

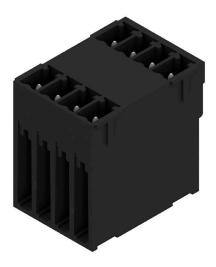


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**















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High-temperature-resistant two-tier SCD-THR pin header for reflow soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 90° (recumbent)
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

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

#### **General ordering data**

Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 8, 180°, Solder pin length (I): 1.5 mm, tinned, black, Box
Order No.	<u>1031320000</u>
Туре	SCD-THR 3.81/08/180G 1.5SN BK BX
GTIN (EAN)	4032248760350
Qty.	50 items
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A
Packaging	Вох





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Solder eyelet hole diameter tolerance (D)+ 0,1 mm

1.9 mm 0.450 "

unplugged

Yes

5.5 N

IP20 plugged/ IP10

Template aperture diameter

Touch-safe protection acc. to DIN VDE

L1 in inches

Can be coded

0470

Pin series quantity

Pulling force/pole, max.

# **Technical data**

Approvals			
Approvals	c <b>Flu</b> s		
ROHS	Conform		
UL File Number Search	<u>UL Website</u>		
Certificate No. (cURus)	E60693		
Dimensions and weights	<b>S</b>		
D 41-	22.7	Dough (in the ca)	0.0007 :1-
Depth	22.7 mm 23.4 mm	Depth (inches)	0.8937 inch 0.9213 inch
Height	23.4 mm 21.9 mm	Height (inches) Width	16.63 mm
Height of lowest version Width (inches)	0.6547 inch	Net weight	8 g
Environmental Product ( RoHS Compliance Status	Compliant without exemptic	on .	
REACH SVHC	No SVHC above 0.1 wt%		
System specifications			
D 1 ( )	ONANIINAATE C:	<b>T</b>	B 1
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	8	Number of solder pins per pole	1
Solder pin length (I)	1.5 mm	Solder pin length tolerance	+0,02 / -0,02 mm
Solder pin dimensions	d = 1.0 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm

#### **Material data**

Volume resistance

Plugging force/pole, max.

L1 in mm

57 106

Number of rows

Solder eyelet hole diameter (D)

Outside diameter of solder pad

Touch-safe protection acc. to DIN VDE

1.3 mm

2.1 mm

≤5 mΩ

8 N

11.43 mm

finger-safe unplugged/

back-of-hand-safe plugged

LCP GF	Colour	black
RAL 9011	Insulating material group	Illa
≥ 175	Moisture Level (MSL)	1
V-0	Contact material	Cu-alloy
tinned	Storage temperature, min.	-40 °C
70 °C	Operating temperature, min.	-50 °C
120 °C	Temperature range, installation, min.	-25 °C
120 °C		
	RAL 9011 ≥ 175 V-0 tinned 70 °C 120 °C	RAL 9011  ≥ 175  Moisture Level (MSL)  V-0  Contact material  tinned  Storage temperature, min.  70 °C  Operating temperature, min.  Temperature range, installation, min.

#### 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)	9.4 A	Rated current, min. number of poles (Tu=40°C)	17 A

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Catalogue status / Drawings 2





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# **Technical data**

Rated current, max. number of poles 8.1 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 current (Use group B / 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)	11 A	Rated current (Use group D / UL 1059)	11 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### **Packing**

Packaging	Box	VPE length	25.00 mm
VPE width	140.00 mm	VPE height	255.00 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	<ul> <li>Additional variants on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</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>P on drawing = pitch</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> </ul>

• Long term storage of the product with average temperature of 50 °C and maximum humidity

# 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		

70%, 36 months

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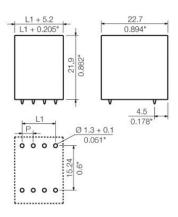
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# **Drawings**

### **Product image**



## **Dimensional drawing**







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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**

Туре	SC-SMT 3.81 KO BK BX	Version
Order No.	2460700000	PCB plug-in connector, Accessories, Coding element, black
GTIN (EAN)	4050118480023	
Qty.	100 ST	
Туре	SC-SMT 3.81 KO WT BX	Version
Order No.	2467670000	PCB plug-in connector, Accessories, Coding element, white
Order No. GTIN (EAN)	2467670000 4050118494693	PCB plug-in connector, Accessories, Coding element, white