

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

Pin headers in glass-fibre-reinforced plastic with straight wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Туре	SL 5.08HC/20/180F 3.2SN OR BX
Order No.	<u>1147720000</u>
Version	PCB plug-in connector, male header, Flange, THT solder connection, 5.08 mm, Number of poles: 20, 180°, Solder pin length (I): 3.2 mm, tinned, orange, Box
GTIN (EAN)	4032248931385
Qty.	12 pc(s).
Product data	IEC: 400 V / 24 A UL: 300 V / 18.5 A
Packaging	Box

Technical data

Weidmüller 🔀

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Dimensions and weights	

Width	111.6 mm	Width (inches)	4.394 inch
Height	15.2 mm	Height (inches)	0.598 inch
Height of lowest version	12 mm	Depth	8.5 mm
Depth (inches)	0.335 inch	Net weight	8.95 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5	.08		
Type of connection	Board connection			
Mounting onto the PCB	THT solder connection			
Pitch in mm (P)	5.08 mm			
Pitch in inches (P)	0.2 inch			
Outgoing elbow	180°			
Number of poles	20			
Number of solder pins per pole	1			
Solder pin length (I)	3.2 mm			
Solder pin length tolerance	+0.1 / -0.3 mm			
Tolerance of solder pin position	± 0.20 mm			
Solder pin dimensions	d = 1.2 mm, Octagonal			
Solder pin dimensions = d tolerance	0 / -0,03 mm			
Solder eyelet hole diameter (D)	1.3 mm			
Solder eyelet hole diameter tolerance (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.	10 N			
Pulling force/pole, max.	7.5 N			
Tightening torque	Torque type	PCB, Screw flange		
	Usage information	Tightening torque	min.	0.1 Nm
	-		max.	0.15 Nm
		Recommended screw	Part	PTSC KA
			number	2.2X4.5
				<u>WN1412</u>

Material data

PA GF	Colour	orange
RAL 2000	Insulating material group	II
≥ 550	Insulation strength	≥ 10 ⁸ Ω
V-0	GWFI	960 °C
CuMg	Contact surface	tinned
1-3 μm Ni / 2-4 μm Sn matt	Layer structure of plug contact	1-3 µm Ni / 2-4 µm Sn matt
-25 °C	Storage temperature, max.	50 °C
70 %	Operating temperature, min.	-50 °C
100 °C	Temperature range, installation, min.	-25 °C
100 °C		
	RAL 2000 ≥ 550 V-0 CuMg 1-3 μm Ni / 2-4 μm Sn matt -25 °C 70 % 100 °C	RAL 2000 Insulating material group ≥ 550 Insulation strength V-0 GWFI CuMg Contact surface 1-3 μm Ni / 2-4 μm Sn matt Layer structure of plug contact -25 °C Storage temperature, max. 70 % Operating temperature, min. 100 °C Temperature range, installation, min.

Technical data

Rated data acc. to IEC



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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	24 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	21 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		
Rated data acc. to CSA			
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
Rated data acc. to UL 1059			
la stitute (st ID.s.)		Cartificate No. (all Duc)	
Institute (cURus)	c R us	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	
Rated current (Use group B / UL 1059)	18.5 A	Rated current (Use group D / UL 1059)	
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Вох	VPE length	35 mm
VPE width	120 mm	VPE height	165 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0 eClass 10.0	27-44-04-02 27-44-04-02	eClass 9.1	27-44-04-02
Notes			
Notes	Additional colours on request		
	Gold-plated contact surfaces or	n request	
	Rated current related to rated c	cross-section & min. No. of poles.	
	• P on drawing = pitch		
		nponent itself. Clearance and creepage distanc h the relevant application standards.	ces to other components are to
IPC conformity	standards and norms and comply	eloped, manufactured and delivered according with the assured properties in the data sheet r ass 2". Further claims on the products can be e	resp. fulfill decorative properties

Creation date May 2, 2020 2:39:29 AM CEST

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

Technical data

Approvals

Approvals

Engineering Data



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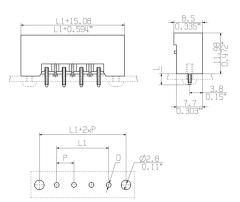
Approvals	
ROHS	Conform
Downloads	
Approval/Certificate/Document of	CB Certificate
Conformity	<u>CB Testreport</u>
	Declaration of the Manufacturer
Brochure/Catalogue	<u>FL DRIVES EN</u>
	MB DEVICE MANUF. EN
	<u>FL DRIVES DE</u>
	CAT 2 PORTFOLIOGUIDE EN
	<u>FL BUILDING SAFETY EN</u>
	<u>FL APPL LED LIGHTING EN</u>
	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

<u>STEP</u>

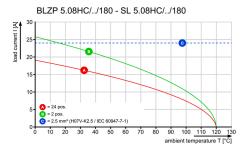
Drawings

Dimensional drawing



HOLE PATTERN

Graph





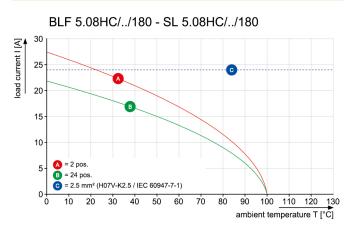
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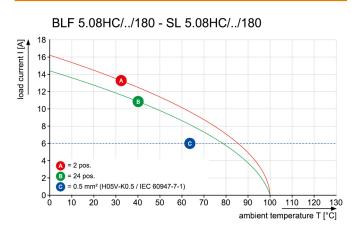
Product benefits



Graph Safe power transmission Proven properties



Graph



Mating connector (fully pluggable)

BLT 5.08HC/180F





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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 1	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 O 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

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

BLF 5.08HC/20/90LR SN O ... Туре Version Product data 1002460000 Order No. PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20, IEC: 400 V / 24 A / 0.2 - 2.5 mm² 4032248694624 GTIN (EAN) 90°, 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 BLF 5.08HC/20/90LR SN B ... Туре Version Product data Order No. 1000590001 PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20, IEC: 400 V / 24 A / 0.2 - 2.5 mm² GTIN (EAN) 4032248690558 90°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AWG 12 pc(s). Box 12

General ordering data

Qty.

Creation date May 2, 2020 2:39:29 AM CEST

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

Packaging

Packaging

Box

Box

Mating connector (fully pluggable)

BLT 5.08HC/180LR





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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 mm², Box	UL: 300 V / 17 A / AWG 26 - AWG 1	4
Qty.	12 pc(s).			
Туре	BLT 5.08HC/20/180LR SN	Version	Product data	Packaging
Туре 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/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

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°, 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/20/90F 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

Mating connector (fully pluggable)

BLF 5.08HC/180LR 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/20/180LR SN	Version	Product data	Packaging
Order No.	<u>1014320000</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)	4032248723034	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	
Туре	BLF 5.08HC/20/180LR SN	Version	Product data	Packaging
Type Order No.	BLF 5.08HC/20/180LR SN 1014570000	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

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>			Packaging Box
	-, , -		IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box

Mating connector (fully pluggable)

BLF 5.08HC/270LR SN

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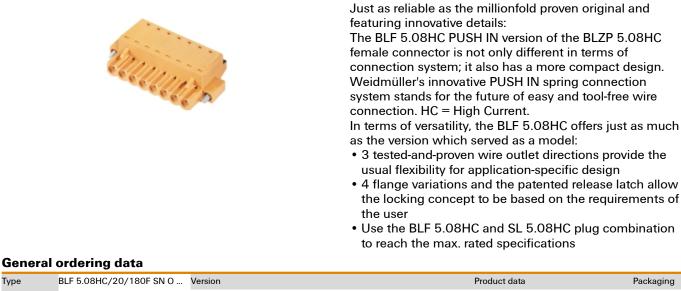
In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 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/20/270LR 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 mm², UL: 300 V / 18.5 A / AWG 26		
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	

BLF 5.08HC/180F SN



Туре	BLF 5.08HC/20/180F SN O	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 mm²,	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	12 pc(s).	Box	12	

Mating connector (fully pluggable)

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Туре	BLF 5.08HC/20/180F SN B	Version	Product data	Packaging
Order No.	<u>1013020000</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)	4032248720781	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).	Вох	12	

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>1947710000</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)	4032248624102	$270^\circ\!,$ 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/20/270LR SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/270LR SN 1947940000	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

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
Order No.	<u>1087430000</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)	4032248854394	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).			

Mating connector (fully pluggable)

BLZP 5.08HC/270F SN



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

General ordering data

Туре	BLZP 5.08HC/20/270F SN	Version	Product data	Packaging
Order No.	<u>1950490000</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)	4032248628612	270°, 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/20/270F SN	Version	Product data	Packaging
Type Order No.	BLZP 5.08HC/20/270F SN 1950770000	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

BLL 5.08/90FI



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		



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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)	N) 4032248618859 180°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box UL: 300 V		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/270F 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

BLF 5.08HC/20/270F SN O ... Туре Version Product data Packaging 1983070000 Order No. PCB plug-in connector, female plug, 5.08 mm, Number of poles: 20, IEC: 400 V / 24 A / 0.2 - 2.5 mm² Box 4032248687169 GTIN (EAN) 270°, 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 BLF 5.08HC/20/270F SN B ... Tvpe Version Product data Packaging Order No. 1982300000 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) 4032248686391 270°, 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

General ordering data

Creation date May 2, 2020 2:39:29 AM CEST



Weidmüller Interface GmbH & Co. KG

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Mating connector (fully pluggable)

BLF 5.08HC/90F SN





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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

	-			
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°, PUSH IN, Spring connection, Clamping range, max. : 3.31 mm², UL: 300 V / 18.5 A / AWG 26 - AV		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



L1+15.08 ±0.1 L1+0.594" ±0.004"

L1

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L1+10.16 L1+0.4" L1

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99587/5 22.11.17 HELIS_MA

Drawn Responsible

Checked

Approved

Modification

Date

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L1+0.4^{**}

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332" 8.43

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15

14

13

12

11

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116,84

111,76

106,68

101,60

96.52

91,44

86,36

81,28

76,20

71,12

66.04

60,96

55.88

50,80

45.72

40.64

35.56

4.600

4,400

4,200

4,000

3.800

3,600

3,400

3,200

3.000

2,800

2,600

2,400

2,200

2.000

1,800

1.600

1.400

12 0.472"

а. Э 0.15"

*0.1 5 0

8

PCB-Ø 1,4 TILL POLE 8

PCB-Ø 1,5 FROM POLE 9



Ð Ρ HOLE PATTERN For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the

M2.5

connection elements. The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to IEC 60326 part 3 very fine.

Weidmueller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

P = P | T C H

RoHS

Scale:2:1

Supersedes: .

SHOWN: SL 5.08HC/04/180F

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General tolerance: DIN ISO 2768-mK

			7	30,48	1,200
	STIFTLAENGE L	TOLERANZ	6	25,40	1,000
	PIN LENGTH L	TOLERANCE	5	20,32	0,800
			4	15,24	0,600
	3,2	-0.3	3	10,16	0,400
		0,0	2	5,08	0,200
	4,5	-0,3	n	L1 [mm]	L1 [Inch]



υu				
3	5	09	53	04
, no.				lssue no.
0	4	of	05	sheets

Da	ale	Name		
18.0	2.2011	HERTEL_S	SL 5.08HC//180	
		HERTEL_S	STIFTLEISTE	
30.1	1.2017	HELIS_MA	MALE HEADER	
		LANG_T	Product file: SL5.08 HC	7377

Weidmueller Interface GmbH & Co. KG (\mathbf{o})

Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

Weidmüller Interface GmbH & Co. KG

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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.