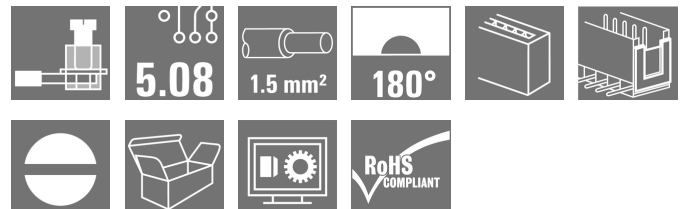


**OMNIMATE Signal - series BL/SL 5.08
SLS 5.08/20/180TB RF15 SN OR BX**

Weidmüller Interface GmbH & Co. KG
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 Germany
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 www.weidmueller.com

Product image


Similar to illustration

Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLS 5.08/20/180TB RF15 SN OR BX
Order No.	1846110000
Version	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 20, 180°, Clamping yoke connection, Clamping range, max.: 3.31 mm², Box
GTIN (EAN)	4032248362394
Qty.	5 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 5.08/20/180TB RF15 SN OR BX

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Technical data
Dimensions and weights

Height	30 mm	Height (inches)	1.181 inch
Depth	39.4 mm	Depth (inches)	1.551 inch
Net weight	44.8 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	20	L1 in mm	96.52 mm
L1 in inches	3.8 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
Stripping length	7 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25

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 %		

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

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		


**OMNIMATE Signal - series BL/SL 5.08
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Technical data
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	45 mm
VPE width	131 mm	VPE height	226 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		

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.

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Technical data

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](#)
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[FL_BASE_STATION_EN](#)
[FL ELEVATOR EN](#)
[FL POWER SUPPLY EN](#)
[FL 72H SAMPLE SER EN](#)
[PO OMNIMATE EN](#)

Engineering Data

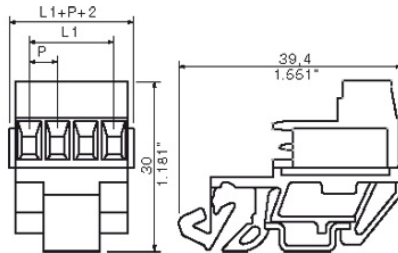
[WSCAD](#)

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

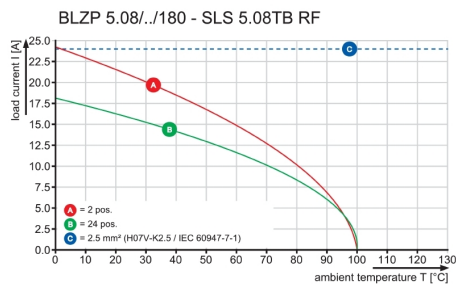
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Drawings

Dimensional drawing



Graph



OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

BLL 5.08/180B



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 5.08/20/180B 3.2SN OR BX	1682910000	PCB plug-in connector, female header, Dovetails for fixing blocks, THT solder connection, 5.08 mm, No. of poles: 20, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190474676	18 pc(s).	IEC: 400 V / 23 A UL: 300 V / 15 A	Box

BLZP 5.08HC/225B SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) 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/20/225B SN OR BX	1945930000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 225°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	4032248621453	18 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm² UL: 300 V / 15 A / AWG 26 - AWG 12	Box
Discontinued	2016-04-08T00:00:00+02:00	BLZP 5.08HC/20/225B SN BK BX	1946160000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 225°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	4032248621736	18 pc(s).

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

BLL 5.08/90



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	1648490000	PCB plug-in connector,	4008190292966	18 pc(s).	IEC: 400 V / 23 A	Box
5.08/20/90		female header, closed side,			UL: 300 V / 15 A	
3.2 SN OR BX		THT solder connection,				
		5.08 mm, No. of poles: 20,				
		90°, Solder pin length (l):				
		3.2 mm, tinned, Orange,				
		Box				

BLF 5.08HC/270 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

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued	2016-04-08T00:00:00+02:00	BLF 5.08HC/20/270 SN	1982110000	PCB plug-in	4032248685806	18
		BK BX		connector,		pc(s).
				female plug,		
				5.08 mm, No. of		
				poles: 20, 270°,		
				PUSH IN, Spring		
				connection,		
				Clamping range,		
				max. : 3.31 mm ² ,		
				Box		

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

BLF	1982880000	PCB plug-in connector,	4032248686971 18 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
5.08HC/20/270		female plug, 5.08 mm, No.		UL: 300 V / 18.5 A / AWG 26 - AWG	
SN OR BX		of poles: 20, 270°, PUSH		12	
		IN, Spring connection,			
		Clamping range, max. :			
		3.31 mm ² , Box			

BLZP 5.08HC/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	1943760000	PCB plug-in connector,	4032248617777 18 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/20/180		female plug, 5.08 mm,			UL: 300 V / 20 A / AWG 26 - AWG 12	
SN OR BX		No. of poles: 20, 180°,				
		Clamping yoke connection,				
		Clamping range, max. : 4				
		mm ² , Box				
BLZP	1943990000	PCB plug-in connector,	4032248618163 18 pc(s).		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/20/180		female plug, 5.08 mm,			UL: 300 V / 20 A / AWG 26 - AWG 12	
SN BK BX		No. of poles: 20, 180°,				
		Clamping yoke connection,				
		Clamping range, max. : 4				
		mm ² , Box				

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

BLF 5.08HC/180 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/20/180 SN OR BX	1013880000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², Box	4032248721986	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/20/180 SN BK BX	1013630000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², Box	4032248721764	18 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm² UL: 300 V / 18.5 A / AWG 26 - AWG 12	Box

BLZP 5.08HC/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

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
Discontinued 2016-04-08T00:00:00+02:00	BLZP 5.08HC/20/270 SN BK BX	1949200000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 270°, Clamping	4032248626656	18 pc(s).

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

yoke connection,
Clamping range,
max. : 4 mm², Box

BLZP	1948970000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 270°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box	4032248626427 18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12	Box
5.08HC/20/270					
SN OR BX					

BLZP 5.08HC/225 SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) 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	1946740000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 225°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box	4032248622511 18 pc(s).		IEC: 400 V / 17.5 A / 0.2 - 4 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12	Box
5.08HC/20/225						
SN BK BX						
BLZP	1946430000	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 225°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box	4032248622207 18 pc(s).		IEC: 400 V / 17.5 A / 0.2 - 4 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12	Box
5.08HC/20/225						
SN OR BX						

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

BLF 5.08HC/90 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	1001710000	PCB plug-in connector,	4032248693511	18 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
5.08HC/20/90		female plug, 5.08 mm, No.			UL: 300 V / 18.5 A / AWG 26 - AWG	
SN OR BX		of poles: 20, 90°, PUSH			12	
		IN, Spring connection,				
		Clamping range, max. :				
		3.31 mm ² , Box				
Discontinued	2016-04-08T00:00:00+02:00	BLF 5.08HC/20/90 SN BK BX	1000210001	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 20, 90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ² , Box	4032248690169	18 pc(s).

OMNIMATE Signal - series BL/SL 5.08

SLS 5.08/20/180TB RF15 SN OR BX

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Mating connector (fully pluggable)

BLL 5.08/180



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	1648970000	PCB plug-in connector,	4008190293451	18 pc(s).	IEC: 400 V / 23 A	Box
5.08/20/180		female header, closed side,			UL: 300 V / 15 A	
3.2 SN OR BX		THT solder connection,				
		5.08 mm, No. of poles: 20,				
		180°, Solder pin length (l):				
		3.2 mm, tinned, Orange,				
		Box				

BLZP 5.08HC/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	1948190000	PCB plug-in connector,	4032248624713	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/20/90		female plug, 5.08 mm, No.			UL: 300 V / 20 A / AWG 26 - AWG 12	
SN OR BX		of poles: 20, 90°, Clamping				
		yoke connection, Clamping				
		range, max. : 4 mm ² , Box				
BLZP	1948420000	PCB plug-in connector,	4032248624942	18 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/20/90		female plug, 5.08 mm, No.			UL: 300 V / 20 A / AWG 26 - AWG 12	
SN BK BX		of poles: 20, 90°, Clamping				
		yoke connection, Clamping				
		range, max. : 4 mm ² , Box				

OMNIMATE Signal - series BL/SL 5.08 SLS 5.08/20/180TB RF15 SN OR BX

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Accessories

Blocks for PCB mounting



Minor component, major effect:

Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLA BB4 OR	1571720000	PCB plug-in connector, Accessories, Mounting block, Orange, No. of poles: 1	4008190098995	50 pc(s).	UL:	Box
SLA BB8 RH OR	1446060000	PCB plug-in connector, Accessories, Mounting block, Orange, No. of poles: 1	4008190084585	20 pc(s).	UL:	Box

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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
SLS 5.08/20/180TB RF15 SN OR BX

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www.weidmueller.com

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