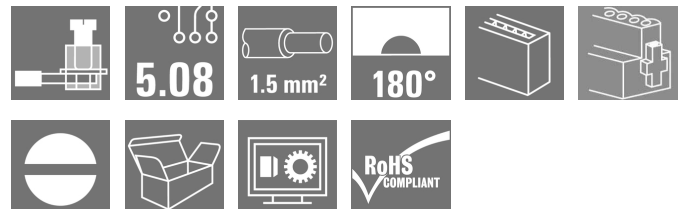


**OMNIMATE Signal - series BL/SL 5.08
SLS 5.08/16/180FI SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Product image

Similar to illustration

Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLS 5.08/16/180FI SN OR BX
Order No.	1846350000
Version	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 16, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box
GTIN (EAN)	4032248362639
Qty.	18 pc(s).
Product data	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm² UL: 300 V / 14 A / AWG 26 - AWG 12
Packaging	Box

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

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Technical data

Dimensions and weights

Height	15.2 mm	Height (inches)	0.598 inch
Depth	22.3 mm	Depth (inches)	0.878 inch
Net weight	75.89 g		

System parameters

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Conductor outlet direction	180°
No. of poles	16	L1 in mm	76.2 mm
L1 in inches	3 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Finger-safe plugged/ back-of-hand-safe unplugged
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	7 mm	Tightening torque for screw flange, min.	0.15 Nm
Tightening torque for screw flange, max.	0.2 Nm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 2.5
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264-A
Plugging cycles	25	Plugging force/pole, max.	4 N
Pulling force/pole, max.	3 N		

Material data

Insulating material	PBT	Colour	Orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
CTI	≥ 200	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	CuSn
Contact surface	tinned	Layer structure of plug contact	4-8 μm Sn hot-dip tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	3.31 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	2.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.0 mm; 2.4 mm		

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Technical data
Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	21.5 A
Rated current, max. no. of poles (Tu=20°C)	16 A	Rated current, min. no. of poles (Tu=40°C)	18 A
Rated current, max. no. of poles (Tu=40°C)	14 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s with 120 A

Rated data acc. to CSA

Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	15 A	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	14 A	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packaging

Packaging	Box	VPE length	65 mm
VPE width	90 mm	VPE height	300 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

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Technical data

Notes

Notes	<ul style="list-style-type: none"> • Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • 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	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Approvals

Approvals	
ROHS	Conform

Downloads

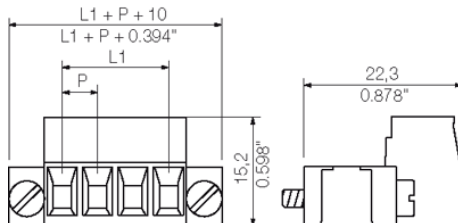
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	WSCAD
Engineering Data	STEP

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

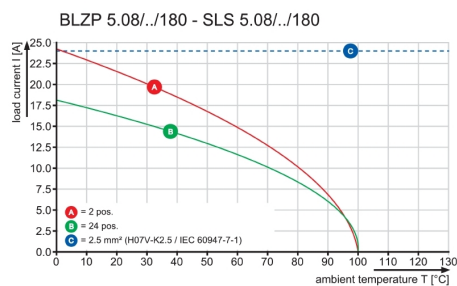
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Drawings

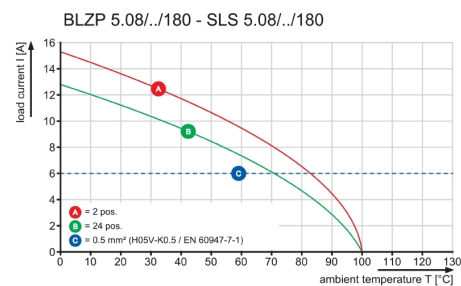
Dimensional drawing



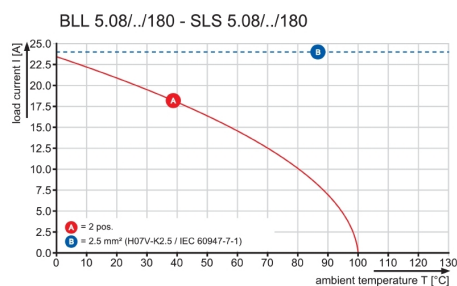
Graph



Graph



Graph

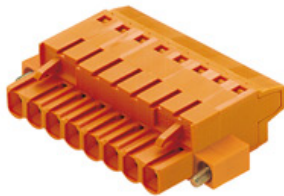


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Mating connector (fully pluggable)

BLT 5.08HC/180F



Female plugs with TOP screw connection system for connecting wires with straight outlet direction and screw flange. The female connectors provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLT 5.08HC/16/180F SN OR BX	1844130000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 180°, TOP connection, Clamping range, max.: 2.5 mm², Box	4032248356058	18 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm² UL: 300 V / 17 A / AWG 26 - AWG 14	Box
BLT 5.08HC/16/180F SN BK BX	1844360000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 180°, TOP connection, Clamping range, max.: 2.5 mm², Box	4032248356294	18 pc(s).	IEC: 400 V / 27 A / 0.2 - 2.5 mm² UL: 300 V / 17 A / AWG 26 - AWG 14	Box

BLL 5.08/90FI



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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL 5.08/16/90FI 3.2SN OR BX	1843890000	PCB plug-in connector, female header, Inverted flange, THT solder connection, 5.08 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4032248355648	18 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

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Mating connector (fully pluggable)

BLZP 5.08HC/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 5.08HC/16/90F SN OR BX	1949940000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 90°, Clamping yoke connection, Clamping range, max.: 4 mm ² , Box	4032248627875	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12	Box
BLZP 5.08HC/16/90F SN BK BX	1950180000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 90°, Clamping yoke connection, Clamping range, max.: 4 mm ² , Box	4032248628117	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12	Box

BLF 5.08HC/90F SN



Just as reliable as the millionfold proven original and featuring innovative details:
The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has 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 5.08HC offers just as much as the version which served as a model:

- 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
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/16/90F SN BK BX	1000360001	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 90°, PUSH IN, Spring connection, Clamping range, max.: 3.31 mm ² , Box	4032248690329	18 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

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Mating connector (fully pluggable)

BLF 5.08HC/16/90F SN OR BX	1002230000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², Box	4032248694389 18 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
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BLF 5.08HC/180F SN



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 5.08HC/16/180F SN OR BX	1013240000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², Box	4032248720989 18 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box
BLF 5.08HC/16/180F SN BK BX	1012970000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², Box	4032248720736 18 pc(s).		IEC: 400 V / 24 A / 0.2 - 2.5 mm² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

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Mating connector (fully pluggable)

BLZP 5.08HC/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

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued 2016-04-08T00:00:00+02:00	BLZP 5.08HC/16/270F SN BK BX	1950730000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	4032248629138	18 pc(s).
BLZP 5.08HC/16/270F SN OR BX	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	4032248628575	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 26 - AWG 12	Box

BLZP 5.08HC/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 5.08HC/16/180F SN BK BX	1944470000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	4032248619047	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 26 - AWG 12	Box
BLZP 5.08HC/16/180F SN OR BX	1944230000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 180°, Clamping yoke connection,	4032248618811	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm² UL: 300 V / 20 A / AWG 26 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

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Mating connector (fully pluggable)

Clamping range, max. : 4
mm², Box

BLF 5.08HC/270F SN



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- 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
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued 2016-04-08T00:00:00+02:00	BLF 5.08HC/16/270F SN BK BX	1982260000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ² , Box	4032248686353	18 pc(s).
BLF 5.08HC/16/270F SN OR BX	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 16, 270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ² , Box	4032248687121	18 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/16/180FI SN OR BX

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Accessories

Additional accessories



No task is too small when creating the perfect solution. br />

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

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

General ordering data

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

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ/SL KO BK BX	1545710000	PCB plug-in connector, Accessories, Coding	4008190087142	50 pc(s).	UL:	Box

OMNIMATE Signal - series BL/SL 5.08
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Accessories

	element, Black, No. of poles: 1			
BLZ/SL KO OR 1573010000 BX	PCB plug-in connector, Accessories, Coding element, Orange, No. of poles: 1	4008190048396 100 pc(s).	UL:	Box