



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

#### **Product image**















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The inverted BCL-SMT socket block for the PCB offers three significant advantages:

- The BCL-SMT offers touch-safe security on the PCB which makes it ideal for live, current-carrying outputs.
- The BCL-SMT widens the range of applications with board-to-board connections between component assemblies.
- The BCL-SMT is reflow-compatible and can be seamlessly integrated into the automatic assembly and soldering process.

Two outlet directions give you a choice of position and thus more design flexibility.

- 180° standing
- 90° recumbent

Two housing variants are available for the BCL-SMT:

- Without flange
- With inverted solder flange ("LFI", with nut)
- · Fastened to PCB without additional screw
  - · Fastened with screw to the SCZ FI

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of customary connectors and offer space for labelling and coding.

#### **General ordering data**

Version	PCB plug-in connector, female header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 11, 180°, Solder pin length (I): 1.5 mm, tinned, black, Box
Order No.	<u>1976620000</u>
Туре	BCL-SMT 3.81/11/180 1.5SN BK BX
GTIN (EAN)	4032248679072
Qty.	50 items
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Вох

Catalogue status / Drawings



## BCL-SMT 3.81/11/180 1.5SN BK BX



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# Technical data

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Approvals	c <b>FL</b> *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

#### **Dimensions and weights**

Net weight 4.62 g

#### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

#### **System specifications**

Product family	OMNIMATE Signal - series BC/SC 3.81	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.150 "	Outgoing elbow	180°
Number of poles	11	Number of solder pins per pole	2
Solder pin length (I)	1.5 mm	Solder pin length tolerance	0 / -0,02 mm
Solder pin dimensions	d = 0.8 mm	Solder pin dimensions = d tolerance	+0,05 / -0,05 mm
Solder eyelet hole diameter (D)	1.2 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
Outside diameter of solder pad	1.9 mm	Template aperture diameter	1.6 mm
L1 in mm	38.10 mm	L1 in inches	1.500 "
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
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging force/pole, max.	9.5 N	Pulling force/pole, max.	6 N

#### **Material data**

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	13 μm Ni / 24 μm Sn matt
Layer structure of plug contact	13 μm Ni / 24 μm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

#### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	15.4 A	Rated current, min. number of poles (Tu=40°C)	17.5 A

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Catalogue status / Drawings





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# **Technical data**

Rated current, max. number of poles 13.8 A (Tu=40°C)	Rated voltage for surge voltage class / 320 V pollution degree II/2
Rated voltage for surge voltage class / 160 V pollution degree III/2	Rated voltage for surge voltage class / 160 V pollution degree III/3
Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 2.5 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 2.5 kV class/ contamination degree III/3	Short-time withstand current resistance 3 x 1s with 76 A

#### Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated current (Use group B / CSA)	11 A	Rated current (Use group C / CSA)	11 A

#### Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	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)	10 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### **Packing**

Packaging	Box	VPE length	20.00 mm
VPE width	120.00 mm	VPE height	230.00 mm

## Important note

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	<ul> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>P on drawing = pitch</li> <li>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.</li> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70% 36 months</li> </ul>

#### Classifications

EC002637	ETIM 7.0	EC002637
EC002637	ETIM 9.0	EC002637
EC002637	ECLASS 9.0	27-44-04-02
27-44-04-02	ECLASS 10.0	27-44-04-02
27-46-02-01	ECLASS 12.0	27-46-02-01
27-46-02-01	ECLASS 14.0	27-46-02-01
27-46-02-01		
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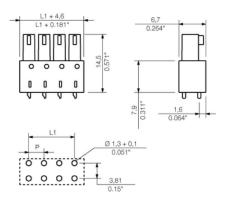
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# **Drawings**

#### **Product image**



### **Dimensional drawing**



Graph Graph

