

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image



















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

General ordering data

Version	PCB plug-in connector, female header, Inverted flange, THT solder connection, 5.08 mm, Number of poles: 10, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1843830000</u>
Туре	BLL 5.08/10/90FI 3.2SN OR BX
GTIN (EAN)	4032248355587
Qty.	30 items
Product data	IEC: 400 V / 23 A UL: 300 V / 15 A
Packaging	Вох





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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Net weight 12 g

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	Ob9f9fbb-9843-4953-ae55-e10a8ae27fe7

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)	0.200 "	Outgoing elbow	90°
Number of poles	10	Number of solder pins per pole	2
Solder pin length (I)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.4 x 1.00 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm	L1 in mm	45.72 mm
L1 in inches	1.800 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Protection degree	IP20
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging cycles	25	Plugging force/pole, max.	5 N
Pulling force/pole, max.	5 N		

Material data

Insulating material	PBT GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	Insulation resistance	108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	46 µm Sn hot-dip tinned	Layer structure of plug contact	46 µm Sn hot-dip tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °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)	23 A
Rated current, max. number of poles (Tu=20°C)	16 A	Rated current, min. number of poles (Tu=40°C)	20 A

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Technical data

Rated current, max. number of poles 14 A (Tu=40°C)	Rated voltage for surge voltage class / 400 V pollution degree II/2
Rated voltage for surge voltage class / 320 V pollution degree III/2	Rated voltage for surge voltage class / 250 V pollution degree III/3
Rated impulse voltage for surge voltage 4 V class/ pollution degree II/2	Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 4 kV class/ contamination degree III/3	Short-time withstand current resistance 3 x 1s with 120 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)	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)	15 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details -		

Packing

Packaging	Box	VPE length	348.00 mm
VPE width	137.00 mm	VPE height	30.00 mm

Important note

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.
Notes	 Additional variants on request 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.

 The condense with IFC 61084 ONANIMATE components are considered.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- \bullet Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

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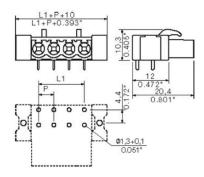
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Drawings

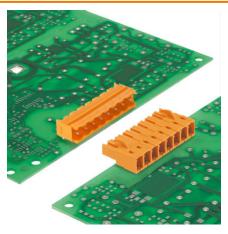
Product image



Dimensional drawing



Example of use







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Accessories

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

BLZ/SL KO BK BX	Version
<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
4008190087142	of poles: 1
50 ST	
DI 7 (CL KO OD DV	v ·
BLZ/SL KO OR BX	Version
1573010000	PCB plug-in connector, Accessories, Coding element, orange, Number
, ·	
	1545710000 4008190087142 50 ST





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Counterpart

SL 5.08HC/180F



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/10/180F 3.2SN	Version
Order No.	1148720000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248931309	5.08 mm, Number of poles: 10, 180°, Solder pin length (I): 3.2 mm,
Qty.	30 ST	tinned, black, Box
Туре	SL 5.08HC/10/180F 3.2SN	Version
Type Order No.	SL 5.08HC/10/180F 3.2SN 1147380000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

SL 5.08HC/180LF



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/10/180LF 3.2S	Version
Order No.	1149490000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248932696	connection, 5.08 mm, Number of poles: 10, 180°, Solder pin length
Qty.	30 ST	(I): 3.2 mm, tinned, black, Box
Туре	SL 5.08HC/10/180LF 3.2S	Version
Type Order No.	SL 5.08HC/10/180LF 3.2S 1148150000	Version PCB plug-in connector, male header, Solder flange, THT solder



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Counterpart

SL 5.08HC/90F



Pin headers made from glass-fibre-reinforced plastic with 90° 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/10/90F 3.2SN	Version
Order No.	1150180000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248936328	5.08 mm, Number of poles: 10, 90°, Solder pin length (I): 3.2 mm,
Qty.	30 ST	tinned, black, Box
Туре	SL 5.08HC/10/90F 3.2SN	Version
Type Order No.	SL 5.08HC/10/90F 3.2SN 1148880000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

SL 5.08HC/90LF



Pin headers made from glass-fibre-reinforced plastic with 90° 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/10/90LF 3.2SN	Version
Order No.	<u>1150430000</u>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248937042	connection, 5.08 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	30 ST	3.2 mm, tinned, black, Box
Туре	SL 5.08HC/10/90LF 3.2SN	Version
Type Order No.	SL 5.08HC/10/90LF 3.2SN 1149640000	Version PCB plug-in connector, male header, Solder flange, THT solder

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Counterpart

SL-SMT 5.08/180F Box



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/10/180F 3	Version	
Order No.	<u>1820780000</u>	PCB plug-in connector, male header, Flange, THT/THR solder	
GTIN (EAN)	4032248317646	connection, 5.08 mm, Number of poles: 10, 180°, Solder pin length	
Qty.	30 ST	(I): 3.2 mm, tinned, black, Box	

SL-SMT 5.08/180LF Box



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/10/180LF	Version
Order No.	<u>1776442001</u>	PCB plug-in connector, male header, Solder flange, THT/THR solder
GTIN (EAN)	4032248159321	connection, 5.08 mm, Number of poles: 10, 180°, Solder pin length
Qty.	30 ST	(I): 1.5 mm, tinned, black, Box
Туре	SL-SMT 5.08HC/10/180LF	Version
Type Order No.	SL-SMT 5.08HC/10/180LF 1838520000	Version PCB plug-in connector, male header, Solder flange, THT/THR solder
• •		

SL-SMT 5.08HC/90F Box



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.





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Counterpart

General ordering data

Туре	SL-SMT 5.08HC/10/90F 3	Version
Order No.	<u>1837710000</u>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248347520	connection, 5.08 mm, Number of poles: 10, 90°, Solder pin length (I):
Qty.	30 ST	3.2 mm, tinned, black, Box

SL-SMT 5.08HC/90LF Box



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

SLDV-THR 5.08/180F



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Туре	SLDV-THR 5.08/20/180F 1	Version
Order No.	<u>1828970000</u>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4032248335664	connection, 5.08 mm, Number of poles: 20, 180°, Solder pin length
Qty.	16 ST	(I): 1.5 mm, tinned, black, Box
Туре	SLDV-THR 5.08/20/180F 3	Version
Type Order No.	SLDV-THR 5.08/20/180F 3 1828850000	Version PCB plug-in connector, male header, Flange, THT/THR solder
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Counterpart

SLDV-THR 5.08/180FLF



High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Type SLDV-THR 5.08/20/180FLF... Version

Order No. 1829090000 PCB plug-in connector, male header, Flange / Solder flange, THT/THR

GTIN (EAN) 4032248335787 solder connection, 5.08 mm, Number of poles: 20, 180°, Solder pin

Oty. 16 ST length (I): 3.2 mm, tinned, black, Box

SLF 5.08/180F SN



Male plug with PUSH IN wire connection and straight outlet direction, when used with BLF 5.08HC as wire-to-wire application for panel feed-through The male plugs provide space for labelling and can be coded.

General ordering data

Type	SLF 5.08/10/180F SN BK	Version
Order No.	<u>1336250000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
GTIN (EAN)	4050118140064	180°, PUSH IN with actuator, Clamping range, max.: 3.31 mm², Box
Qty.	30 ST	
Туре	SLF 5.08/10/180F SN OR	Version
Type Order No.	SLF 5.08/10/180F SN OR 1335760000	Version PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
	, ,	

SLF 5.08/180FI SN



Male plug with PUSH IN wire connection and straight outlet direction, when used with BLF 5.08HC as wire-to-wire application for panel feed-through The male plugs provide space for labelling and can be coded.

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Counterpart

General ordering data

Type	SLF 5.08/10/180FI SN BK	Version
Order No.	<u>1336130000</u>	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
GTIN (EAN)	4050118140040	180°, PUSH IN with actuator, Clamping range, max.: 3.31 mm², Box
Qty.	30 ST	
Туре	SLF 5.08/10/180FI SN OR	Version
Type Order No.	SLF 5.08/10/180FI SN OR 1336490000	Version PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
	, ,	

SLS 5.08/180F



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

General ordering data

Туре	SLS 5.08/10/180F SN OR	Version
Order No.	1846440000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
GTIN (EAN)	4032248362745	180°, Clamping yoke connection, Clamping range, max.: 3.31 mm²,
Qty.	30 ST	Вох

SLS 5.08/180FI



Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

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General ordering data

Catalogue status / Drawings

Type	SLS 5.08/10/180FI SN OR	Version
Order No.	1846290000	PCB plug-in connector, male plug, 5.08 mm, Number of poles: 10,
GTIN (EAN)	4032248362578	180°, Clamping yoke connection, Clamping range, max.: 3.31 mm²,
Qty.	30 ST	Box

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