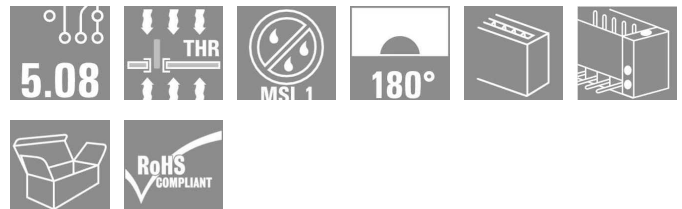


**OMNIMATE Signal - series BL/SL 5.08**  
**SL-SMT 5.08/10/180F 3.2SN BK BX**

**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 male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

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

**General ordering data**

Type	SL-SMT 5.08/10/180F 3.2SN BK BX
Order No.	<a href="#">1820780000</a>
Version	PCB plug-in connector, male header, Flange, Reflow solder connection, 5.08 mm, No. of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248317646
Qty.	50 pc(s).
Product data	IEC: 400 V / 19 A UL: 300 V / 15 A
Packaging	Box

Creation date December 8, 2013 2:28:27 AM CET

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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

Net weight 5.36 g

**System parameters**

Product family		Mounting onto the PCB	
	OMNIMATE Signal - series BL/SL 5.08		Reflow solder connection
Outgoing elbow	180°	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	No. of poles	10
Solder pin length (l)	3.2 mm	Pin dimensions	d = 1.2 mm, Octagonal
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	45.72 mm	L1 in inches	1.8 inch


**Material data**

Insulating material	LCP GF	Colour	Black
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 175	Contact material	CuSn
Coating	1-3 µm Ni, 5-7 µm SN	Contact surface	tinned
Max. relative humidity during storage	80 %		


**DIN IEC rating data**

Rated current, min. no. of poles (Tu=20°C)	19 A	Rated current, max. no. of poles (Tu=20°C)	15 A
Rated current, number of poles (Tu=40°C), min	16 A	Rated current, number of poles (Tu=40°C), max.	13 A
Rated voltage for surge voltage class pollution degree III/3	250 V	Rated impulse voltage for surge voltage classcontamination degree III/3	4 kV
Rated voltage for surge voltage class pollution degree III/2	320 V	Rated impulse voltage for surge voltage classpollution degree III/2	4 kV
Rated voltage for surge voltage class pollution degree II/2	400 V	Rated impulse voltage for surge voltage classpollution degree II/2	4 kV

**CSA rating data**

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	15 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

**UL 1059 rating data**

Institute (UR)		Rated voltage (use group B)	300 V
Rated current (use group B)	15 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Technical data**

**Classifications**

ETIM 3.0	EC001284	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		

**Notes**

- Notes
- Gold-plated contact surfaces on request
  - Rated current related to rated cross-section & min. No. of poles.
  - Diameter of solder eyelet D = 1.4+0.1mm
  - Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 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.

**Approvals**

Approvals

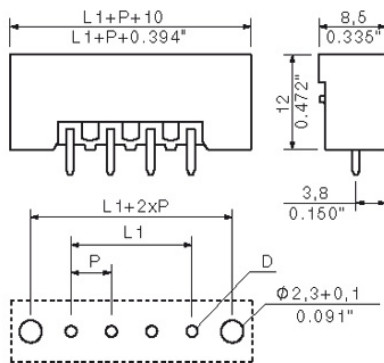


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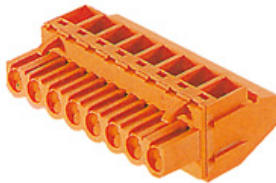
**Data sheet****OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Drawings**

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZ 5.08/90B**


Female plugs with clamping-yoke screw connection. The female plugs provide space for labelling and can be coded.

- 0.2 - 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 5.08/10/90B SN OR BX	<a href="#">1555860000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190158866	30 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**BLZ 5.08/180**


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.

- 0.2 - 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/180 SN OR BX	<a href="#">1527260000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190186265	50 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/180 SN BK BX	<a href="#">1527210000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190015602	50 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZP 5.08/180LR SN**


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. Can be fastened with flange or release latch. They also feature the integrated plus/minus screw, protection from under insertion of wire, and are delivered with open clamping yoke.

- 0.2 – 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08/10/180LR SN BK BX	<a href="#">1945140000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248620289	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08/10/180LR SN OR BX	<a href="#">1944910000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248619962	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**BLZP 5.08/270LR SN**


Female plugs with clamping-yoke screw connection for wire connection and a right-angle (90° or 270°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They feature an integrated plus/minus screw, protection against false insertion under clamping yoke. They are delivered with an opened clamping yoke.

- 0.2 – 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
BLZP 5.08HC/10/270LR SN OR BX	<a href="#">1947610000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248623907	30 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**

BLZP 5.08HC/10/270LR SN BK BX	<a href="#">1947840000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm², Box	4032248624331 30 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm² UL: 300 V / 15 A / AWG 30 - AWG 12	Box
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**BLZF 5.08/90B**


Female plugs with tension-clamp wire connection system. The female plugs provide space for labelling and can be coded.

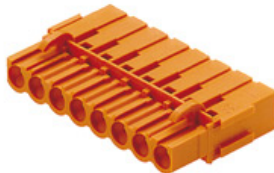
- 0.2 - 2.5 mm² (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/90B SN BK BX	<a href="#">1671560000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190433260	30 pc(s).	IEC: 400 V / 16.5 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZF 5.08/10/90B SN OR BX	<a href="#">1671330000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm², Box	4008190433031	30 pc(s).	IEC: 400 V / 16.5 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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Fax: +49 5231 14-292083  
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**Mating connector (conditionally pluggable)**
**BLC 5.08BR**


Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

- 0.25 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLC 5.08/10/180BR OR BX	<a href="#">1649450000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190294564	50 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box
BLC 5.08/10/180BR BK BX	<a href="#">1712190000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190935207	50 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box

**BLZ 5.08/270**


Female plugs with clamping-yoke screw connection. The female plugs provide space for labelling and can be coded.

- 0.2 - 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 5.08/10/270 SN BK BX	<a href="#">1558110000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190269500	36 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/270 SN OR BX	<a href="#">1558160000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated	4008190184247	36 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Mating connector (conditionally pluggable)**

connection, max.: 3.31  
 mm<sup>2</sup>, Box

**BLL 5.08/90FI**


Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/10/90FI 3.2SN OR BX	<a href="#">1843830000</a>	PCB plug-in connector, female header, Inverted flange, Solder connection, 5.08 mm, No. of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4032248355587	30 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**BLDT 5.08B**


Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 14 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDT 5.08/10/-B SN OR BX	<a href="#">1651820000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190400507	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLDT 5.08/10/-B SN BK BX	<a href="#">1673860000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190435592	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
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**Mating connector (conditionally pluggable)**
**BL 5.08**


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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 5.08/10/180 SN DKGX BX	<a href="#">1723910000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box	4008190376277	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 14	Box
BL 5.08/10/180 SN BK BX	<a href="#">1716550000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box	4008190376628	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 14	Box
BL 5.08/10/180 SN OR BX	<a href="#">1716400000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Pressure clamp connection, Clamping range, rated connection, max.: 2.08 mm <sup>2</sup> , Box	4008190376444	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 14	Box

**BLZP 5.08/225B SN**


Clamping-yoke wire connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They also feature the integrated plus/minus screw, protection from under insertion of wire, and are delivered with open clamping yoke.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08HC/10/225B SN BK BX	<a href="#">1946060000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°	4032248621590	30 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

Creation date December 8, 2013 2:28:27 AM CET

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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Fax: +49 5231 14-292083  
www.weidmueller.com

**Mating connector (conditionally pluggable)**

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

BLZP 5.08HC/10/225B SN OR BX	<a href="#">1945830000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248621309 30 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
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**BLZ 5.08/225B**


Female plugs with clamping-yoke screw for wire connection with 225° outlet direction. The female plugs provide space for labelling and can be coded.

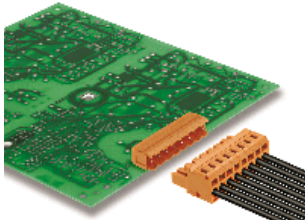
- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/225B SN BK BX	<a href="#">1742410000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248049820 30 pc(s).		IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/225B SN OR BX	<a href="#">1742180000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190247492 30 pc(s).		IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZF 5.08/180B**


Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/180B SN OR BX	<a href="#">1708380000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190316402	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

**BLDT 5.08**


Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 14 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDT 5.08/10/- SN OR BX	<a href="#">1644810000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190284022	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLDT 5.08/10/- SN BK BX	<a href="#">1660790000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190417246	50 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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

**Mating connector (conditionally pluggable)**
**BLL 5.08/90**


Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/10/90 3.2 SN OR BX	<a href="#">1623020000</a>	PCB plug-in connector, female header, closed side, Solder connection, 5.08 mm, No. of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190194079	36 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**BLL 5.08/180B**


Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/10/180B 3.2SN OR BX	<a href="#">1682810000</a>	PCB plug-in connector, female header, Dovetails for fixing blocks, Solder connection, 5.08 mm, No. of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190474577	30 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZP 5.08/225 SN**


Clamping-yoke wire connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They also feature the integrated plus/minus screw, protection from under insertion of wire, and are delivered with open clamping yoke.

- 0.2 – 2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08HC/10/225 SN BK BX	<a href="#">1946640000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248622412	36 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08HC/10/225 SN OR BX	<a href="#">1946330000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248621903	36 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**BLZF 5.08/180**


Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/180 SN BK BX	<a href="#">1707770000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190316778	36 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
BLZF 5.08/10/180 SN OR BX	<a href="#">1707540000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°,	4008190950200	36 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

Creation date December 8, 2013 2:28:27 AM CET

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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Germany  
Fon: +49 5231 14-0  
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www.weidmueller.com

**Mating connector (conditionally pluggable)**

Tension clamp connection,  
Clamping range, rated  
connection, max.: 3.31  
mm<sup>2</sup>, Box

**BLZ 5.08/225**


Female plugs with clamping-yoke screw for wire connection with 225° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/225 SN BK BX	<a href="#">1741950000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190272883	36 pc(s).	IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/225 SN OR BX	<a href="#">1741720000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 225°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190222246	36 pc(s).	IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**BLIDC 5.08**


Female plugs with IDC wire connection system. The female plugs provide space for labelling and can be coded.

- 0.35 - 0.75 mm<sup>2</sup> (IEC) / 22 - 20 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 11 A (IEC) / 5 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLIDC 5.08/10/180 SN OR BX	<a href="#">1725020000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, IDC terminal, Clamping range,	4008190377366	50 pc(s).	IEC: 400 V / 11 A / 0.5 - 0.75 mm <sup>2</sup> UL: 300 V / 5 A / AWG 22 - AWG 20	Box

## OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08/10/180F 3.2SN BK BX

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 www.weidmueller.com

### Mating connector (conditionally pluggable)

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

#### ZZ\_Varianten



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.

- 0.2 - 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/180B SN DKGN BX	<a href="#">1529550000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190290269	50 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

#### BLZ 5.08/180LR



Female plugs with clamping-yoke screw connection for wire, with straight wire outlet and release latch mechanism. The female plugs provide space for labelling and can be coded.

- 0.2 - 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/180LR SN BK BX	<a href="#">1893030000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248507177	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/180LR SN OR BX	<a href="#">1851280000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated	4032248382651	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**

connection, max.: 3.31  
mm<sup>2</sup>, Box

**BLZF 5.08/270**


Female plugs with tension-clamp wire connection system. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/270 SN BK BX	<a href="#">1672250000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190433963	36 pc(s).	IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZF 5.08/10/270 SN OR BX	<a href="#">1672020000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190433734	36 pc(s).	IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**BLT 5.08**


Female plugs with TOP screw system for connecting wires with straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT 5.08HC/10/180 SN BK BX	<a href="#">1500310000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190861766	36 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box

## OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08/10/180F 3.2SN BK BX

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### Mating connector (conditionally pluggable)

BLT 5.08HC/10/180 SN OR BX	<a href="#">1500360000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190103422 36 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box
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### BLZF 5.08/90



Female plugs with tension-clamp wire connection system. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 10 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/90 SN BK BX	<a href="#">1671100000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190432775 36 pc(s).		IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZF 5.08/10/90 SN OR BX	<a href="#">1670870000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190432461 36 pc(s).		IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

### BLZF 5.08/180LR



Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/180LR SN OR BX	<a href="#">1851490000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°	4032248382965 30 pc(s).		IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

Creation date December 8, 2013 2:28:27 AM CET

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Mating connector (conditionally pluggable)**

		Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box		
BLZF 5.08/10/180LR SN BK BX	<a href="#">1892800000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248506941 30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12

**BLZ 5.08/180B**


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.

- 0.2 - 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/180B SN BK BX	<a href="#">1529510000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190113643	50 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/180B SN OR BX	<a href="#">1529560000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190158224	50 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZ 5.08/90**


Female plugs with clamping-yoke screw connection. The female plugs provide space for labelling and can be coded.

- 0.2 - 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 5.08/10/90 SN BK BX	<a href="#">1553510000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190267797	36 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/90 SN OR BX	<a href="#">1553560000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190016852	36 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**BLT 5.08LR**


Female plugs with TOP screw connection for wire, with straight wire outlet and release latch mechanism. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT 5.08HC/10/180LR SN BK BX	<a href="#">1894210000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4032248508556	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box
BLT 5.08HC/10/180LR SN OR BX	<a href="#">1890300000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping	4032248498789	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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 www.weidmueller.com

**Mating connector (conditionally pluggable)**

range, rated connection,  
 max.: 2.5 mm<sup>2</sup>, Box

**BLZ 5.08/270B**


Female plugs with clamping-yoke screw connection. The female plugs provide space for labelling and can be coded.

- 0.2 - 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 5.08/10/270B SN OR BX	<a href="#">1560460000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190156947	30 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/270B SN BK BX	<a href="#">1560410000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190269753	30 pc(s).	IEC: 400 V / 15 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box

**BLZP 5.08/270 SN**


Female plugs with clamping-yoke screw connection for wire connection and a right-angle (90° or 270°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They feature an integrated plus/minus screw, protection against false insertion under clamping yoke. They are delivered with an opened clamping yoke.

- 0.2 - 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
BLZP 5.08HC/10/270 SN OR BX	<a href="#">1948870000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated	4032248626328	36 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**

		connection, max.: 4 mm <sup>2</sup> , Box		
BLZP	<a href="#">1949100000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248626557 36 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> Box UL: 300 V / 15 A / AWG 30 - AWG 12
5.08HC/10/270				
SN BK BX				

**BLZF 5.08/270B**


Female plugs with tension-clamp wire connection system. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16.5 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF	<a href="#">1672710000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190434427 30 pc(s).		IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
5.08/10/270B						
SN BK BX						
BLZF	<a href="#">1672480000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190434199 30 pc(s).		IEC: 400 V / 16.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 12	Box
5.08/10/270B						
SN OR BX						

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 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

**Mating connector (conditionally pluggable)**
**BLZP 5.08/180 SN**


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. Can be fastened with flange or release latch. They also feature the integrated plus/minus screw, protection from under insertion of wire, and are delivered with open clamping yoke.

- 0.2 – 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08/10/180 SN BK BX	<a href="#">1943890000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248618002	45 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08/10/180 SN OR BX	<a href="#">1943660000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248617678	45 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**BLL 5.08/180**


Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/10/180 3.2 SN OR BX	<a href="#">1630790000</a>	PCB plug-in connector, female header, closed side, Solder connection, 5.08 mm, No. of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190204228	36 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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www.weidmuller.com

**Mating connector (conditionally pluggable)**
**BLC 5.08R**


Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

- 0.25 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLC 5.08/10/180R BK BX	<a href="#">1712040000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190935054	50 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box
BLC 5.08/10/180R OR BX	<a href="#">1610570000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Crimp connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190128180	50 pc(s).	IEC: 400 V / 21 A UL: 300 V / 10 A / AWG 26 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLZP 5.08/180F SN**


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. Can be fastened with flange or release latch. They also feature the integrated plus/minus screw, protection from under insertion of wire, and are delivered with open clamping yoke.

- 0.2 – 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08/10/180F SN OR BX	<a href="#">1944170000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248618750	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08/10/180F SN BK BX	<a href="#">1944410000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248618989	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**BLZF 5.08/180LH**


Female plugs with the time-saving tension-clamp wire connection system, with straight outlet direction and release lever or release latch mechanism. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/180LH SN BK BX	<a href="#">1893240000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248507382	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
BLZF 5.08/10/180LH SN OR BX	<a href="#">1895800000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°,	4032248510627	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

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**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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Germany  
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www.weidmueller.com

**Mating connector (fully pluggable)**

Tension clamp connection,  
Clamping range, rated  
connection, max.: 3.31  
mm<sup>2</sup>, Box

**BLZ 5.08/180LH**


Female plugs with clamping-yoke screw connection for wire, with straight wire outlet and release lever mechanism. The female plugs provide space for labelling and can be coded.

- 0.2 - 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 5.08/10/180LH SN OR BX	<a href="#">1892270000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248505678	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
BLZ 5.08/10/180LH SN BK BX	<a href="#">1893680000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248507863	40 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

**BLZF 5.08/180F**


Female plugs with tension-clamp wire connection system, straight 180° outlet direction. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 5.08/10/180F SN OR BX	<a href="#">1803410000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated	4032248258819	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (fully pluggable)**

		connection, max.: 3.31 mm <sup>2</sup> , Box		
BLZF	<a href="#">1803640000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248259045 30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12
5.08/10/180F				
SN BK BX				

**BLZP 5.08/270LH SN**


Female plugs with clamping-yoke screw connection for wire connection and a right-angle (90° or 270°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They feature an integrated plus/minus screw, protection against false insertion under clamping yoke. They are delivered with an opened clamping yoke.

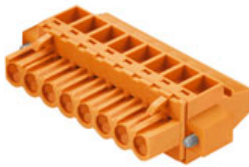
- 0.2 – 2.5 mm<sup>2</sup> (IEC) / 26-12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP	<a href="#">1947090000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248622955 30 pc(s).		IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
5.08HC/10/270LH						
SN OR BX						
BLZP	<a href="#">1947320000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248623297 30 pc(s).		IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
5.08HC/10/270LH						
SN BK BX						

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLZP 5.08/90F SN**


Female plugs with clamping-yoke screw connection for wire connection and a right-angle (90° or 270°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They feature an integrated plus/minus screw, protection against false insertion under clamping yoke. They are delivered with an opened clamping yoke.

- 0.2 – 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
BLZP 5.08HC/10/90F SN BK BX	<a href="#">1950120000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248628056	30 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08HC/10/90F SN OR BX	<a href="#">1949880000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248627806	30 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

**BLZP 5.08/270F SN**


Female plugs with clamping-yoke screw connection for wire connection and a right-angle (90° or 270°) outlet direction. The female plugs provide space for labelling and can be coded. Can be fastened with flange or release latch. They feature an integrated plus/minus screw, protection against false insertion under clamping yoke. They are delivered with an opened clamping yoke.

- 0.2 – 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
BLZP 5.08HC/10/270F SN OR BX	<a href="#">1950390000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248628513	30 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08HC/10/270F SN BK BX	<a href="#">1950660000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 270°, Clamping yoke connection,	4032248629039	30 pc(s).	IEC: 400 V / 15.5 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

## OMNIMATE Signal - series BL/SL 5.08 SL-SMT 5.08/10/180F 3.2SN BK BX

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### Mating connector (fully pluggable)

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

#### BLZP 5.08/180LH SN



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. Can be fastened with flange or release latch. They also feature the integrated plus/minus screw, protection from under insertion of wire, and are delivered with open clamping yoke.

- 0.2 – 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

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP 5.08/10/180LH SN OR BX	<a href="#">1945370000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248620548	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box
BLZP 5.08/10/180LH SN BK BX	<a href="#">1945600000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248620777	30 pc(s).	IEC: 400 V / 19 A / 0.2 - 4 mm <sup>2</sup> UL: 300 V / 15 A / AWG 30 - AWG 12	Box

#### BLT 5.08LH



Female plugs with TOP screw connection for wire, with straight wire outlet and release lever mechanism. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT 5.08HC/10/180LH SN BK BX	<a href="#">1892570000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping	4032248506613	30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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**Mating connector (fully pluggable)**

		range, rated connection, max.: 2.5 mm <sup>2</sup> , Box		
BLT	<a href="#">1890070000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping	4032248498482 30 pc(s).	IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14
5.08HC/10/180LH SN OR BX		range, rated connection, max.: 2.5 mm <sup>2</sup> , Box		

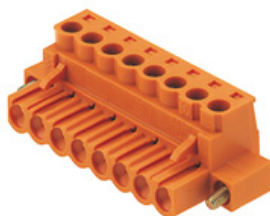
**BLT 5.08F**


Female plugs with TOP screw connection for wire, with straight wire outlet and screw flange. The female plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT	<a href="#">1844070000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping	4032248355990 30 pc(s).		IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box
5.08HC/10/180F SN OR BX		range, rated connection, max.: 2.5 mm <sup>2</sup> , Box				
BLT	<a href="#">1844300000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°, TOP connection, Clamping	4032248356232 30 pc(s).		IEC: 400 V / 17 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 13 A / AWG 26 - AWG 14	Box
5.08HC/10/180F SN BK BX		range, rated connection, max.: 2.5 mm <sup>2</sup> , Box				

**BLZ 5.08/180F**


Female plugs with clamping-yoke screw connection for wire, with straight wire outlet and screw flange. The female plugs provide space for labelling and can be coded.

- 0.2 - 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**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ	<a href="#">1802910000</a>	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 10, 180°	4032248257980 30 pc(s).		IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 12	Box
5.08/10/180F SN OR BX						

Creation date December 8, 2013 2:28:28 AM CET

**OMNIMATE Signal - series BL/SL 5.08  
SL-SMT 5.08/10/180F 3.2SN BK BX**

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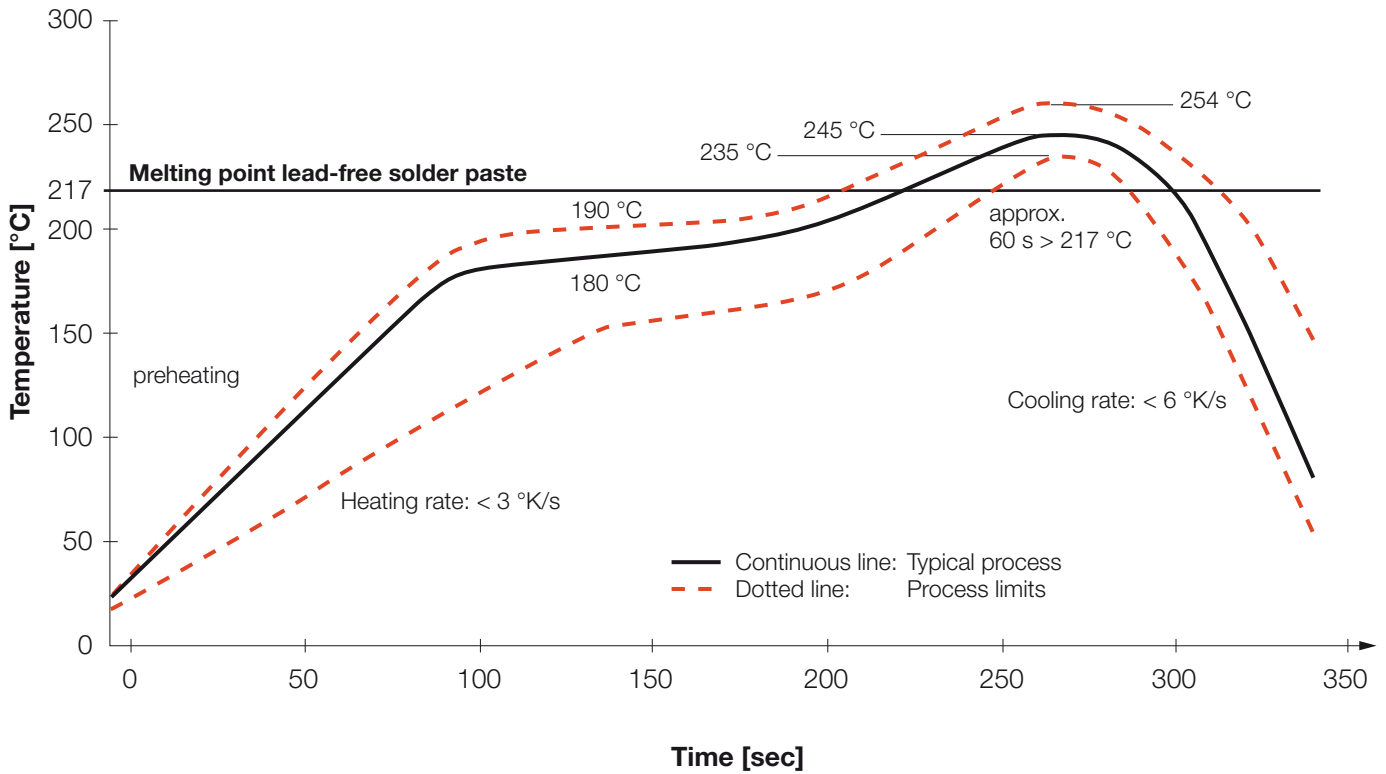
**Mating connector (fully pluggable)**

Clamping yoke connection,  
 Clamping range, rated  
 connection, max.: 3.31  
 mm<sup>2</sup>, Box

BLZ	<a href="#">1803120000</a>	PCB plug-in connector,	4032248258222 30 pc(s).	IEC: 400 V / 19 A / 0.2 - 2.5 mm <sup>2</sup>	Box
5.08/10/180F		female plug, 5.08 mm,		UL: 300 V / 15 A / AWG 26 - AWG 12	
SN BK BX		No. of poles: 10, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 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.

