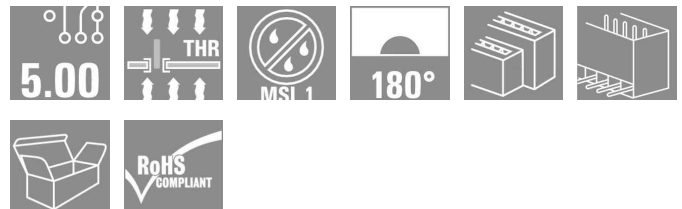


**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



High-temperature resistant, double level, laterally offset, closed ended male header, with solder flange option. 1.5 mm solder pin suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Type	SLDV-THR 5.00/08/180G 3.2SN BK BX
Order No.	<a href="#">1862370000</a>
Version	PCB plug-in connector, male header, closed side, Reflow solder connection, 5.00 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248426928
Qty.	50 pc(s).
Product data	IEC: 400 V / 15 A UL: 300 V / 10 A
Packaging	Box

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Technical data**
**Dimensions and weights**

Net weight 7.52 g

**System parameters**

Product family		Mounting onto the PCB	
Product family	OMNIMATE Signal - series BL/SL 5.00	Reflow solder connection	
Outgoing elbow	180°	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	No. of poles	8
Solder pin length (l)	3.2 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
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	15 mm
L1 in inches	0.591 inch	Insulation resistance	≥ 10 <sup>8</sup> Ω
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged	Touch-safe protection acc. to DIN VDE 57 106	Finger-safe plugged/ back-of-hand-safe unplugged
Volume resistance	4.50 mΩ		

**Material data**

Insulating material	LCP GF	Colour	Black
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 175	Contact material	CuSn
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C	Max. relative humidity during storage	80 %

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

Rated current, min. no. of poles (Tu=20°C)	15 A	Rated current, max. no. of poles (Tu=20°C)	10.5 A
Rated current, number of poles (Tu=40°C), min	13 A	Rated current, number of poles (Tu=40°C), max.	9 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
Short-time withstand current resistance	1 x 1s with 120 A		

**CSA rating data**

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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Germany  
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www.weidmueller.com

**Technical data**

**UL 1059 rating data**

Institute (UR)



Institute (cURus)



Certificate No. (UR)	E60693
Rated voltage (use group B)	300 V
Rated voltage (use group D)	300 V

Certificate No. (cURus)	E60693
Rated current (use group B)	10 A
Rated current (use group D)	10 A

**Classifications**

ETIM 3.0	EC001284
ETIM 5.0	EC002637
UNSPSC	30-21-18-10
eClass 6.2	27-26-07-04

ETIM 4.0	EC002637
ETIM 6.0	EC002637
eClass 5.1	27-26-07-04
eClass 7.1	27-44-04-02

**Notes**

Notes

- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- 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

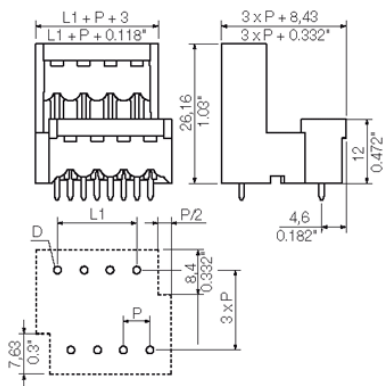
Conform

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Drawings**



**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZ 5.00/270B**


Female plugs with clamping-yoke screw for wire connection with 270° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.20 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.00/04/270B SN OR BX	<a href="#">1638060000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190275327	78 pc(s).	IEC: 400 V / 15 A / 0.5 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZ 5.00/04/270B SN BK BX	<a href="#">1638290000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190275556	78 pc(s).	IEC: 400 V / 15 A / 0.5 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**BLF 5.00HC/90F 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/04/90F SN BK BX	<a href="#">1979480000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248674688	60 pc(s).	IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
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 Fax: +49 5231 14-292083  
 www.weidmueller.com

### Mating connector (conditionally pluggable)

BLF 5.00HC/04/90F SN OR BX	<a href="#">1980660000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248675814 60 pc(s).	IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
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### BLZP 5.00HC/180LR 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. The 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/04/180LR SN BK BX	<a href="#">1956580000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248635405 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.00HC/04/180LR SN OR BX	<a href="#">1956350000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248635054 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - 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. The 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/04/180F SN BK BX	<a href="#">1956010000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping	4032248634583 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

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### Mating connector (conditionally pluggable)

		range, rated connection, max.: 4 mm <sup>2</sup> , Box			
BLZP 5.00HC/04/180F SN OR BX	<a href="#">1955780000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248634323 60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

### BLZP 5.00HC/90F SN



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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/04/90F SN BK BX	<a href="#">1959730000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248638666 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.00HC/04/90F SN OR BX	<a href="#">1959500000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248638437 60 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

### BLZP 5.00HC/180LH 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. The 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

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BLZP 5.00HC/04/180LH SN OR BX	<a href="#">1956970000</a>	PCB plug-in connector, female	4032248635856 60 pc(s).		IEC: 400

Creation date February 17, 2015 10:05:22 PM CET

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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D-32758 Detmold  
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Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Mating connector (conditionally pluggable)**

		plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	
2014-05-20	2014-05-20	BLZP 5.00HC/04/180LH SN BK BX <a href="#">1957270000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248636082 60 pc(s). IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12

**BLZP 5.00HC/270LR SN**



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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	<a href="#">1961170000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping	4032248640256	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

Creation date February 17, 2015 10:05:22 PM CET

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

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### Mating connector (conditionally pluggable)

yoke connection, Clamping  
 range, rated connection,  
 max.: 4 mm<sup>2</sup>, Box

This article will no longer be available in the future.

2014-05-20T00:00:00+02:00	BLZP 5.00HC/04/270LR SN OR BX	<a href="#">1960940000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248639977	60 pc(s).
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### BLZ 5.00/90B



Female plugs with clamping-yoke screw for wire connection with 90° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.20 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

### General ordering data

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2011-09-30T00:00:00+02:00	BLZP 5.00HC/04/270LR SN OR BX	<a href="#">1637140000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	400819027438278	78 pc(s).	IEC: 400 V / 15 A / 0.5 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12
2009-12-31T00:00:00+01:00	BLZP 5.00HC/04/270LR SN BK BX	<a href="#">1637370000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range,	400819027461078	78 pc(s).	IEC: 400 V / 15 A / 0.5 -

**OMNIMATE Signal - series BL/SL 5.00  
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**Mating connector (conditionally pluggable)**

rated connection,	2.5
max.: 3.31 mm <sup>2</sup> ,	mm <sup>2</sup>
Box	UL:
	300
	V /
	10
	A /
	AWG
	26
	-
	AWG
	12

**BLZP 5.00HC/270LH SN**



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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**

Available until	Type	Order No.	Version	GTIN (EAN)	Qty.	Product data
2014-05-20	BLZP 5.00HC/270LH SN OR BX	<a href="#">1961420000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	403224864069060	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 -
2014-05-20	BLZP 5.00HC/270LH SN BK BX	<a href="#">1961650000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range,	403224864092860	60 pc(s).	IEC: 400 V / 23 A / 0.2 -

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

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### Mating connector (conditionally pluggable)

rated connection,  
 max.: 4 mm<sup>2</sup>, Box

4  
 mm<sup>2</sup>  
 UL:  
 300  
 V /  
 20  
 A /  
 AWG  
 30  
 -  
 AWG  
 12

### BLZP 5.00HC/270F SN



Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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/04/270F SN OR BX	<a href="#">1960440000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248639304	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
BLZP 5.00HC/04/270F SN BK BX	<a href="#">1960710000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248639502	60 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

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### Mating connector (conditionally pluggable)

#### BLF 5.00HC/90LR 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/04/90LR SN OR BX	<a href="#">1980890000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248676002	60 pc(s).	IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
BLF 5.00HC/04/90LR SN BK BX	<a href="#">1979810000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248674077	60 pc(s).	IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box

#### 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.

- 0.20 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

#### General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	BLZ 5.00/04/180F SN OR BX	<a href="#">1843310000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection,	4032248355037	100 pc(s).

Creation date February 17, 2015 10:05:22 PM CET

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**

This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BLZ 5.00/04/180F SN BK BX	<a href="#">1843540000</a>	Clamping range,	4032248355266	100
				rated connection, max.: 3.31 mm <sup>2</sup> , Box		
				PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box		pc(s).

**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/04/90LH SN BK BX	<a href="#">1980000000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248675067	60 pc(s).	IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
BLF 5.00HC/04/90LH SN OR BX	<a href="#">1981390000</a>			4032248676699		IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.00**  
**SLDV-THR 5.00/08/180G 3.2SN BK BX**

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Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

**Mating connector (conditionally pluggable)**

A /  
AWG  
12  
-  
AWG  
26

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

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### Mating connector (fully pluggable)

#### BL 5.00



Female plugs with leaf-spring wire connection system.  
 The female plugs provide space for labelling.

- 0.2 - 1.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 11 A (IEC) / 10 A (UL)

#### General ordering data

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BL 5.00/04/180 SN OR BX	<a href="#">1723130000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box	4032248002535	100 pc(s)
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BL 5.00/04/180 SN GY BX	<a href="#">1762790000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box	4032248048700	100 pc(s)
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BL 5.00/04/180 SN BK BX	<a href="#">1730720000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box	4008190387310	100 pc(s)

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SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLZ 5.00/90**


Female plugs with clamping-yoke screw for wire connection with 90° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.20 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BLZ 5.00/04/90 SN OR BX	<a href="#">1635960000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190265830	90 pc(s).
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BLZ 5.00/04/90 SN BK BX	<a href="#">1636910000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190274153	90 pc(s).

**BLZP 5.00HC/90 SN**


Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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/04/90 SN BK BX	<a href="#">1958630000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping	4032248637362	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

## OMNIMATE Signal - series BL/SL 5.00 SLDV-THR 5.00/08/180G 3.2SN BK BX

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### Mating connector (fully pluggable)

		range, rated connection, max.: 4 mm <sup>2</sup> , Box			
BLZP	<a href="#">1958280000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248637140 90 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.00HC/04/90 SN OR BX					

### BLZP 5.00HC/180 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	<a href="#">1955550000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248634040 90 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box
5.00HC/04/180 SN BK BX						

### BLF 5.00HC/90 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	<a href="#">1980190000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection,	4032248675272 90 pc(s).		IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26	Box
5.00HC/04/90 SN OR BX						

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Mating connector (fully pluggable)**

		Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box		
BLF 5.00HC/04/90 SN BK BX	<a href="#">1979290000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, PUSH IN spring connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248674473 90 pc(s).	IEC: 400 V / 20 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 12 - AWG 26

**BLZ 5.00/180**



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.

- 0.20 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future. 2015-12-31T00:00:00+01:00	BLZ 5.00/04/180 SN BK BX	<a href="#">1596080000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190176716	100 pc(s).
This article will no longer be available in the future. 2015-12-31T00:00:00+01:00	BLZ 5.00/04/180 SN OR BX	<a href="#">1571370000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190050641	100 pc(s).

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLZ 5.00/270**


Female plugs with clamping-yoke screw for wire connection with 270° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.20 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BLZ 5.00/04/270 SN BK BX	<a href="#">1637830000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190275075	90 pc(s).
This article will no longer be available in the future.	2015-12-31T00:00:00+01:00	BLZ 5.00/04/270 SN OR BX	<a href="#">1637600000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190274849	90 pc(s).

**BLZP 5.00HC/270 SN**


Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) 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/04/270 SN BK BX	<a href="#">1959080000</a>	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 90°, Clamping yoke connection, Clamping	4032248638017	90 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 20 A / AWG 30 - AWG 12	Box

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.00  
SLDV-THR 5.00/08/180G 3.2SN BK BX**

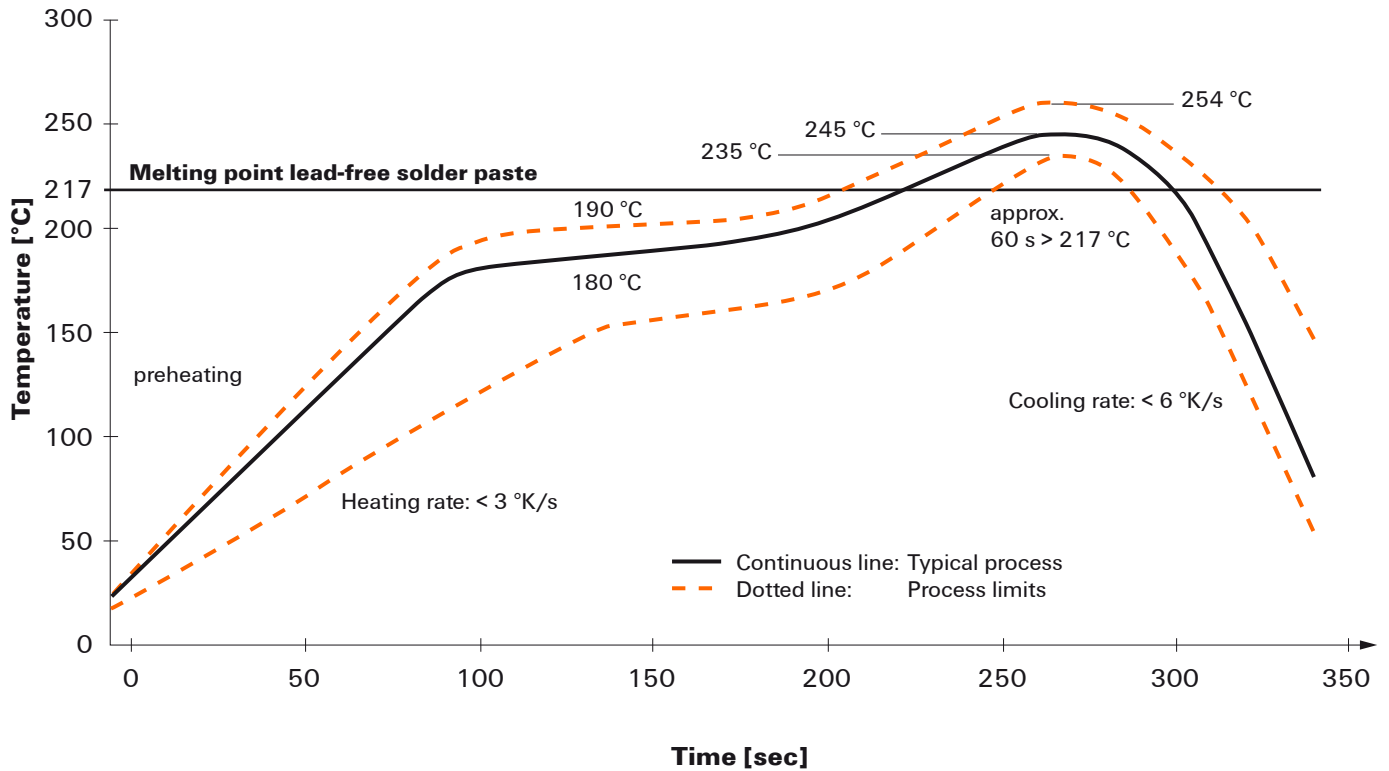
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**Mating connector (fully pluggable)**

		range, rated connection, max.: 4 mm <sup>2</sup> , Box		
BLZP	<a href="#">1958850000</a>	PCB plug-in connector,	4032248637683 90 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm <sup>2</sup> Box
5.00HC/04/270		female plug, 5.00 mm, No.		UL: 300 V / 20 A / AWG 30 - AWG 12
SN OR BX		of poles: 4, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box		

## Recommended reflow soldering profile

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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:

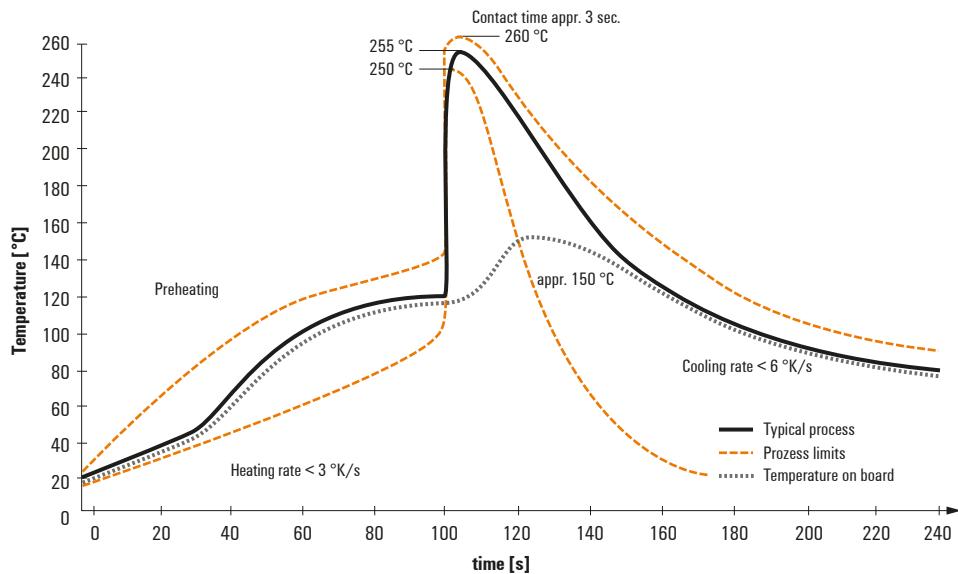
- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

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.

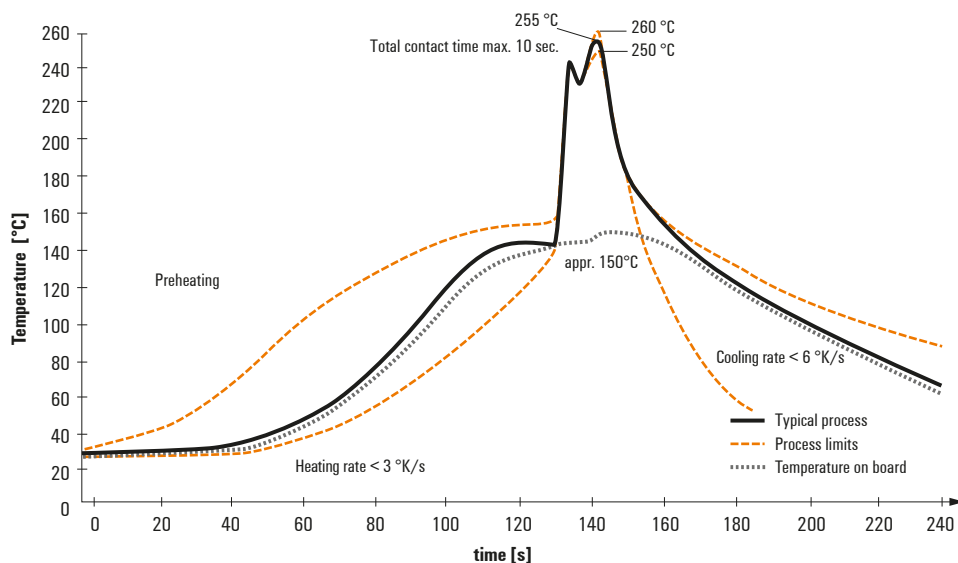
## Recommended wave soldering profiles

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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.

# Adressen weltweit

Let's connect.


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