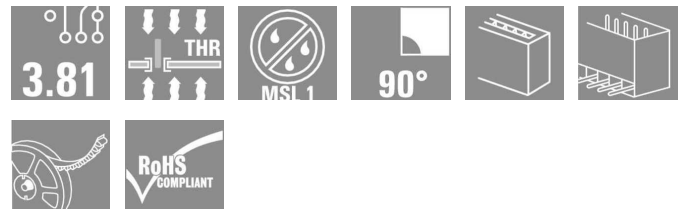


## OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/10/90G 3.2SN BK RL

**Weidmüller Interface GmbH & Co. KG**  
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Germany  
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Fax: +49 5231 14292083  
www.weidmueller.com



High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

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

Type	SC-SMT 3.81/10/90G 3.2SN BK RL
Order No.	<a href="#">1862930000</a>
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, No. of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Tape (Ø 330 mm); Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω
GTIN (EAN)	4032248428052
Qty.	400 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Tape (Ø 330 mm); Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω

**OMNIMATE Signal - series BC/SC 3.81  
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**Technical data****Dimensions and weights**

Net weight	3.48 g
------------	--------

**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)	0.15 inch	Outgoing elbow	90°
No. of poles	10	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder pin length tolerance	0 / -0,02 mm
Tolerance of solder pin position	± 0.15 mm	Solder pin dimensions	d = 1.0 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,04 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	34.29 mm
L1 in inches	1.35 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Volume resistance	6.00 mΩ
Can be coded	Yes	Plugging cycles	25
push-in force/pole	0 N	Packaging	Tape (Ø 330 mm); Rs = 10 <sup>9</sup> - 10 <sup>12</sup> Ω

**Material data**

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 175	Insulation resistance	≥ 10 <sup>8</sup> Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-Leg	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	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. no. of poles (Ta = 20°C)	17.5 A
Rated current, max. no. of poles (Ta = 20°C)	13.9 A	Rated current, min. no. of poles (Ta = 40°C)	17 A
Rated current, max. no. of poles (Ta = 40°C)	12.4 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 76 A

**OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/10/90G 3.2SN BK RL**


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**Technical data**

**Rated data acc. to CSA**

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B)	300 V	Rated current (use group B)	8 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Rated data acc. to UL 1059**

Institute (cURus)		Certificate No. (cURus)	E60693
Rated voltage (use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Classifications**

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02
eClass 9.1	27-44-04-02		

**Notes**

Notes	<ul style="list-style-type: none"> <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> </ul>
IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals	
ROHS	Conform

**Data sheet****OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/10/90G 3.2SN BK RL**

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**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
Altium Designer)

[Select your download](#)

SMT white paper

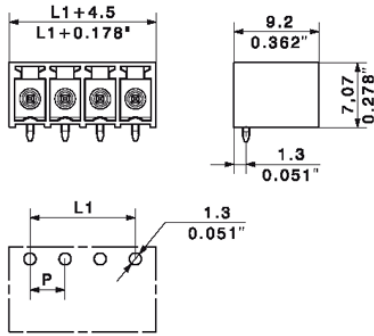
[Download Whitepaper](#)

Safety notice

[Safety indication](#)

**Data sheet****OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/10/90G 3.2SN BK RL**

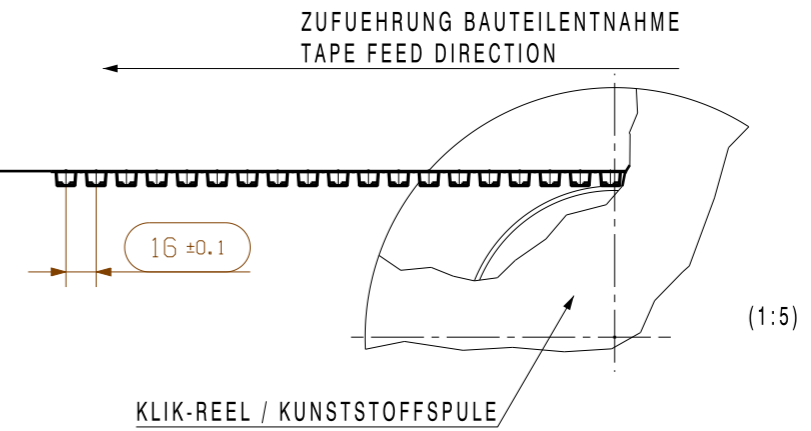
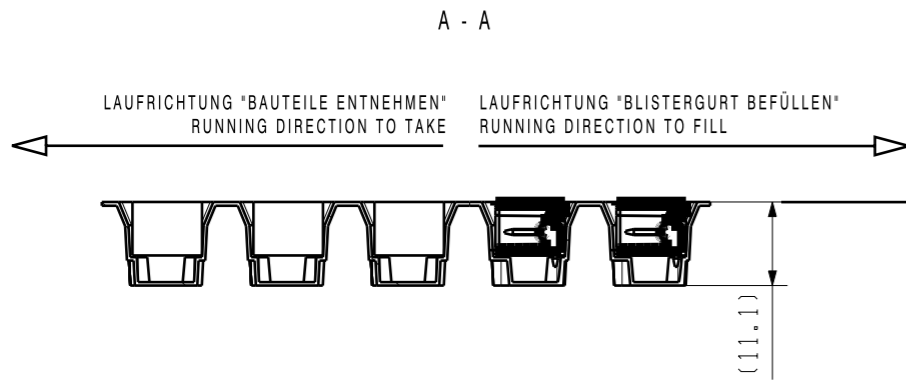
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**Drawings**

MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE  
 DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

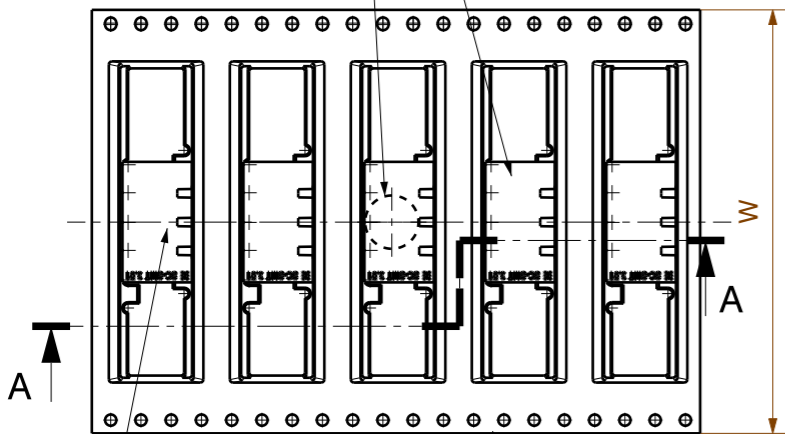
DIE DEUTSCHE VERSION IST VERBINDLICH  
 THE GERMAN VERSION IS BINDING

# New Universal-Tape



SHOWN: SC-SMT 3.81/04/180G 1.5 ..

PICK AND PLACE AREA MAX.  $\phi 7$



SHOWN: TAPE56 SC3.81/5G-10G/90

GERADE POLZAHL DARGESTELLT/  
 EVEN POLE NUMBER SHOWN

UNGERADE POLZAHL DREHUNG STIFTLAISTE UM 180°/  
 UNEVEN POLE NUMBER PIN HEADER ROTATED 180°

STIFTLAISTEN MÜSSEN MITTIG IM TAPE SITZEN /  
 PIN HEADER ASSEMBLED IN THE MIDDLE

TAPEBREITE/ TAPEWIDTH (MAT.NR.)	POL ZAHL NO OF POLS	SC-SMT 3.81/././90.. 1.5 BK		SC-SMT 3.81/././90.. 3.2 BK		SC-SMT 3.81/././90.. 2.1 BK		SC-SMT 3.81/././90.. 1.5 OR	
		BESTELLN.R./CAT.NO.		BESTELLN.R./CAT.NO.		BESTELLN.R./CAT.NO.		BESTELLN.R./CAT.NO.	
W	n	G	LF	G	LF	G	LF	G	LF
32 (1437290000)	2	1863140000	1862720000	1862810000	1863890000	2429820000		1105060000	
	3	1863150000	/	1862840000	/	2128630000	/		/
	4	1863160000	/	1862860000	/		/		/
44 (2017990000)	3	/	1862750000	/	1863970000	/		/	
	4	/	1862770000	/	1863980000	/		/	
	5	1863170000	1862790000	1862870000					
	6	1863180000	1862820000	1862880000					
	7	1863190000	/		/		/		/
	8	1863200000	/	1862900000	/		/		/
56 (1348070000)	7	/	1862830000	/		/		/	
	8	/	1862850000	/		/		/	
	9	1863210000	/		/		/		/
88 (1396710000)	10	1863220000	/	1862930000	/		/		/
	9	/	1430360000	/	1430370000	/		/	
	10	/	1430380000	/	1430390000	/		/	
	11	1430230000	1430400000		1430420000				
	12	1430250000	1430430000	1430240000	1359450000				
	13	1430270000	1430440000	1430260000	1430450000				
	14	1430290000	1430470000	1430280000	1430480000				
	15	1430330000	1430490000	1430320000	1430500000				
16	1430350000	1430510000	1430340000	1430520000					

84755/5  
 04.11.15 AMANN\_A 02  
 MODIFICATION

**Weidmüller**

CAT.NO.:  
**3 36136** 22  
 DRAWING NO. ISSUE NO.  
 SHEET 05 OF 05 SHEETS



DATE NAME  
 11.11.2004 POCTA\_C  
 RESPONSIBLE AMANN\_A  
 CHECKED  
 APPROVED LANG\_T

**SC-SMT 3.81/02...16/90**  
 STIFTLAISTE  
 MALE PLUG  
 In Prüfung /  
 Verification

SCALE: 5:1  
 SUPERSEDES: .

PRODUCT FILE: SC-SMT 3.81 7278

TAPE UND REEL GEMAESS IEC 286-3 (EN 60286-3) /  
 TAPE AND REEL ACCORDING TO IEC 286-3 (EN 60286-3)

WEITERGABE SOWIE VERVIELFÄLTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATET.  
 ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE FUER DEN FALL DER PATENT-, GEBRAUCHSMUSTER-, ODER GESCHMACKSMUSTEREINTRAGUNG VORBEHALTEN.  
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 WEIDMUELLER INTERFACE GmbH & Co.KG

## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

## Recommended reflow soldering profile

**Weidmüller Interface GmbH & Co. KG**  
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### Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically  $\leq +3\text{K/s}$ . In parallel the solder paste is ‚activated‘. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at  $\geq -6\text{K/s}$  solder is cured. Board and components cool down while avoiding cold cracks.



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Let's connect.


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