

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com























Similar to illustration

High-temperature-resistant, 90° angled, open male 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.

Туре	SL-SMT 5.08HC/07/90 3.2SN BK BX
Order No.	<u>1780000000</u>
Version	PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, No. of poles: 7, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
GTIN (EAN)	4032248165322
Qty.	50 pc(s).
Product data	IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Packaging	Вох



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Technical data

Dimensions and weights

Width	35.56 mm	Width (inches)	1.4 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	2.54 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder	Pitch in mm (P)	Board connection
ŭ	connection	, ,	5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
No. of poles	7	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	± 0.1 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerand	ce (D)+ 0,1 mm
L1 in mm	30.48 mm	L1 in inches	1.2 inch
Number of rows	1	Pin series quantity	1
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 code	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
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.	55 ℃
Max. relative humidity during storage	80 %	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. no. of poles (Tu=20°C)	27.5 A
Rated current, max. no. of poles (Tu=20°C)	19 A	Rated current, min. no. of poles (Tu=40°C)	24 A
Rated current, max. no. 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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35 mm

160 mm

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Technical data

Rated data acc. to CSA

nstitute (CSA)	€P ·	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)	<i>712</i>	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.		
Packaging			

Packaging

VPE width

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

VPE length

VPE height

ONOI OC	30 21 10 10	CCIGSS S. I	27 20 07 04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		
Notes			
Notes	Additional colours on r	equest	
	Gold-plated contact su	rfaces on request	
	Rated current related to	o rated cross-section & min. No. of pole	s.
	Diameter of solder eye	let D = 1.4+0.1mm	
	Solder eyelet diameter	D = 1.5 + 0.1 mm, from 9 poles	
	• P on drawing = pitch		
	•	o the component itself. Clearance and c ance with the relevant application stand	creepage distances to other components are to dards.
IPC conformity	standards and norms and	• •	vered according international recognized the data sheet resp. fulfill decorative properties roducts can be evaluated on request.

Box

115 mm



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Technical data

Approvals

Approvals



ROHS Conform

Downloads

Downloads	
Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	MB SMT EN
	<u>FL DRIVES DE</u>
	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
	<u>FL APPL_INVERTER EN</u>
	FL BASE STATION EN
	FL ELEVATOR EN
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	<u>STEP</u>
SMT white paper	<u>Download Whitepaper</u>



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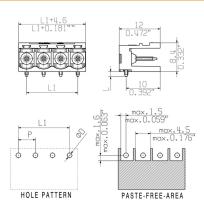
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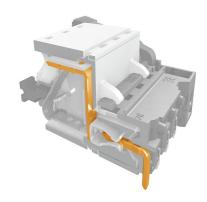
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Drawings

Dimensional drawing

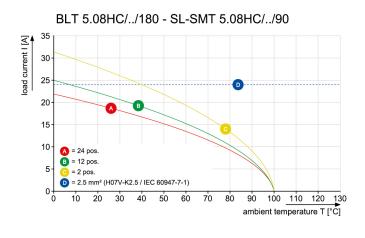


Product benefits



Safe power transmission **Product benefits** Proven properties

Graph







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Mating connector (fully pluggable)

BLZP 5.08HC/180 SN



Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. 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	Order No.	Version GTIN (EAN)) Qty.	Product data	Packa
BLZP	<u>1943860000</u>	PCB plug-in connector, 40322486	1790648 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/0	7/180	female plug, 5.08 mm, No.		UL: 300 V / 20 A / AWG 26 - AWG	G 12
SN BK BX		of poles: 7, 180°, Screw			
		connection, Clamping			
		range, max. : 4 mm², Box			
BLZP	<u>1943630000</u>	PCB plug-in connector, 40322486	61763048 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/0	7/180	female plug, 5.08 mm, No.		UL: 300 V / 20 A / AWG 26 - AWG	G 12
SN OR BX		of poles: 7, 180°, Screw			
		connection, Clamping			
		range, max. : 4 mm², Box			

BLZP 5.08HC/225B SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. The also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

Delivery status Available until		Туре	Type Order No. V		GTIN (EAN)	Qty.
Discontinued	2016-04-08T00:00:00+02:00	BLZP 5.08HC/07/225	BLZP 5.08HC/07/225B SN1946030000		4032248621569	48
		BK BX		connector, fem	nale	pc(s).
				plug, 5.08 mm	ı,	
				No. of poles:		
				7, 225°, Screw	1	
				connection,		
				Clamping rang	e,	
				max.: 4 mm²,	Вох	
BLZP	<u>1945800000</u>	PCB plug-in connector,	40322486212	7948 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm ²	Вох
5.08HC/07/2	225B	female plug, 5.08 mm,	female plug, 5.08 mm, No.		UL: 300 V / 15 A / AWG 26 - AW	
SN OR BX		of poles: 7, 225°, Screw				
		connection, Clamping				
		range, max. : 4 mm², B	ΟX			



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Mating connector (fully pluggable)

BLZP 5.08HC/270 SN



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

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packa
BLZP	<u>1948840000</u>	PCB plug-in connector,	403224862629	9848 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/07/	270	female plug, 5.08 mm, No	•		UL: 300 V / 20 A / AWG 26 - AWG	12
SN OR BX		of poles: 7, 270°, Screw				
		connection, Clamping				
		range, max. : 4 mm², Box				
BLZP	<u>1949070000</u>	PCB plug-in connector,	403224862652	2648 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/07/	270	female plug, 5.08 mm, No	-		UL: 300 V / 20 A / AWG 26 - AWG	12
SN BK BX		of poles: 7, 270°, Screw				
		connection, Clamping				
		range, max. : 4 mm², Box				

BLDT 5.08B



Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packa
BLDT	<u>1651790000</u>	PCB plug-in connector,	400819040047	7 40 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Box
5.08/07/-B		female plug, 5.08 mm, No.	•		UL: 300 V / 10 A / AWG 26 - AWG	12
SN OR BX		of poles: 7, 180°, Screw				
		connection, Clamping				
		range, max. : 3.31 mm²,				
		Box				
Discontinued 2	2016-09-01T00:00:00+02:00	BLDT 5.08/07/-B SN BK	1673830000	PCB plug-in	4008190435561	40
		BX		connector, fema	ale	pc(s).
				plug, 5.08 mm,		
				No. of poles:		
				7, 180°, Screw		
				connection,		
				Clamping range	θ,	



Mating connector (fully pluggable)

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max.: 3.31 mm²,

Box

BLC 5.08BR



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packa
BLC	1649420000	PCB plug-in connector,	400819029453	3350 pc(s).	IEC: 400 V / 21 A	Box
5.08/07/18	OBR	female plug, 5.08 mm, No			UL: 300 V / 10 A / AWG 26 -	AWG 14
OR BX		of poles: 7, 180°, Crimp				
		connection, Clamping				
		range, max. : 2.5 mm², Box	ĸ			
Discontinued	2014-05-20T00:00:00+02:00	BLC 5.08/07/180BR BK	1712160000	PCB plug-in	4008190935177	50
		BX		connector, femal	e	pc(s).
				plug, 5.08 mm,		
				No. of poles:		
				7, 180°, Crimp		
				connection,		
				Clamping range,		
				max. : 2.5 mm ² ,		
				Box		

BLC 5.08R



Female plugs with crimp wire connection system. The female plugs provide space for labelling and can be coded.

General ordering data

5.08/07/180R BK BX	<u>1712010000</u>	PCB plug-in	4008190935023	50
		connector, female		pc(s).
		plug, 5.08 mm,		
		No. of poles:		
		7, 180°, Crimp		
		connection,		
		Clamping range,		
			plug, 5.08 mm, No. of poles: 7, 180°, Crimp connection,	plug, 5.08 mm, No. of poles: 7, 180°, Crimp connection,

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Mating connector (fully pluggable)

max. : 2.5 mm², Box

 BLC
 1610540000
 PCB plug-in connector,
 400819015639850 pc(s).
 IEC: 400 V / 21 A
 Both

 5.08/07/180R
 female plug, 5.08 mm, No.
 UL: 300 V / 10 A / AWG 26 - AWG 14

 OR BX
 of poles: 7, 180°, Crimp

connection, Clamping range, max. : 2.5 mm², Box

BLDF 5.08/180 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

Туре	Order No.	Version	GTIN (EAN) Q	ty. Pr	oduct data	Packa
BLDF	<u>1001200000</u>	PCB plug-in connector,	40322488175353	2 pc(s).	C: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Box
5.08/07/1	180	female plug, 5.08 mm, No.		UL	L: 300 V / 18.5 A / AWG 12 - AWG	
SN OR BX		of poles: 7, 180°, PUSH IN,		26	6	
		Tension-clamp connection,				
		Clamping range, max. :				
		3.31 mm², Box				
BLDF	<u>1000910000</u>	PCB plug-in connector,	40322488174503	2 pc(s).	C: 400 V / 20.8 A / 0.2 - 2.5 mm ²	Box
5.08/07/1	180	female plug, 5.08 mm, No.		UL	L: 300 V / 18.5 A / AWG 12 - AWG	
SN BK BX		of poles: 7, 180°, PUSH IN,		26	6	
		Tension-clamp connection,				
		Clamping range, max. :				
		3.31 mm², Box				

BLL 5.08/180B



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

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL	1682780000	PCB plug-in connector,	400819047454	16 48 pc(s).	IEC: 400 V / 23 A	Вох
5.08/07/1	180B	female header, Dovetails f	or		UL: 300 V / 15 A	
3.2SN OR	BX	fixing blocks, THT solder				
		connection, 5.08 mm, No				



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Mating connector (fully pluggable)

of poles: 7, 180°, Solder pin length (I): 3.2 mm, tinned, orange, Box

BLZP 5.08HC/225 SN



Clamping-yoke connection with right-angled (90° or 270°) or angled (225°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. 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

Conoral ordonning data					
Delivery status Available until	Туре	Order No.	Version	GTIN (EAN)	Qty
Discontinued 2016-04-08T00:00:00+02:00	BLZP 5.08HC/07/225 SN	1 <u>1946610000</u>	PCB plug-in	4032248622382	48
	BK BX		connector, fem	ale	pc(s
			plug, 5.08 mm	l,	
			No. of poles:		
			7, 225°, Screw	,	
			connection,		
			Clamping rang	e,	
			max. : 4 mm²,	Вох	
BLZP <u>1946300000</u>	PCB plug-in connector,	40322486218	7348 pc(s).	IEC: 400 V / 17.5 A / 0.2 - 4 mm	² Box
5.08HC/07/225	female plug, 5.08 mm, No.	female plug, 5.08 mm, No.		UL: 300 V / 15 A / AWG 26 - AWG 12	
SN OR BX	of poles: 7, 225°, Screw				
	connection, Clamping				
	range, max. : 4 mm², Box				

BLDT 5.08



Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLDT	<u>1644780000</u>	PCB plug-in connector,	40081902839	95 40 pc(s).	IEC: 400 V / 14 A / 0.2 - 2.5 mm ²	Вох
5.08/07/-	SN	female plug, 5.08 mm, N	lo.		UL: 300 V / 10 A / AWG 26 - AWG	12
OR BX		of poles: 7, 180°, Screw				
		connection, Clamping				
		range, max. : 3.31 mm²,				
		Box				



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Mating connector (fully pluggable)

Discontinued	2016-09-01T00:00:00+02:00	BLDT 5.08/07/- SN BK BX 1660760000	PCB plug-in	4008190417215	40
			connector, fem	ale	pc(s).
			plug, 5.08 mm	,	
			No. of poles:		
			7, 180°, Screw		
			connection,		
			Clamping range	э,	
			max. : 3.31 mn	1 ² ,	
			Box		

BLF 5.08HC/180 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

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

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

Туре	Order No.	Version GTIN (EAN) Qty.	Product data Packagi
BLF	1013480000	PCB plug-in connector, 403224872163448 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² Box
5.08HC/0	07/180	female plug, 5.08 mm, No.	UL: 300 V / 18.5 A / AWG 26 - AWG
SN BK BX		of poles: 7, 180°, PUSH IN,	12
		Tension-clamp connection,	
		Clamping range, max. :	
		3.31 mm², Box	
BLF	<u>1013740000</u>	PCB plug-in connector, 403224872185648 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ² Box
5.08HC/0	07/180	female plug, 5.08 mm, No.	UL: 300 V / 18.5 A / AWG 26 - AWG
SN OR BX	(of poles: 7, 180°, PUSH IN,	12
		Tension-clamp connection,	
		Clamping range, max. :	
		3.31 mm², Box	



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Mating connector (fully pluggable)

BLL 5.08/180



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

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packagi
BLL	<u>1630760000</u>	PCB plug-in connector,	400819020418	1 48 pc(s).	IEC: 400 V / 23 A	Box
5.08/07/	180	female header, closed side	,		UL: 300 V / 15 A	
3.2 SN OF	R BX	THT solder connection,				
		5.08 mm, No. of poles: 7,				
		180°, Solder pin length (I):				
		3.2 mm, tinned, orange,				
		Box				
iscontinued	ued 2007-04-01T00:00:00+02:00	BLL 5.08/07/180 4.5SN	1646300000	PCB plug-in	4008190285647	50
		BK BX		connector, fema	ıle	pc(s).
				header, closed		
				side, THT solder	•	
				connection, 5.0	8	
				mm, No. of pole	s:	
				7, 180°, Solder		
				pin length (I): 4.	5	
				mm, tinned, bla	ck,	
				Box		

BLZP 5.08HC/90 SN



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

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZP	<u>1948050000</u>	PCB plug-in connector,	40322486242	7048 pc(s).	IEC: 400 V / 23 A / 0.2 - 4 mm ²	Box
5.08HC/07	/90	female plug, 5.08 mm,			UL: 300 V / 20 A / AWG 26 - AWG	12
SN OR BX		No. of poles: 7, 90°, Screv	W			
		connection, Clamping				

range, max.: 4 mm², Box



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Mating connector (fully pluggable)

BLZP <u>1948290000</u> 5.08HC/07/90 SN BK BX PCB plug-in connector, female plug, 5.08 mm, No. of poles: 7, 90°, Screw connection, Clamping

range, max.: 4 mm2, Box

403224862481248 pc(s).

IEC: 400 V / 23 A / 0.2 - 4 mm² Box UL: 300 V / 20 A / AWG 26 - AWG 12

BLF 5.08HC/270 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

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

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packagi
BLF	<u>1982750000</u>	PCB plug-in connector,	403224868684	1 48 pc(s).	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
5.08HC/07	7/270	female plug, 5.08 mm, No.			UL: 300 V / 18.5 A / AWG 26 - AWG	
SN OR BX		of poles: 7, 270°, PUSH IN,			12	
		Tension-clamp connection,				
		Clamping range, max.:				
		3.31 mm², Box				
Discontinue	ed 2016-04-08T00:00:00+02:00	BLF 5.08HC/07/270 SN	1981980000	PCB plug-in	4032248684670	48
		BK BX		connector, female	•	pc(s).
				plug, 5.08 mm,		
				No. of poles: 7,		
				270°, PUSH IN,		
				Tension-clamp		
				connection,		
				Clamping range,		
				max.: 3.31 mm²,		
				Box		



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Mating connector (fully pluggable)

BLL 5.08/90



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

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLL	<u>1622990000</u>	PCB plug-in connector,	400819019404	848 pc(s).	IEC: 400 V / 23 A	Box
5.08/07/90)	female header, closed side	e,		UL: 300 V / 15 A	
3.2 SN OR B	X	THT solder connection,				
		5.08 mm, No. of poles: 7,				
		90°, Solder pin length (I):				
		3.2 mm, tinned, orange,				
		Box				

BLF 5.08HC/90 SN



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Delivery status Available until	Туре	Order No.	Version	GTIN (EAN)	Qty.
Discontinued 2016-04-08T00:00:00+02:00	BLF 5.08HC/07/90 SN BK	1000080001	PCB plug-in	4032248690015	48
	BX		connector, female		pc(s).
			plug, 5.08 mm,		
			No. of poles: 7,		
			90°, PUSH IN,		
			Tension-clamp		
			connection,		
			Clamping range,		
			$max.: 3.31 \ mm^2,$		
			Box		



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Mating connector (fully pluggable)

BLF <u>1001580000</u> 5.08HC/07/90 SN OR BX PCB plug-in connector, 403224869338248 pc(s). female plug, 5.08 mm, No. of poles: 7, 90°, PUSH IN, Tension-clamp connection, Clamping range, max. :

3.31 mm², Box

IEC: 400 V / 24 A / 0.2 - 2.5 mm² UL: 300 V / 18.5 A / AWG 26 - AWG

12



SL-SMT 5.08HC/07/90 3.2SN BK BX

Accessories

Weidmüller Interface GmbH & Co. KG

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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 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL AT SW	<u>1770240000</u>	PCB plug-in connector,	40322481177	'10 100 pc(s).		Вох
		Accessories, Spacer, bla	ack,			
		No. of poles: 1				
SL AT OR	<u>1598300000</u>	PCB plug-in connector,	40081901892	:66 100 pc(s).		Box
		Accessories, Spacer,				
		orange, No. of poles: 1				

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.

Туре	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ/SL KO C	DR <u>1573010000</u>	PCB plug-in connector,	400819004839	96 100 pc(s).		Box
BX		Accessories, Coding				
		element, orange, No. of				
		poles: 1				



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Accessories

 BLZ/SL KO BK 1545710000
 PCB plug-in connector, 400819008714250 pc(s).
 Box

 BX
 Accessories, Coding element, black, No. of poles:
 1

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

Delivery status Available until	Туре	Order No.	Version	GTIN (EAN)	Qty.		
Discontinued 2010-05-31T00:00:00+02:00	SL FLA 1.5/24	<u>1595850000</u>	PCB plug-in	4008190092573	10		
			connector,		pc(s)		
			Accessories,				
			Flood-light disp	olay,			
			Transparent, N	0.			
			of poles: 1				
SL FLA 9.0/1 <u>1580120000</u>	PCB plug-in connector,	400819003190	09 100 pc(s).		Box		
	Accessories, Flood-light						
	display, Transparent, No. of						
	poles: 1						
SL FLA 3.8/1 <u>1580110000</u>	PCB plug-in connector, 4008190050740100 pc(s).						
	Accessories, Flood-light						
	display, Transparent, No. of						
	poles: 1						
Discontinued 2010-05-31T00:00:00+02:00	SL FLA 3.8/24	1595860000	PCB plug-in	4008190140892	10		
			connector,		pc(s)		
			Accessories,				
			Flood-light disp	olay,			
			Transparent, N	0.			
			of poles: 1				



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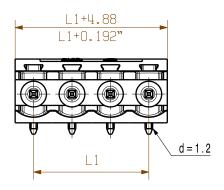
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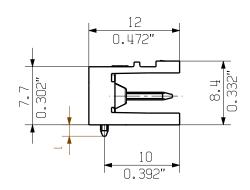
Germany

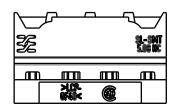
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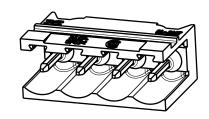
Accessories

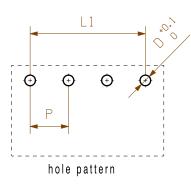
SL FLA 2,3/24 <u>1636680000</u>	PCB plug-in connector,	Box					
	Accessories, Flood-light	Accessories, Flood-light					
	display, Transparent, No.	display, Transparent, No. of					
	poles: 1						
Discontinued 2010-05-31T00:00:00+02:00	SL FLA 9.0/24	1595870000	PCB plug-in	4008190079796	10		
			connector,		pc(s).		
			Accessories,				
		Flood-light display,					
			Transparent, N	0.			
			of poles: 1				
SL FLA 2,3/1 <u>1636670000</u>	PCB plug-in connector,	40081904099	75 100 pc(s).		Box		
	Accessories, Flood-light						
	display, Transparent, No.	of					
	poles: 1						
SL FLA 1.5/1 <u>1580100000</u>	PCB plug-in connector,	40081901524	75 100 pc(s).		Box		
	Accessories, Flood-light						
	display, Transparent, No.	of					
	poles: 1						

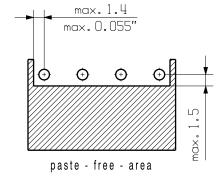












D = 1.4/0.055" or 1.5/0.059" (REFLOW SOLDERING) RECOMMENDATION FOR AUTOMATIC ASSEMBLY (1.4 mm FOR n = 2...8 / 1.5 mm for n = 9...24)

n = Polzahl / no of poles

P = Raster / pitch

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components

The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied

shown: SL-SMT 5.08HC/04/90

RoHS

DIN ISO 2768-m

4.5	0.1/-0.3
3.2	0.1/-0.3
2.1	0.1/-0.3
1.5	-0.3
1	tolerance

15		71.12	2.800	
14		66.04	2.600	+/- 0.15
1	3	60.96	2.400	
1.	2	55.88	2.200	
1	1	50.80	2.000	
1	0	45.72	1.800	
9		40.64	1.600	
8		35.56	1.400	
7	,	30.48	1.200	
6	3	25.40	1.000	
5	5	20.32	0.800	+/-0.1
4	ŀ	15.24	0.600	
3		10.16	0.400	
2		5.08	0.200	
no pol	of es	L1 [mm]	L1 [inch]	tolerance L1
(at	.no.:.		

33262

31

Issue no

sheets

2

Drawing no.

Sheet 01

24

23

22

21

20

19

18

17

16

116.84

111.76

106.68

101.60

96.52

91.44

86.36

81.28

76.20

4.600

4.400

4.200

4.000

3.800

3.600

3.400 3.200

3.000

+/-0.2

COMPLIANT	106339/4 30.07.18 HE	RTEL_S	00	We	eidmüller 🏂
	Modifi	cation			
		Date		Name	
	Drawn	29.11.20	07	HELIS_MA	SL-SMT 5.0
	Responsible			HERTEL_S	STIFT
Scale: 2:1	Checked	01.08.20	18	KOCH_JG	MALE
Supersedes: .	Approved			LANG_T	Product file: SL-SMT 5.08

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

STIFTLEISTE MALE HEADER

Product file: SL-SMT 5.08 7280



Recommended wave solderding profiles

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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.

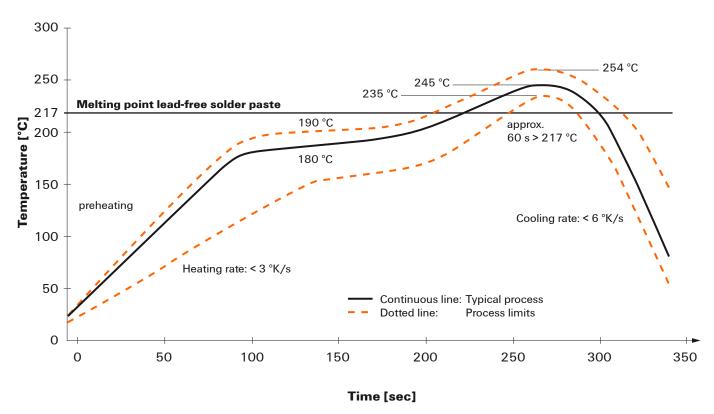


Recommended reflow soldering profile

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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.