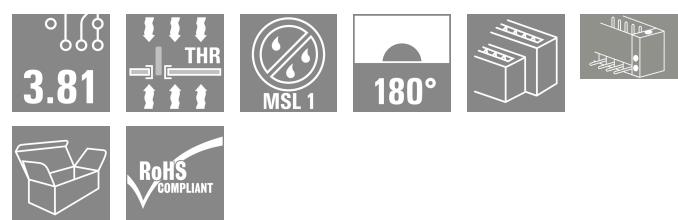


**SCDV-THR 3.81/32/180F 3.2SN BK BX**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Product image**

High-temperature-resistant two-tier SCDV-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 two offset levels and open access to each row.
- 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, Flange, THT/THR solder connection, 3.81 mm, Number of poles: 32, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	<a href="#">1036110000</a>
Type	SCDV-THR 3.81/32/180F 3.2SN BK BX
GTIN (EAN)	4032248764778
Qty.	20 items
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A
Packaging	Box

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## Technical data

## Approvals

RoHS	Conform
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## Dimensions and weights

Depth	22.7 mm	Depth (inches)	0.8937 inch
Height	25.1 mm	Height (inches)	0.9882 inch
Height of lowest version	21.9 mm	Width	71.35 mm
Width (inches)	2.809 inch	Net weight	22.3 g

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	9b6bf7c16-4508-86c1-7feb387c72ee

## 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	32																		
Number of solder pins per pole	1																		
Solder pin length (l)	3.2 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																		
Solder eyelet hole diameter (D)	1.3 mm																		
Solder eyelet hole diameter tolerance (D)+ 0,1 mm																			
Outside diameter of solder pad	2.1 mm																		
Template aperture diameter	1.9 mm																		
L1 in mm	57.15 mm																		
L1 in inches	2.250 "																		
Number of rows	2																		
Pin series quantity	2																		
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																		
Volume resistance	≤5 mΩ																		
Can be coded	Yes																		
Tightening torque	<table> <tr> <td>Torque type</td> <td>Mounting screw, PCB</td> </tr> <tr> <td>Usage information</td> <td>Tightening torque</td> </tr> <tr> <td></td> <td>min. 0.1 Nm</td> </tr> <tr> <td></td> <td>max. 0.15 Nm</td> </tr> <tr> <td></td> <td>Recommended screw</td> </tr> <tr> <td></td> <td>Part number</td> </tr> <tr> <td></td> <td>PTSC KA</td> </tr> <tr> <td></td> <td>2.2X4.5</td> </tr> <tr> <td></td> <td>WN1412</td> </tr> </table>	Torque type	Mounting screw, PCB	Usage information	Tightening torque		min. 0.1 Nm		max. 0.15 Nm		Recommended screw		Part number		PTSC KA		2.2X4.5		WN1412
Torque type	Mounting screw, PCB																		
Usage information	Tightening torque																		
	min. 0.1 Nm																		
	max. 0.15 Nm																		
	Recommended screw																		
	Part number																		
	PTSC KA																		
	2.2X4.5																		
	WN1412																		

## Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa

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## Technical data

Comparative Tracking Index (CTI)	$\geq 175$
UL 94 flammability rating	V-0
Contact surface	tinned
Storage temperature, max.	70 °C
Operating temperature, max.	120 °C
Temperature range, installation, max.	120 °C

Moisture Level (MSL)	1
Contact material	Copper alloy
Storage temperature, min.	-40 °C
Operating temperature, min.	-50 °C
Temperature range, installation, min.	-25 °C

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984
Rated current, max. number of poles (Tu=20°C)	13.2 A
Rated current, max. number of poles (Tu=40°C)	12.2 A
Rated voltage for surge voltage class / pollution degree III/2	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV

Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, min. number of poles (Tu=40°C)	17 A
Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Short-time withstand current resistance	3 x 1 s 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 voltage (Use group D / CSA)	300 V
Rated current (Use group D / CSA)	10 A

## Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V
Rated current (Use group B / UL 1059)	11 A

Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group D / UL 1059)	10 A

## Packing

Packaging	Box
VPE width	135.00 mm

VPE length	25.00 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.
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Notes	<ul style="list-style-type: none"> <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> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>
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## Classifications

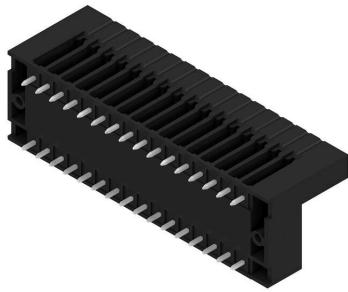
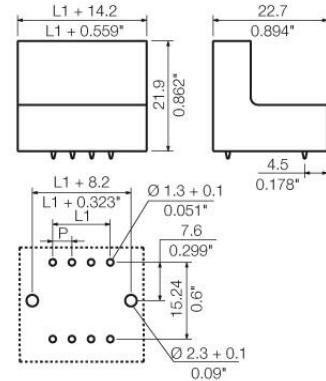
ETIM 8.0	EC002637
ETIM 10.0	EC002637
ECLASS 15.0	27-46-02-01

ETIM 9.0	EC002637
ECLASS 14.0	27-46-02-01

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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

Type	SC-SMT 3.81 KO BK BX	Version
Order No.	<a href="#">2460700000</a>	PCB plug-in connector, Accessories, Coding element, black
GTIN (EAN)	4050118480023	
Qty.	100 ST	
Type	SC-SMT 3.81 KO WT BX	Version
Order No.	<a href="#">2467670000</a>	PCB plug-in connector, Accessories, Coding element, white
GTIN (EAN)	4050118494693	
Qty.	100 ST	

## Additional accessories



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

## General ordering data

Type	PTSC KA 2.2X4.5 WN1412	Version
Order No.	<a href="#">1610740000</a>	PCB plug-in connector, Accessories, Mounting screw, Number of
GTIN (EAN)	4008190039523	poles: 1
Qty.	100 ST	