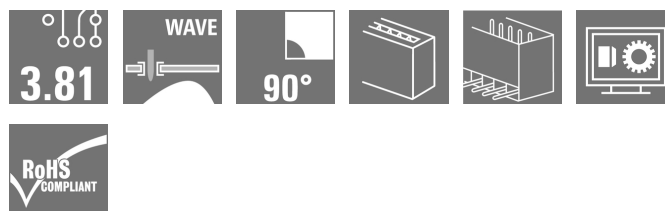


**OMNIMATE Signal - series BC/SC 3.81
SC 3.81/05/90G 3.2SN BK BX**

Weidmüller Interface GmbH & Co. KG
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Product image

Similar to illustration

The SC pin header has a parallel (recumbent) plugging direction in relation to the PCB. It is available in closed (G) and screw flange (F) versions.

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

General ordering data

Type	SC 3.81/05/90G 3.2SN BK BX
Order No.	1793160000
Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.81 mm, Number of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box
GTIN (EAN)	4032248227655
Qty.	50 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Box

Creation date May 3, 2020 3:56:18 PM CEST

OMNIMATE Signal - series BC/SC 3.81
SC 3.81/05/90G 3.2SN BK BX

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Technical data
Dimensions and weights

Width	20.45 mm	Width (inches)	0.805 inch
Height	10.3 mm	Height (inches)	0.406 inch
Height of lowest version	7.1 mm	Depth	9.2 mm
Depth (inches)	0.362 inch	Net weight	1.42 g

System specifications

Product family	OMNIMATE Signal - series BC/SC 3.81	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	Outgoing elbow	90°
Number of poles	5	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	± 0.1 mm	Solder pin dimensions	d = 1.0 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0.03 mm	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	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	≤ 5mΩ
Can be coded	Yes	Plugging cycles	25
Plugging force/pole, max.	7 N	Pulling force/pole, max.	5 N

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	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)	17.5 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	16.3 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

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated current (Use group B / CSA)	8 A
-----------------------------------	-------	-----------------------------------	-----

OMNIMATE Signal - series BC/SC 3.81
SC 3.81/05/90G 3.2SN BK BX

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Technical data
Rated data acc. to UL 1059

Institute (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	44 mm
VPE width	57 mm	VPE height	78 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10

Notes

Notes

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- 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.
- P on drawing = pitch

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.

Approvals

Approvals



ROHS

Conform

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/05/90G 3.2SN BK BX

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Technical data

Downloads

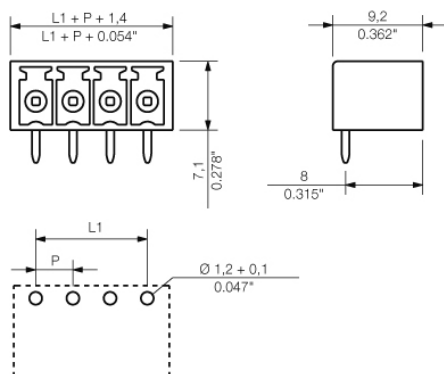
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
Product Change Notification	Change of packaging - DE Change of packaging - EN

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/05/90G 3.2SN BK BX

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Drawings

Dimensional drawing



OMNIMATE Signal - series BC/SC 3.81

SC 3.81/05/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

BCZ 3.81/180F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

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

Type	BCZ 3.81/05/180F SN BK ...	Version	Product data	Packaging
Order No.	1792980000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248227068	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		
Type	BCZ 3.81/05/180F SN OR ...	Version	Product data	Packaging
Order No.	1941040000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248655809	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		
Type	BCZ 3.81/05/180F SN GN ...	Version	Product data	Packaging
Order No.	1793070000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248227150	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/05/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

BCZ 3.81/180LR



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

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

Type	BCZ 3.81/05/180LR SN OR ...	Version	Product data	Packaging
Order No.	1941430000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248698356	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		
Type	BCZ 3.81/05/180LR SN BK ...	Version	Product data	Packaging
Order No.	1941810000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248698738	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		
Type	BCZ 3.81/05/180LR SN GN ...	Version	Product data	Packaging
Order No.	1941620000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248698547	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		

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Mating connector (conditionally pluggable)

BCZ 3.81/270F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

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

Type	BCZ 3.81/05/270F SN GN ...	Version	Product data	Packaging
Order No.	1799200000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248244096	270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		
Type	BCZ 3.81/05/270F SN OR ...	Version	Product data	Packaging
Order No.	1940490000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248656349	270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		
Type	BCZ 3.81/05/270F SN BK ...	Version	Product data	Packaging
Order No.	1799120000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248244010	270°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).	Box		

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/05/90G 3.2SN BK BX

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Mating connector (conditionally pluggable)

BCZ 3.81/90F



Female socket connectors with clamping-yoke screw system for connecting wires.

Three wire-outlet directions are available and provide flexible connection-level design options:

- 180° wire parallel to plugging direction
- 90° wire perpendicular and above plugging direction
- 270° wire perpendicular and below plugging direction

There are three housing shapes, covering many different requirements, to choose from:

- Standard housing without flange
- Flange with screw (F)
- Flange featuring Weidmüller's patented release latch (LR) for lock-and-release latching with no strain and no tools needed.

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

Type	BCZ 3.81/05/90F SN BK BX	Version	Product data	Packaging
Order No.	1798800000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248243488	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).			
Type	BCZ 3.81/05/90F SN OR BX	Version	Product data	Packaging
Order No.	1940010000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248656813	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).			
Type	BCZ 3.81/05/90F SN GN BX	Version	Product data	Packaging
Order No.	1798880000	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 5,	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4032248243563	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 10 A / AWG 28 - AWG 16	
Qty.	50 pc(s).			

OMNIMATE Signal - series BC/SC 3.81 SC 3.81/05/90G 3.2SN BK BX

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Mating connector (fully pluggable)

BCL-SMT 3.81/180



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

Type	BCL-SMT 3.81/05/180 1.5 ...	Version	Product data	Packaging
Order No.	1976530000	PCB plug-in connector, female header, closed side, THT/THR solder connection, 3.81 mm, Number of poles: 5, 180°, Solder pin length (l):	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248679010	1.5 mm, tinned, black, Box	UL: 300 V / 10 A	
Qty.	50 pc(s).			

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Accessories

LED Light guides



Effective: the link between LED and front panel.

Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

General ordering data

Type	SC 3.81 FLA 2.3/14.25	Version	Product data	Packaging
Order No.	1979750000	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4032248752478	Number of poles: 8		
Qty.	50 pc(s).			
Type	SC 3.81 FLA 2.3/16	Version	Product data	Packaging
Order No.	1979740000	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4032248752461	Number of poles: 8		
Qty.	50 pc(s).			
Type	SC 3.81 FLA 1.5/14.25	Version	Product data	Packaging
Order No.	1979730000	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4032248752454	Number of poles: 8		
Qty.	50 pc(s).			
Type	SC 3.81 FLA 1.5/16	Version	Product data	Packaging
Order No.	1979720000	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4032248752447	Number of poles: 8		
Qty.	50 pc(s).			

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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.

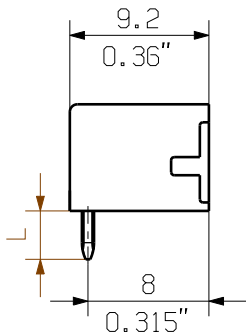
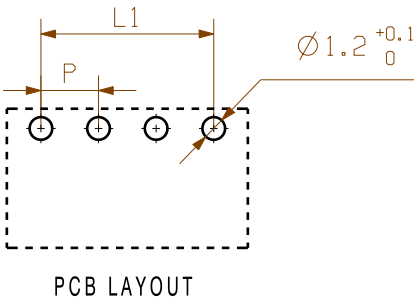
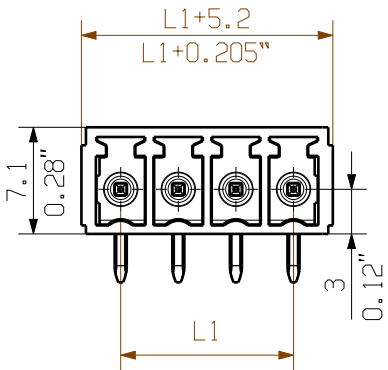
Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

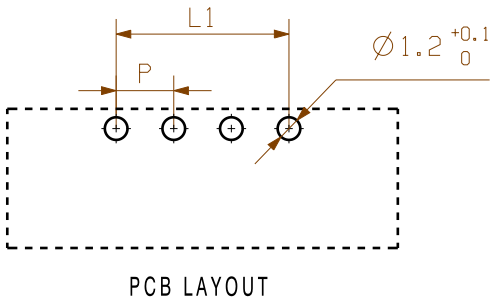
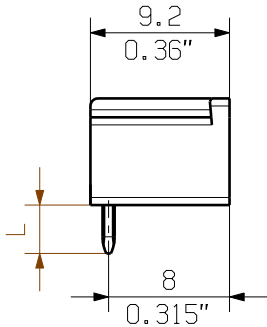
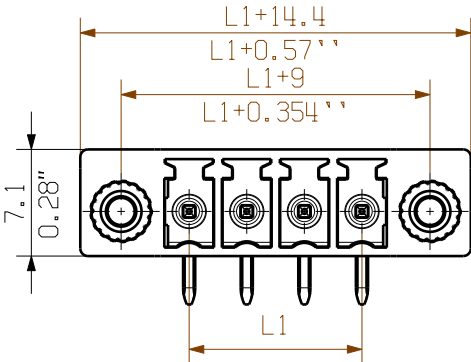
Type	SC-SMT 3.81 KO GY BX	Version	Product data	Packaging
Order No.	1968900000	PCB plug-in connector, Accessories, Coding element, grey, Number of		Box
GTIN (EAN)	4032248772865	poles: 6		
Qty.	100 pc(s).			

08

SC 3.81/.../90G 3.2....



SC 3.81/.../90F 3.2...



KUNDENZEICHNUNG
CUSTOMER DRAWING

P = 3.81

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance with VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

GENERAL TOLERANCE: DIN ISO 2768-m		97482/0 06.09.17 MA_J		01	Cat.no.: .		
RoHS COMPLIANT		Max. nos.		Modification		Weidmüller	
Scale: 5/1		Supersedes: .		Drawn	09.02.2006	ZHANG_H	SC 3.81/.../90...3.2... ANSCHLUSS STIFTHEISTE PIN HEADER
				Responsible		MA_J	
				Checked	13.09.2017	ZHOU_N	
				Approved		XU_S	Product file: SC 3.81
						7069	

20	72.39	2.850
19	68.58	2.700
18	64.77	2.550
17	60.96	2.400
16	57.15	2.250
15	53.34	2.100
14	49.53	1.950
13	45.72	1.800
12	41.91	1.650
11	38.10	1.500
10	34.29	1.350
9	30.48	1.200
8	26.67	1.050
7	22.86	0.900
6	19.05	0.750
5	15.24	0.600
4	11.43	0.450
3	7.62	0.300
2	3.81	0.150
N	L1 [mm]	L1 [inch]

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.

We reserve the right to make technical changes.