430000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190365981	of poles: 0
Qty.	20 ST	
Туре	SLA BB2R OR	Version
Order No.	<u>1723440000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190365998	of poles: 0
Qty.	20 ST	
Туре	SLA BB5R OR	Version
Order No.	<u>1723460000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190366018	of poles: 0
Qty.	20 ST	
Туре	SLA BB6R OR	Version
Order No.	<u>1723470000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190366025	of poles: 0
Qty.	20 ST	
Туре	SLA BB1R SW	Version
Order No.	<u>1723480000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366032	of poles: 0
Qty.	20 ST	
Туре	SLA BB2R SW	Version
Order No.	<u>1723490000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366049	of poles: 0
Qty.	20 ST	
Туре	SLA BB5R SW	Version
Order No.	<u>1723510000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366063	of poles: 0
Qty.	20 ST	

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Accessories

Туре	SLA BB6R SW	Version
Order No.	<u>1723520000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number
GTIN (EAN)	4008190366070	of poles: 0
Qty.	20 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.

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	
Туре	BLZ/SL KO OR BX	Version
Type Order No.	BLZ/SL KO OR BX 1573010000	Version PCB plug-in connector, Accessories, Coding element, orange, Number
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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

Gonorai	oraornig aata	
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	

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Accessories

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	