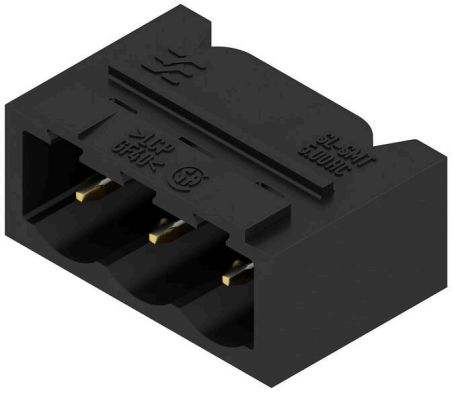
Data sheet

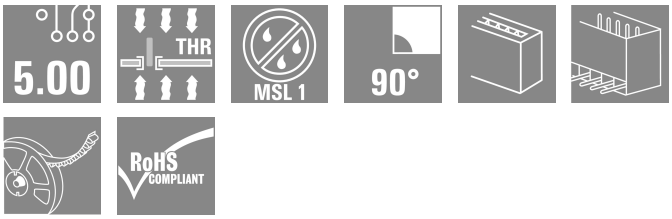
SL-SMT 5.00HC/03/90G 3.2AU BK RL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image





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

Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°, Solder pin length (l): 3.2 mm, Gold-plated, black, Tape
Order No.	1067740000
Type	SL-SMT 5.00HC/03/90G 3.2AU BK RL
GTIN (EAN)	4032248821730
Qty.	350 items
Product data	IEC: 400 V / 27.5 A UL: / 18.5 A
Packaging	Tape

Data sheet

SL-SMT 5.00HC/03/90G 3.2AU BK RL

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	12 mm	Depth (inches)	0.4724 inch
Height	11.7 mm	Height (inches)	0.4606 inch
Height of lowest version	8.5 mm	Width	18.2 mm
Width (inches)	0.7165 inch	Net weight	2.63 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,020 kg CO2 eq.

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.00	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	5.00 mm
Pitch in inches (P)	0.197 "	Outgoing elbow	90°
Number of poles	3	Solder pin length (l)	3.2 mm
Solder pin length tolerance	+0.1 / -0.2 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,03 mm	L1 in mm	10.00 mm
L1 in inches	0.394 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged	Protection degree	IP20
Volume resistance	≤5 mΩ	Plugging force/pole, max.	7 N
Pulling force/pole, max.	5.5 N		

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	Gold-plated	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 / 1.7...2.3 µm Au	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

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Technical data

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	27.5 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	16.5 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4000 V
Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV		

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1176845
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	15 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 current (Use group B / UL 1059)	18.5 A	Reference to approval values	Specifications are maximum values, details - see approval certificate.

Packing

ESD Level packaging	static dissipative	Packaging	Tape
VPE length	342.00 mm	VPE width	339.00 mm
VPE height	50.00 mm	Tape depth (T2)	12.80 mm
Tape width (W)	32 mm	Tape pocket depth (K0)	12.30 mm
Tape pocket height (A0)	12.30 mm	Tape pocket width (B0)	18.74 mm
Tape pocket separation (P1)	16.00 mm	Tape hole separation (E)	1.75 mm
Tape pocket separation (F)	14.20 mm	Tape reel diameter ⌀ (A)	330 mm
Surface resistance	Rs = 109 - 1012 Ω		

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	• Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Diameter of solder eyelet D = 1.4+0.1mm • Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 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. • 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 • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

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Technical data

Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

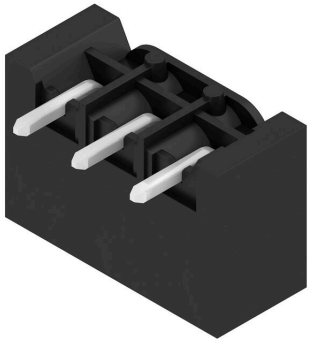
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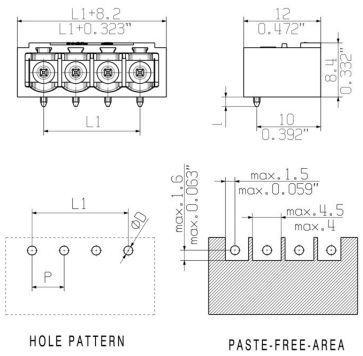
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Drawings

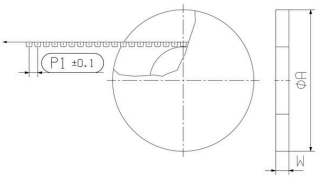
Product image



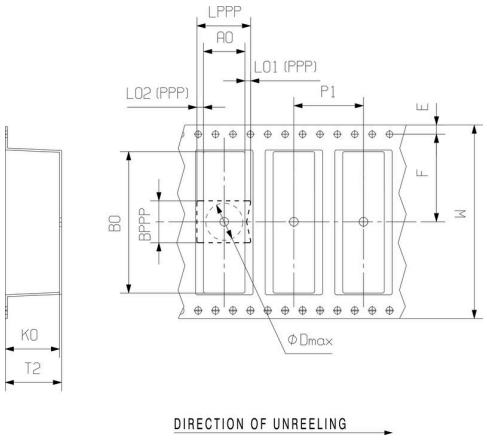
Dimensional drawing



Dimensional drawing



Dimensional drawing

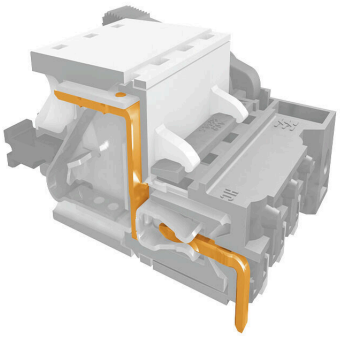


Example of use



Compliant with existing standards

Product benefits



Safe power transmissionProven properties

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Drawings

Product benefits



Compliant with existing standards

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Accessories

LED Light guides



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

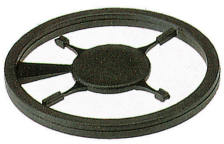
The result: simplified manufacturing process, reduced costs and simplified design

General ordering data

Type	SL FLA 2,3/1	Version
Order No.	1636670000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190409975	Number of poles: 1
Qty.	100 ST	

Type	SL FLA 2,3/24	Version
Order No.	1636680000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190409968	Number of poles: 1
Qty.	10 ST	

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.
Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase.
The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.
Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible.
The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	BLZ/SL KO BK BX	Version
Order No.	1545710000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	

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Accessories

Type	BLZ/SL KO OR BX	Version
Order No.	1573010000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396	of poles: 1
Qty.	100 ST	

LED Light guides



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- Can be partitioned for smaller pole numbers

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

General ordering data

Type	SL FLA 1.5/1	Version
Order No.	1580100000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190152475	Number of poles: 1
Qty.	100 ST	
Type	SL FLA 3.8/1	Version
Order No.	1580110000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190050740	Number of poles: 1
Qty.	100 ST	
Type	SL FLA 9.0/1	Version
Order No.	1580120000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190031909	Number of poles: 1
Qty.	100 ST	