

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com





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

Туре	SL-SMT 5.08HC/20/90LF 3.2SN BK BX
Order No.	<u>1780610000</u>
Version	PCB plug-in connector, male header, Solder flange, THT/THR solder connection, 5.08 mm, Number of poles: 20, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
GTIN (EAN)	4032248165919
Qty.	12 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Box

Creation date May 3, 2020 1:39:05 PM CEST

Technical data



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Dimensions and weights

Width	111.4 mm	Width (inches)	4.386 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Depth	12 mm
Depth (inches)	0.472 inch	Net weight	9.8 g

System specifications

Product family	OMNIMATE Signal - series	Type of connection	
	BL/SL 5.08		Board connection
Mounting onto the PCB	THT/THR solder	Pitch in mm (P)	
-	connection		5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
Number of poles	20	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin length tolerance	0 / -0.3 mm
Tolerance of solder pin position	± 0.20 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder eyelet hole diameter (D)	1.5 mm	Solder eyelet hole diameter tolerand	ce (D)+ 0,1 mm
L1 in mm	96.52 mm	L1 in inches	3.8 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	Illa
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		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	27.5 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	19 A	(Tu=40°C)	24 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	16.5 A	pollution degree II/2	400 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree III/2	320 V	pollution degree III/3	250 V
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree II/2	4 kV	class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage			
class/ contamination degree III/3	4 kV		

Technical data

Rated data acc. to CSA



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		Contracto No. (CCA)	
Institute (CSA)		Certificate No. (CSA)	
	(SP*		
			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)	A Ľ	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	
Rated current (Use group B / UL 1059)		Rated current (Use group D / UL 1059)	
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
	_		
Packaging	Box	VPE length	34 mm
VPE width	90 mm	VPE height	128 mm
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	l cross-section & min. No. of poles.	
	 P on drawing = pitch 		
	Rated data refer only to the c	omponent itself. Clearance and creepage distand	ces to other components are to
IPC conformity		vith the relevant application standards. eveloped, manufactured and delivered according	international recognized
		bly with the assured properties in the data sheet Class 2". Further claims on the products can be e	
Approvals			
A			
Approvals		N	
ROHS	Conform		

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

Technical data

Downloads

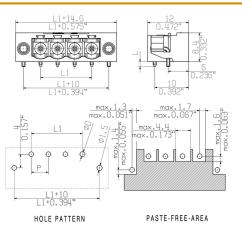
Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	MB SMT EN
	FL DRIVES DE
	MB DEVICE MANUF. EN
	CAT 2 PORTFOLIOGUIDE EN
	FL BUILDING SAFETY EN
	FL APPL LED LIGHTING EN
	FLINDUSTR.CONTROLS EN
	FL MACHINE SAFETY EN
	<u>FL HEATING ELECTR EN</u>
	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



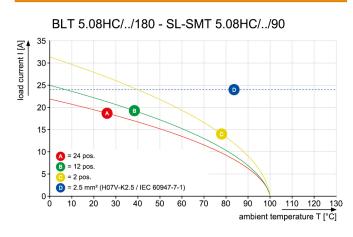
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Drawings

Dimensional drawing



Graph

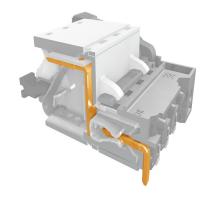




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Product benefits



Safe power transmission **Product benefits** Proven properties





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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

Туре	BLZ 5.00/20/270 SN DKGN	Version	Product data	Packaging
Order No.	<u>1650070000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 20,	IEC: 400 V / 15 A / 0.5 - 2.5 mm ²	Box
GTIN (EAN)	4008190296667	$270^\circ\!,$ Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 10 A / AWG 26 - AWG 1	2
Qty.	20 pc(s).	Box		

BLL 5.08/180



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

General ordering data Туре BLL 5.08/20/180 4.5SN B ... Version Product data Packaging Order No. 1649210000 PCB plug-in connector, female header, closed side, THT solder IEC: 400 V / 23 A Box GTIN (EAN) 4008190293697 connection, 5.08 mm, Number of poles: 20, 180°, Solder pin length UL: 300 V / 15 A Qty. 20 pc(s). (I): 4.5 mm, tinned, black, Box



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Mating connector (conditionally pluggable)

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

Туре	BLZ 5.00/20/180 SN DKGN	Version	Product data	Packaging
Order No.	<u>1647000000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 20,	IEC: 400 V / 19 A / 0.5 - 2.5 mm ²	Box
GTIN (EAN)	4008190288372	180°, Clamping yoke connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 15 A / AWG 26 - AWG 12	2
Qty.	20 pc(s).	Box		

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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

Туре	BLZP 5.08HC/20/180F SN	Version	Product data	Packaging
Order No.	<u>1944270000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248618859	180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/20/180F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/180F SN 1944510000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,		Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

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

Packaging
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Mating connector (fully pluggable)

BLF 5.08HC/270LR SN

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- 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

	-			
Туре	BLF 5.08HC/20/270LR SN	Version	Product data	Packaging
Order No.	<u>1982490000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248686582	270°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	12 pc(s).	Box	12	
Туре	BLF 5.08HC/20/270LR SN	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/20/270LR SN 1983260000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm²	Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	

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

Туре	BLZP 5.08HC/20/270F SN	Version	Product data	Packaging
Order No.	<u>1950770000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248629176	270°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/20/270F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/270F SN 1950490000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

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Mating connector (fully pluggable)

BLL 5.08/90FI



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

General ordering data

Туре	BLL 5.08/20/90FI 3.2SN	Version	Product data	Packaging
Order No.	<u>1843930000</u>	PCB plug-in connector, female header, Inverted flange, THT solder	IEC: 400 V / 23 A	Box
GTIN (EAN)	4032248355686	connection, 5.08 mm, Number of poles: 20, 90°, Solder pin length (I):	UL: 300 V / 15 A	
Qty.	12 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

Туре	BLT 5.08HC/20/180F SN B	Version	Product data	Packaging
Order No.	<u>1844400000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248356331	180°, TOP connection, Clamping range, max. : 2.5 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 14	4
Qty.	12 pc(s).			
Туре	BLT 5.08HC/20/180F SN 0	Version	Product data	Packaging
Type Order No.	BLT 5.08HC/20/180F SN 0 1844170000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Packaging Box
				Box

Mating connector (fully pluggable)

BLF 5.08HC/90LR SN





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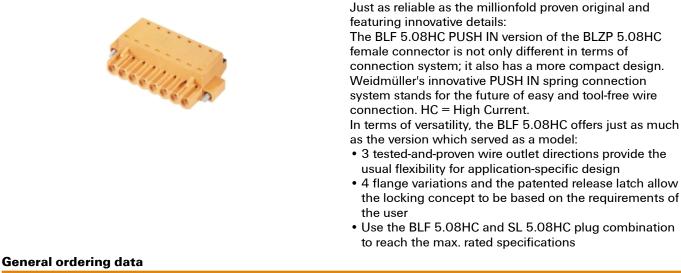
In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 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

	-			
Туре	BLF 5.08HC/20/90LR SN 0	Version	Product data	Packaging
Order No.	<u>1002460000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248694624	$90^\circ,$ PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	12 pc(s).	Box	12	
Туре	BLF 5.08HC/20/90LR SN B	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/20/90LR SN B 1000590001	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box

BLF 5.08HC/180F SN



Туре BLF 5.08HC/20/180F SN B ... Version Product data Packaging Order No. 1013020000 PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20, IEC: 400 V / 24 A / 0.2 - 2.5 mm² Box GTIN (EAN) 4032248720781 180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AWG Qty. 12 pc(s). Box 12

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Mating connector (fully pluggable)

Туре	BLF 5.08HC/20/180F SN 0	Version	Product data	Packaging
Order No.	<u>1013280000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248721023	180°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm ²	, UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	12 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

Туре	BLT 5.08HC/20/180LR SN	Version	Product data	Packaging
Order No.	<u>1894330000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248508655	180°, TOP connection, Clamping range, max. : 2.5 mm ² , Box	UL: 300 V / 17 A / AWG 26 - AWG 14	4
Qty.	12 pc(s).			
Туре	BLT 5.08HC/20/180LR SN	Version	Product data	Packaging
Type Order No.	BLT 5.08HC/20/180LR SN 1890400000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 27 A / 0.2 - 2.5 mm ²	Packaging Box
				Box

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

Туре	BLZP 5.08HC/20/90LR SN	Version	Product data	Packaging
Order No.	<u>1087200000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248854424	90°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box	UL: 300 V / 20 A / AWG 26 - AWG 1	2
Qty.	12 pc(s).			
_				
Туре	BLZP 5.08HC/20/90LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/90LR SN 1087430000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
				Box



Weidmüller Interface GmbH & Co. KG

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

Туре	BLZP 5.08HC/20/270LR SN	Version	Product data	Packaging
Order No.	<u>1947940000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248624430	$270^\circ,$ Clamping yoke connection, Clamping range, max. : 4 $mm^2,$ Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/20/270LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/270LR SN 1947710000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,		Packaging Box
			IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

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

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Туре	BLZP 5.08HC/20/90F SN B	Version	Product data	Packaging
Order No.	<u>1950220000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248628155	$90^\circ,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/20/90F SN 0	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/90F SN O 1949980000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 23 A / 0.2 - 4 mm ²	Packaging Box
				Box



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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

Туре	BLZP 5.08HC/20/180LR SN	Version	Product data	Packaging
Order No.	<u>1945240000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
GTIN (EAN)	4032248620388	$180^\circ,$ Clamping yoke connection, Clamping range, max. : 4 mm², Box	UL: 300 V / 20 A / AWG 26 - AWG 12	2
Qty.	12 pc(s).			
Туре	BLZP 5.08HC/20/180LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/180LR SN <u>1945010000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,		Packaging Box
<i>·</i> ·			IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

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

Туре	BLF 5.08HC/20/270F SN B	Version	Product data
Order No.	<u>1982300000</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²
GTIN (EAN)	4032248686391	$270^\circ,$ PUSH IN, Spring connection, Clamping range, max. : 3.31 $\text{mm}^2,$	UL: 300 V / 18.5 A / AWG 26 - AW
Qty.	12 pc(s).	Box	12
Туре	BLF 5.08HC/20/270F SN 0	Version	Product data
Type Order No.	BLF 5.08HC/20/270F SN O <u>1983070000</u>	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	
			IEC: 400 V / 24 A / 0.2 - 2.5 mm ²

General ordering data

Creation date May 3, 2020 1:39:05 PM CEST

Packaging

Packaging

Box

Box

AWG

AWG



Weidmüller Interface GmbH & Co. KG

Mating connector (fully pluggable)

BLF 5.08HC/90F SN





Weidmüller Interface GmbH & Co. KG

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General ordering data

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Туре	BLF 5.08HC/20/90F SN BK	Version	Product data	Packaging
Order No.	<u>1000400001</u>	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248690367	$90^\circ,$ PUSH IN, Spring connection, Clamping range, max. : 3.31 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	12 pc(s).	Box	12	
Туре	BLF 5.08HC/20/90F SN OR	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/20/90F SN OR 1002270000	Version PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20,	Product data IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Packaging Box
			IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box

100 miles

Accessories

LED Light guides

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General ordering data



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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

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

Accessories



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Туре	SL FLA 1.5/1	Version	Product data	Packaging
Order No.	<u>1580100000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190152475	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 1.5/24	Version	Product data	
Order No.	<u>1595850000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
	4008190092573	Number of poles: 1		
GTIN (EAN)	100010002070	•		

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

Туре	BLZ/SL KO OR BX	Version	Product data	Packaging
Order No.	<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number		Box
GTIN (EAN)	4008190048396	of poles: 1		
Qty.	100 pc(s).			
Туре	BLZ/SL KO BK BX	Version	Product data	Packaging
Type Order No.	BLZ/SL KO BK BX <u>1545710000</u>	Version PCB plug-in connector, Accessories, Coding element, black, Number	Product data	Packaging Box
	,		Product data	00

Accessories

Additional accessories





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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.

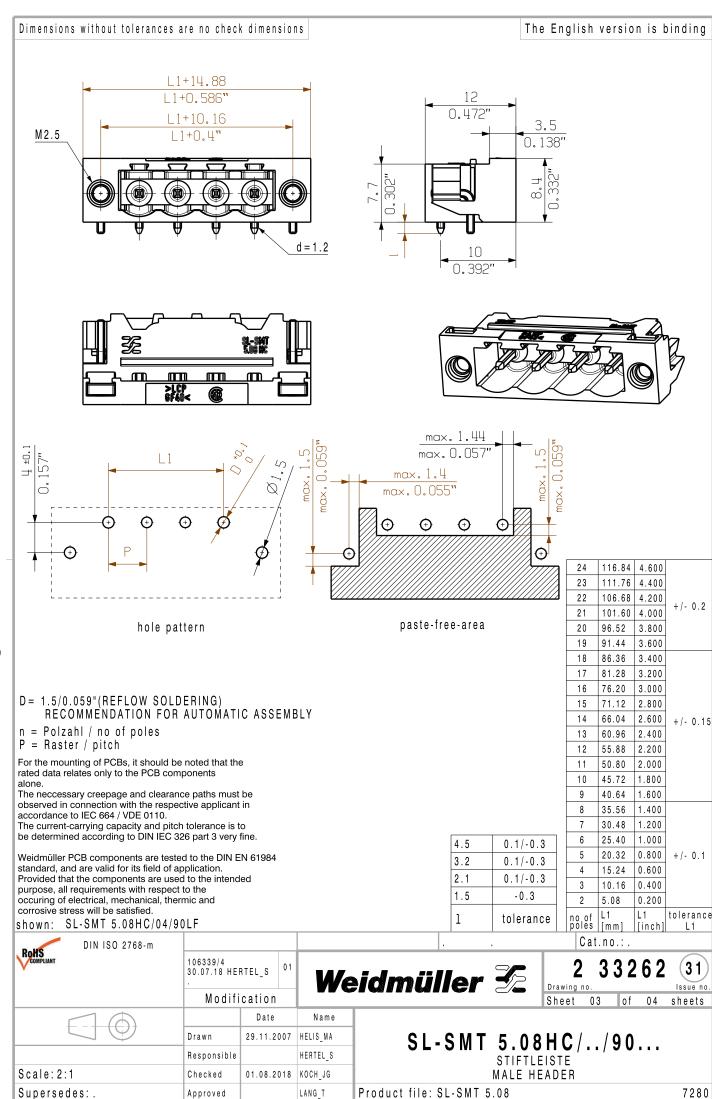
A system is not a system without small but useful details:

- 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 clipon connection or mounting for male and female connectors

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

General ordering data

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

Recommended wave solderding profiles

Weidmüller 🟵

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Double Wave:

Single 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.

Reflow Solder Profile

Recommended reflow soldering profile



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Time [sec]

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