

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-2083 www.weidmueller.com





















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.

- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

### **General ordering data**

Order No.	<u>1976530000</u>	
Туре	BCL-SMT 3.81/05/180 1.5SN BK BX	
Version	PCB plug-in connector, female header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (I): 1.5 mm, tinned, Black, Box	
GTIN (EAN)	4032248679010	
Qty.	50 pc(s).	
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A	
Packaging	Box	

Creation date June 30, 2012 6:02:23 PM CEST



2.24 g

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-2083 www.weidmueller.com

# **Technical data**

#### **Dimensions**

Net weight

System parameters			
Product family	BC/SC 3.81 series	Mounting onto the PCB	Reflow solder connection
Outgoing elbow	180°	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	No. of poles	5
Solder pin length (I)	1.5 mm	Pin dimensions	d = 0.8 mm
Can be coded	Yes	Number of rows	1
Number of solder pins per pole	2	Solder eyelet hole diameter (D)	1.2 mm
Solder eyelet hole diameter tolerance	(D)+ 0,1 mm	L1 in mm	15.24 mm
L1 in inches	0.6 inch	Insulation resistance	10 <sup>3</sup> Ω
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106 Safe from finger tou	
Material data			
nsulating material	LCP GF	Colour	Black
Insulating material group	IIIa	Flammability class UL 94	V-0
СТІ	≥ 175	Contact material	Copper alloy
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	120 °C	Max. relative humidity during storage	85 %
DIN IEC rating data			
Rated current, min. no. of poles	47.5.4	Rated current, max. no. of poles	45.4.4
(TU=20°C) Rated current, number of poles	17.5 A	(Tu=20°C)	15.4 A
Rated current, number of poles Tu=40°C), min	17.5 A	Rated current, number of poles (Tu=40°C), max.	13.8 A
Rated voltage for surge voltage class / pollution degree III/3	, 160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class , pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class , pollution degree II/2	, 320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistand	ce 3 x 1s with 76 A		

## **CSA** rating data

Rated voltage (Use group B)	300 V	Rated current (use group B)	10 A	
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A	

### **UL 1059 rating data**

Rated voltage (use group B)	300 V	Rated current (use group B)	10 A	
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A	

### Classifications

UNSPSC	30-21-18-01	eClass 6.0	27-26-07-04
eClass 7.0	27-44-04-02		



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-2083 www.weidmueller.com

# **Technical data**

#### Notes

Notes	Additional colours on request
	Gold-plated contact surfaces on request
	Rated current related to rated cross-section and min. No. of poles.
	• P on drg. = pitch
	<ul> <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> </ul>



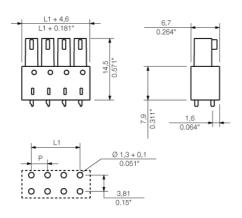
#### Weidmüller Interface GmbH & Co. KG

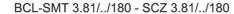
Klingenbergstraße 16 D-32758 Detmold

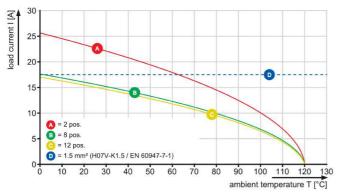
Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-2083 www.weidmueller.com

# **Drawings**







## BCL-SMT 3.81/../180 - SCZ 3.81/../180

