OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Similar to illustration

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

General ordering data

Type	SL-SMT 5.08HC/03/90LF 1.5SN BK RL
Order No.	1775244001
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 5.08 mm, Number of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, black, Tape
GTIN (EAN)	4032248167791
Qty.	350 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Tape

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Technical data

Dimensions and weights

Width	25.04 mm	Width (inches)	0.986 inch
Height	10 mm	Height (inches)	0.394 inch
Height of lowest version	8.5 mm	Depth	12 mm
Depth (inches)	0.472 inch	Net weight	3.56 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
Number of poles	3	Number of solder pins per pole	1
Solder pin length (l)	1.5 mm	Solder pin length tolerance	0 / -0.3 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder eyelet hole diameter (D)	1.5 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
L1 in mm	10.16 mm	L1 in inches	0.4 inch
Number of rows	1	Pin series quantity	1
Volume resistance	≤ 5mΩ	Can be coded	Yes
Plugging cycles	25	Plugging force/pole, max.	9 N
Pulling force/pole, max.	7 N		

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Insulation strength	≥ 10^8 Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
GWIT	930 °C	GWFI	960 °C
Contact material	CuMg	Contact surface	tinned
Layer structure of solder connection	1-3 µm Ni / 2-4 µm Sn matt	Layer structure of plug contact	1-3 µm Ni / 2-4 µm Sn matt
Storage temperature, min.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	27.5 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	16.5 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		

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Technical data

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	
			200039-1176845
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	18.5 A	Rated current (Use group D / CSA)	18.5 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	
			E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	18.5 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Tape	VPE length	60 mm
VPE width	330 mm	VPE height	330 mm
Tape depth (T2)	13 mm	Tape width (W)	32 mm
Tape pocket depth (K0)	12.5 mm	Tape pocket height (A0)	12.3 mm
Tape pocket width (B0)	32.5 mm	Tape pocket separation (P1)	16 mm
Tape hole separation (E)	1.75 mm	Tape pocket separation (F)	20.2 mm
Tape reel diameter ⌀ (A)	330 mm	Surface resistance	$Rs = 10^9 - 10^{12} \, \Omega$

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10

Notes

Notes	• Gold-plated contact surfaces on request
	• Rated current related to rated cross-section & min. No. of poles.
	• P on drawing = pitch
	• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
IPC conformity	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.

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Technical data

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	MB SMT EN
	FL DRIVES DE
	MB DEVICE MANUF. EN
	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
White paper surface mount technology	Download Whitepaper

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Drawings

Dimensional drawing

HOLE PATTERN   PASTE-FREE-AREA
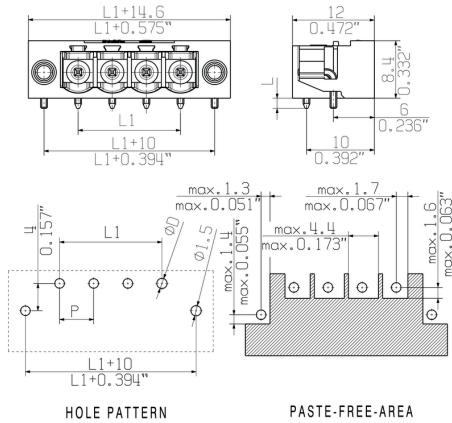
Example of use

Safe power transmission
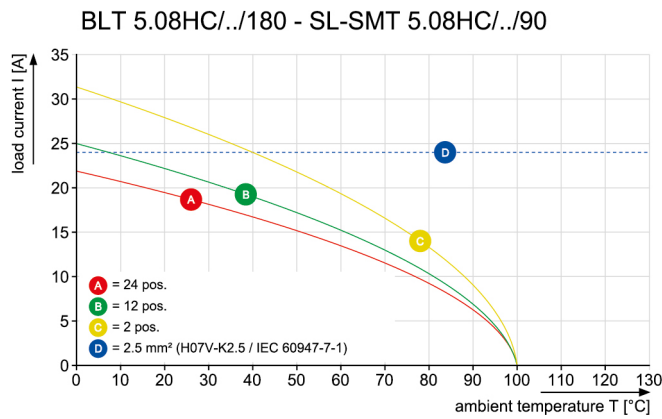
Graph

BLT 5.08HC/../180 - SL-SMT 5.08HC/../90

A = 24 pos.
B = 12 pos.
C = 2 pos.
D = 2.5 mm² (H07V-K2.5 / IEC 60947-7-1)

Product benefits

Proven properties

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (conditionally pluggable)

BLZ 5.00/270

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

General ordering data

Type	BLZ 5.00/03/270 SN DKGN ...	Version		Product data	Packaging
Order No.	1649900000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,		IEC: 400 V / 15 A / 0.5 - 2.5 mm²	Box
GTIN (EAN)	4008190296483	270°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 12	
Qty.	100 pc(s).	Box			

BLT 5.08HC/180B

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

General ordering data

Type	BLT 5.08HC/03/180B SN O ...	Version		Product data	Packaging
Order No.	1501960000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190186586	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	102 pc(s).				
Type	BLT 5.08HC/03/180B SN B ...	Version		Product data	Packaging
Order No.	1501910000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190863661	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	102 pc(s).				

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (conditionally pluggable)

BLL 5.08/180

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

General ordering data

Type	BLL 5.08/03/180 4.5SN O ...	Version		Product data	Packaging
Order No.	1646150000	PCB plug-in connector, female header, closed side, THT solder		IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285494	connection, 5.08 mm, Number of poles: 3, 180°, Solder pin length (l):	UL: 300 V / 15 A	
Qty.	100 pc(s).	4.5 mm, tinned, orange, Box			
Type	BLL 5.08/03/180 4.5 SN ...	Version		Product data	Packaging
Order No.	1646260000	PCB plug-in connector, female header, closed side, THT solder		IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285609	connection, 5.08 mm, Number of poles: 3, 180°, Solder pin length (l):	UL: 300 V / 15 A	
Qty.	120 pc(s).	4.5 mm, tinned, black, Box			

BLL 5.08/90

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

General ordering data

Type	BLL 5.08/03/90 4.5 SN O ...	Version		Product data	Packaging
Order No.	1645930000	PCB plug-in connector, female header, closed side, THT solder		IEC: 400 V / 23 A	Box
GTIN (EAN)	4008190285272	connection, 5.08 mm, Number of poles: 3, 90°, Solder pin length (l):	UL: 300 V / 15 A	
Qty.	120 pc(s).	4.5 mm, tinned, orange, Box			

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (conditionally pluggable)

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.

General ordering data

Type	BLZ 5.08/03/180 SN OR B ...	Version		Product data	Packaging
Order No.	1594250000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 19 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190011918	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	120 pc(s).	Box			
Type	BLZ 5.08/03/180 SN GY BX	Version		Product data	Packaging
Order No.	1526500000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 19 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190267124	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	100 pc(s).	Box			
Type	BLZ 5.08/03/180 SN DKGN ...	Version		Product data	Packaging
Order No.	1526550000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 19 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190143442	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	100 pc(s).	Box			
Type	BLZ 5.08/03/180 SN BL BX	Version		Product data	Packaging
Order No.	1526580000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 19 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190286422	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	100 pc(s).	Box			

BLZ 5.00/180

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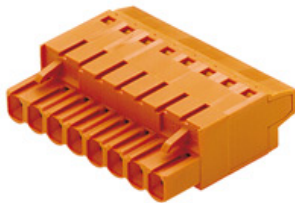
General ordering data

Type	BLZ 5.00/03/180 SN DKGN ...	Version		Product data	Packaging
Order No.	1646830000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,		IEC: 400 V / 19 A / 0.5 - 2.5 mm²	Box
GTIN (EAN)	4008190288037	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	100 pc(s).	Box			

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (conditionally pluggable)

BLT 5.08HC

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

General ordering data

Type	BLT 5.08HC/03/180 SN BL ...	Version		Product data	Packaging
Order No.	1499680000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248015450	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	120 pc(s).				

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.

General ordering data

Type	BLZF 5.08/03/180 SN GY ...	Version		Product data	Packaging
Order No.	1708080000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 17 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4008190317515	180°, Tension-clamp connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 15 A / AWG 26 - AWG 12	
Qty.	120 pc(s).	Box			

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

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	BLZP 5.08HC/03/180F SN ...	Version		Product data	Packaging
Order No.	1944100000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248617487	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				
Type	BLZP 5.08HC/03/180F SN ...	Version		Product data	Packaging
Order No.	1944340000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248618910	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				

BLF 5.08HC/180LR 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	BLF 5.08HC/03/180LR SN ...	Version		Product data	Packaging
Order No.	1014380000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248722976	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box		12	
Type	BLF 5.08HC/03/180LR SN ...	Version		Product data	Packaging
Order No.	1014130000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248723201	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box		12	

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLF 5.08HC/270LR 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	BLF 5.08HC/03/270LR SN ...	Version		Product data	Packaging
Order No.	1982320000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248686414	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box		12	
Type	BLF 5.08HC/03/270LR SN ...	Version		Product data	Packaging
Order No.	1983090000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248687183	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box		12	

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

Type	BLZP 5.08HC/03/270F SN ...	Version	Product data	Packaging
Order No.	1950320000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248628438	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).			
Type	BLZP 5.08HC/03/270F SN ...	Version	Product data	Packaging
Order No.	1950560000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248628698	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).			

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLL 5.08/90FI

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

General ordering data

Type	BLL 5.08/03/90FI 3.2SN ...	Version		Product data	Packaging
Order No.	1843760000	PCB plug-in connector, female header, Inverted flange, THT solder		IEC: 400 V / 23 A	Box
GTIN (EAN)	4032248355518	connection, 5.08 mm, Number of poles: 3, 90°, Solder pin length (l):		UL: 300 V / 15 A	
Qty.	72 pc(s).	3.2 mm, tinned, orange, Box			

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	BLT 5.08HC/03/180F SN O ...	Version		Product data	Packaging
Order No.	1844000000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248355921	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	72 pc(s).				
Type	BLT 5.08HC/03/180F SN B ...	Version		Product data	Packaging
Order No.	1844230000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248356164	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	72 pc(s).				

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLDF 5.08/180F SN

The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5A current-carrying capacity.
The large clamping capacity (up to 2.5mm² wire cross-sections) is particularly beneficial for long bus cables or high currents because of the low voltage drop.
Four flange variations, including the patented release latch, allow for user-friendly unplugging designs.

General ordering data

Type	BLDF 5.08/03/180F SN OR ...	Version		Product data		Packaging
Order No.	1012060000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm²		Box
GTIN (EAN)	4032248818037	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 12 - AWG		
Qty.	48 pc(s).	Box		26		
Type	BLDF 5.08/03/180F SN BK ...	Version		Product data		Packaging
Order No.	1000950000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm²		Box
GTIN (EAN)	4032248817085	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 12 - AWG		
Qty.	48 pc(s).	Box		26		

BLF 5.08HC/90LR 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	BLF 5.08HC/03/90LR SN B ...	Version		Product data		Packaging
Order No.	1000420001	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²		Box
GTIN (EAN)	4032248690381	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	72 pc(s).	Box		12		
Type	BLF 5.08HC/03/90LR SN O ...	Version		Product data		Packaging
Order No.	1002290000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²		Box
GTIN (EAN)	4032248694457	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	72 pc(s).	Box		12		

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLF 5.08HC/180F 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	BLF 5.08HC/03/180F SN O ...	Version		Product data	Packaging
Order No.	1013090000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248853397	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box		12	
Type	BLF 5.08HC/03/180F SN B ...	Version		Product data	Packaging
Order No.	1012650000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248720309	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box		12	

BLT 5.08HC/180LR

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

General ordering data

Type	BLT 5.08HC/03/180LR SN ...	Version		Product data	Packaging
Order No.	1890230000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248498710	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	72 pc(s).				
Type	BLT 5.08HC/03/180LR SN ...	Version		Product data	Packaging
Order No.	1894140000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 27 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248508389	180°, TOP connection, Clamping range, max. : 2.5 mm², Box		UL: 300 V / 17 A / AWG 26 - AWG 14	
Qty.	72 pc(s).				

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLDF 5.08/180LR SN

The powerful daisy-chain solution for high-performance signal bus applications is also suitable for 400V auxiliary power chains with 18.5 A current-carrying capacity. The large clamping capacity (up to 2.5mm² wire cross-sections) is particularly beneficial for long bus cables or high currents because of the low voltage drop.
Four flange variations, including the patented release latch, so you can design the interlock based on the requirements of the user.

General ordering data

Type	BLDF 5.08/03/180LR SN B ...	Version		Product data	Packaging
Order No.	1001020000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248817641	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	48 pc(s).	Box		26	
Type	BLDF 5.08/03/180LR SN O ...	Version		Product data	Packaging
Order No.	1065140000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 20.8 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248818082	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 12 - AWG	
Qty.	48 pc(s).	Box		26	

BLZP 5.08HC/90LR

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	BLZP 5.08HC/03/90LR SN ...	Version		Product data	Packaging
Order No.	1087260000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248853939	90°, Clamping yoke connection, Clamping range, max. : 4 mm², Box		UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				
Type	BLZP 5.08HC/03/90LR SN ...	Version		Product data	Packaging
Order No.	1087030000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248853441	90°, Clamping yoke connection, Clamping range, max. : 4 mm², Box		UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLZP 5.08HC/270LR SN

Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

General ordering data

Type	BLZP 5.08HC/03/270LR SN ...	Version		Product data	Packaging
Order No.	1947770000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248624164	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				
Type	BLZP 5.08HC/03/270LR SN ...	Version		Product data	Packaging
Order No.	1947540000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248623839	270°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				

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	BLZP 5.08HC/03/90F SN O ...	Version		Product data	Packaging
Order No.	1949810000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248627738	90°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				
Type	BLZP 5.08HC/03/90F SN B ...	Version		Product data	Packaging
Order No.	1950050000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248627981	90°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

BLZP 5.08HC/180LR SN

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

General ordering data

Type	BLZP 5.08HC/03/180LR SN ...	Version		Product data	Packaging
Order No.	1944840000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248619443	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box		UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				
Type	BLZP 5.08HC/03/180LR SN ...	Version		Product data	Packaging
Order No.	1945070000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 23 A / 0.2 - 4 mm²	Box
GTIN (EAN)	4032248620210	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box		UL: 300 V / 20 A / AWG 26 - AWG 12	
Qty.	72 pc(s).				

BLF 5.08HC/270F 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	BLF 5.08HC/03/270F SN B ...	Version	Product data	Packaging
Order No.	1982130000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248686223	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box	12	
Type	BLF 5.08HC/03/270F SN O ...	Version	Product data	Packaging
Order No.	1982900000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Box
GTIN (EAN)	4032248686995	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).	Box	12	

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Mating connector (fully pluggable)

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	BLF 5.08HC/03/90F SN OR ...	Version		Product data		Packaging
Order No.	1002100000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²		Box
GTIN (EAN)	4032248694051	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	72 pc(s).	Box		12		
Type	BLF 5.08HC/03/90F SN BK ...	Version		Product data		Packaging
Order No.	1000230001	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,		IEC: 400 V / 24 A / 0.2 - 2.5 mm²		Box
GTIN (EAN)	4032248690190	90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,		UL: 300 V / 18.5 A / AWG 26 - AWG		
Qty.	72 pc(s).	Box		12		

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Accessories

LED Light guides

Effective: the link between LED and front panel.
Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.
The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.
The advantages compared to conventional solutions:
- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

General ordering data

Type	SL FLA 3.8/1	Version		Product data	Packaging
Order No.	1580110000	PCB plug-in connector, Accessories, Flood-light display, Transparent,			Box
GTIN (EAN)	4008190050740	Number of poles: 1			
Qty.	100 pc(s).				
Type	SL FLA 2,3/1	Version		Product data	Packaging
Order No.	1636670000	PCB plug-in connector, Accessories, Flood-light display, Transparent,			Box
GTIN (EAN)	4008190409975	Number of poles: 1			
Qty.	100 pc(s).				
Type	SL FLA 2,3/24	Version		Product data	Packaging
Order No.	1636680000	PCB plug-in connector, Accessories, Flood-light display, Transparent,			Box
GTIN (EAN)	4008190409968	Number of poles: 1			
Qty.	10 pc(s).				
Type	SL FLA 3.8/24	Version		Product data	
Order No.	1595860000	PCB plug-in connector, Accessories, Flood-light display, Transparent,			
GTIN (EAN)	4008190140892	Number of poles: 1			
Qty.	10 pc(s).				
Type	SL FLA 9.0/24	Version		Product data	
Order No.	1595870000	PCB plug-in connector, Accessories, Flood-light display, Transparent,			
GTIN (EAN)	4008190079796	Number of poles: 1			
Qty.	10 pc(s).				
Type	SL FLA 9.0/1	Version		Product data	Packaging
Order No.	1580120000	PCB plug-in connector, Accessories, Flood-light display, Transparent,			Box
GTIN (EAN)	4008190031909	Number of poles: 1			
Qty.	100 pc(s).				

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Accessories

Type	SL FLA 1.5/1	Version		Product data		Packaging
Order No.	1580100000	PCB plug-in connector, Accessories, Flood-light display, Transparent,				Box
GTIN (EAN)	4008190152475	Number of poles: 1				
Qty.	100 pc(s).					
Type	SL FLA 1.5/24	Version		Product data		
Order No.	1595850000	PCB plug-in connector, Accessories, Flood-light display, Transparent,				
GTIN (EAN)	4008190092573	Number of poles: 1				
Qty.	10 pc(s).					

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

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

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
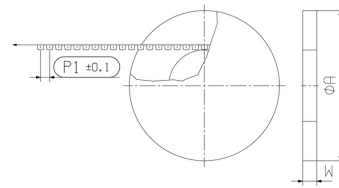
General ordering data

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

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OMNIMATE Signal - series BL/SL 5.08
SL-SMT 5.08HC/03/90LF 1.5SN BK RL

Drawings

Dimensional drawing

Dimensional drawing
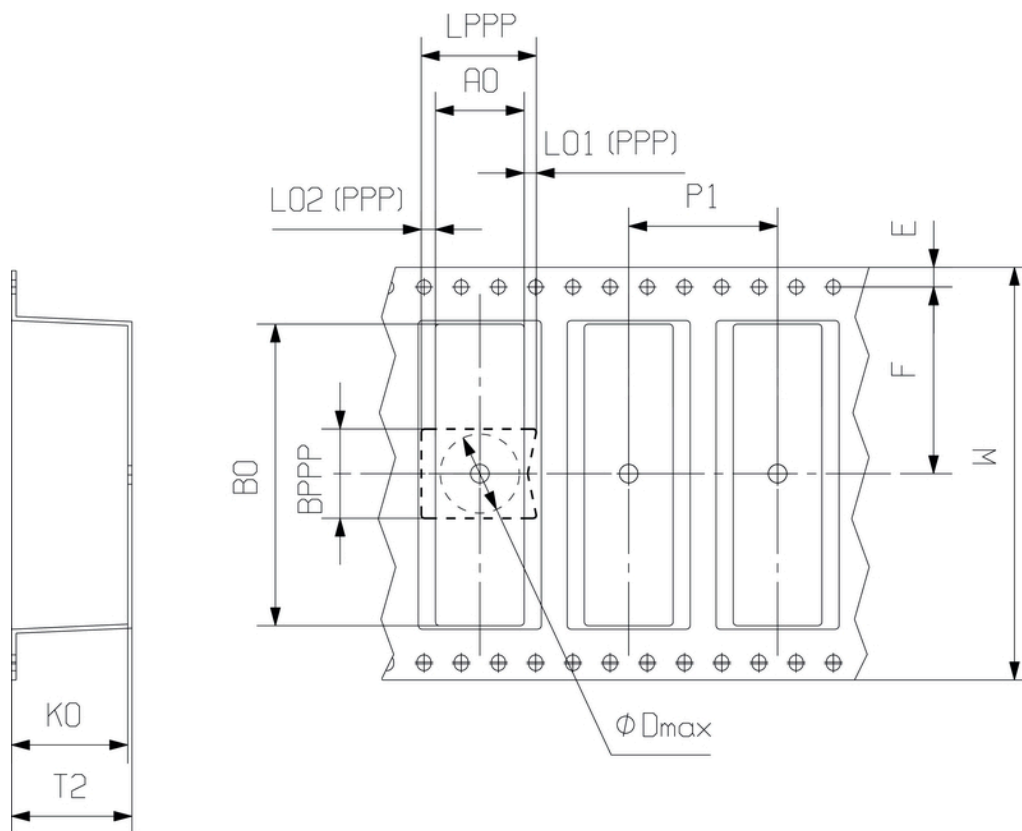
DIRECTION OF UNREELING

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Recommended wave solderding profiles

Single Wave:

Double Wave:

Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:
- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.

Recommended reflow soldering profile

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 ≤ +3K/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 ≥ -6K/s solder is cured. Board and components cool down while avoiding cold cracks.

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