

OMNIMATE Signal - series BL/SL 5.00
SL-SMT 5.00HC/02/90LF 1.5SN BK BX

Weidmüller Interface GmbH & Co. KG
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High-temperature-resistant pin header, packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	SL-SMT 5.00HC/02/90LF 1.5SN BK BX
Order No.	1797230000
Version	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.00 mm, No. of poles: 2, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box
GTIN (EAN)	4032248238019
Qty.	100 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

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Technical data
Dimensions and weights

Net weight 2.05 g

System parameters

Product family		Mounting onto the PCB	
Product family	OMNIMATE Signal - series BL/SL 5.00	Reflow solder connection	
Outgoing elbow	90°	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	No. of poles	2
Solder pin length (l)	1.5 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
Plugging cycles	25	Tolerance of solder pin position	+0.3 / 0 mm
Can be coded	Yes	Number of solder pins per pole	1
Solder eyelet hole diameter (D)	1.5 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
L1 in mm	5 mm	L1 in inches	0.197 inch
Insulation resistance	≥ 10 ⁸ Ω		


Material data

Insulating material	LCP GF	Moisture Level (MSL)	1
Colour	Black	Insulating material group	IIIa
UL 94 flammability rating	V-0	CTI	≥ 175
Contact material	CuSn	Layer structure of solder connection	2-3 µm Ni / 2-4 µm Sn matt
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %

Rating data acc. to IEC 60664-1 / IEC 61984

Rated current, min. no. of poles (Ta = 20°C)	27.5 A	Rated current, max. no. of poles (Ta = 20°C)	19 A
Rated current, min. no. of poles (Ta = 40°C)	24 A	Rated current, max. no. of poles (Ta = 40°C)	16.5 A
Rated voltage for surge voltage class / pollution degree III/3	250 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated voltage for surge voltage class / pollution degree II/2	400 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1176845
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	15 A	Rated current (use group D)	15 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		


Data sheet

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Technical data

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	18.5 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02

Notes

Notes	<ul style="list-style-type: none"> • 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.
IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

Approvals

Approvals	
ROHS	Conform

Downloads

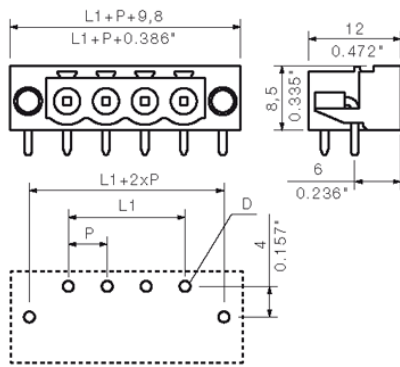
EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer)	Select your download
3-D model	

Data sheet

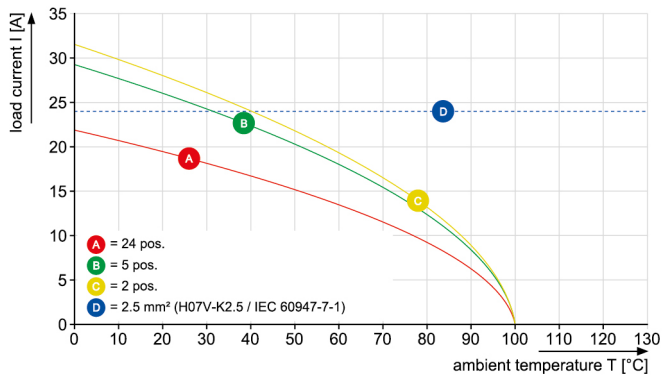
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Drawings



BLT 5.00HC/././180 - SL-SMT 5.00HC/././90



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Mating connector (fully pluggable)
BLF 5.00HC/90LH SN


Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.00HC offers just as much as the older versions:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/02/90LH SN BK BX	1979980000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248675043	90 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
2014-05-20	2014-05-20	BLF 5.00HC/02/90LH SN OR BX	1981370000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248676675	90 pc(s). IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12

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Mating connector (fully pluggable)
BLF 5.00HC/180F SN


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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/02/180F SN BK BX	1017240000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248728275	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.00HC/02/180F SN OR BX	1017420000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248728107	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

BLF 5.00HC/90LR SN


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In terms of versatility, the BLF 5.00HC offers just as much as the older versions:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/02/90LR SN OR BX	1980870000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated	4032248675982	90 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

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Mating connector (fully pluggable)

		connection, max.: 3.31 mm ² , Box		
BLF 5.00HC/02/90LR SN BK BX	1979790000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	403224867405390 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12

BLZ 5.00/180F


Female plugs with clamping-yoke screw for wire connection with straight (180°) outlet direction. The female plugs provide space for labelling and can be coded.

General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2015-09-12	BLZ 5.00/180F SN BK BX	1843520000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	403224835524290 pc(s).		IEC: 400 V / 19 A / 0.5 - 2.5 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12
2015-12-31	BLZ 5.00/180F SN OR BX	1843290000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box	403224835501390 pc(s).		IEC: 400 V / 19 A / 0.5 - 2.5 mm ² UL: 300

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Mating connector (fully pluggable)

V /
15
A /
AWG
26
-
AWG
12

BLF 5.00HC/90F SN


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In terms of versatility, the BLF 5.00HC offers just as much as the older versions:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/02/90F SN BK BX	1979460000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248674664	90 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.00HC/02/90F SN OR BX	1980640000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248675692	90 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

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Mating connector (fully pluggable)
BLF 5.00HC/180LR SN


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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/02/180LR SN BK BX	1016140000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248725953	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.00HC/02/180LR SN OR BX	1016340000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248725786	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

BLZP 5.00HC/180F SN


Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.00HC/02/180F SN BK BX	1956030000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm ² , Box	4032248634606	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 30 - AWG 12	Box

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Mating connector (fully pluggable)

BLZP [1955800000](#)
5.00HC/02/180F
SN OR BX

PCB plug-in connector, 4032248634347 90 pc(s).
female plug, 5.00 mm, No.
of poles: 2, 180°, Clamping
yoke connection, Clamping
range, rated connection,
max.: 4 mm², Box

IEC: 400 V / 23 A / 0.2 - 4 mm² Box
UL: 300 V / 20 A / AWG 30 - AWG 12

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Mating connector (conditionally pluggable)
BLF 5.00HC/180 SN


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The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.00HC offers just as much as the older versions:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.00HC/02/180 SN BK BX	1017670000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248728848	180 pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.00HC/02/180 SN OR BX	1017860000	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 180°, PUSH IN, Clamping range, rated connection, max.: 3.31 mm ² , Box	4032248728671	180 pc(s).	IEC: 400 V / 23 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

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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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
SL FLA 2,3/1	1636670000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190409975	100 pc(s).	
2010-06-01T0610FLA03-02200	1595870000		PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190079796	10 pc(s).
SL FLA 3,8/1	1580110000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190050740	100 pc(s).	
SL FLA 1,5/1	1580100000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190152475	100 pc(s).	
2010-06-01T0610FLA03-02200	1595860000		PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190140892	10 pc(s).
2010-06-01T0610FLA03-02200	1595850000		PCB plug-in connector, Accessories,	4008190092573	10 pc(s).

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Accessories

		Flood-light display, Transparent, No. of poles: 1
SL FLA 9.0/1 1580120000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190031909 100 pc(s).
SL FLA 2,3/24 1636680000	PCB plug-in connector, Accessories, Flood-light display, Transparent, No. of poles: 1	4008190409968 10 pc(s).

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 clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
SL AT OR	1598300000	PCB plug-in connector, Accessories, Partition element, Orange, No. of poles: 1	4008190189266	100 pc(s).	
SL AT SW	1770240000	PCB plug-in connector, Accessories, Partition element, Black, No. of poles: 1	4032248117710	100 pc(s).	

Data sheet

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Accessories

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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
BLZ/SL KO BK BX	1545710000	PCB plug-in connector, Accessories, Coding element, Black, No. of poles: 1	4008190087142	50 pc(s).	
BLZ/SL KO OR BX	1573010000	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190048396	100 pc(s).	

Recommended reflow soldering profile

Weidmüller Interface GmbH & Co. KG
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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3\text{K/s}$. In parallel the solder paste is ‚activated‘. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at $\geq -6\text{K/s}$ solder is cured. Board and components cool down while avoiding cold cracks.

Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
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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.

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