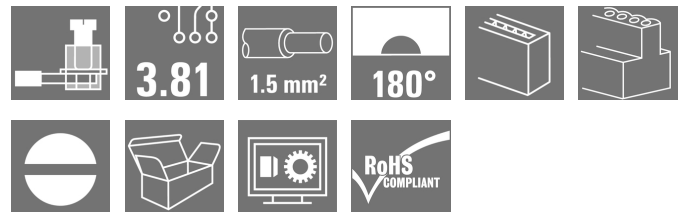


OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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www.weidmueller.com

Product image



Similar to illustration

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 3.81/04/180 SN BK BX
Order No.	1792790000
Version	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
GTIN (EAN)	4032248226771
Qty.	50 pc(s).
Product data	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 16
Packaging	Box

OMNIMATE Signal - series BC/SC 3.81

BCZ 3.81/04/180 SN BK BX

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Technical data

Dimensions and weights

Width	15.33	Width (inches)	0.604 inch
Height	11.1 mm	Height (inches)	0.437 inch
Depth	16.1 mm	Depth (inches)	0.634 inch
Net weight	3.24 g		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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System Parameters

Product family	OMNIMATE Signal - series BC/SC 3.81	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	Conductor outlet direction	180°
Number of poles	4	L1 in mm	11.43 mm
L1 in inches	0.45 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	1 mm ²
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
Stripping length	7 mm	Tightening torque, min.	0.2 Nm
Tightening torque, max.	0.25 Nm	Clamping screw	M 2
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Plugging force/pole, max.	7 N
Pulling force/pole, max.	5 N		

Material data

Insulating material	PA 66 GF 30	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
Layer structure of plug contact	0.5-1.5 µm Cu / 2-5 µm Sn	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

Conductors suitable for connection

Clamping range, min.	0.08 mm ²
Clamping range, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 28
Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm ² max.	

**OMNIMATE Signal - series BC/SC 3.81
BCZ 3.81/04/180 SN BK BX**

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Technical data

w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm²		
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²		
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm ; 2.4 mm		
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire-end ferrule	H0.5/6
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire-end ferrule	H0.75/6
	Cross-section for conductor connection	Type	fine-wired
		nominal	1 mm²
	wire end ferrule	Stripping length	nominal 6 mm
		Recommended wire-end ferrule	H1.0/6
Reference text	Cross-section for conductor connection	Type	fine-wired
		nominal	1.5 mm²
	wire end ferrule	Stripping length	nominal 7 mm
		Recommended wire-end ferrule	H1.5/7
The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.			
Max. clamping range	1.5 mm²		

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 A
Rated current, max. number of poles (Tu=40°C)	15.2 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

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated current (Use group B / CSA)	8 A	Rated current (Use group C / CSA)	8 A
Wire cross-section, AWG, min.	AWG 28	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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BCZ 3.81/04/180 SN 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

Wire cross-section, AWG, min. AWG 28

Wire cross-section, AWG, max. AWG 16

Reference to approval values
 Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Box	VPE length	45 mm
VPE width	75 mm	VPE height	75 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, rated voltage, rated cross-section, pitch, type of material, approval marking UL, approval marking CSA
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.06
	Test	180° turned without coding elements
	Evaluation	passed
	Test	visual examination
	Evaluation	passed

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Technical data

Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor and conductor cross-section	solid 0.08 mm ²
		Type of conductor and conductor cross-section	stranded 0.08 mm ²
		Type of conductor and conductor cross-section	solid 1.5 mm ²
		Type of conductor and conductor cross-section	stranded 1.5 mm ²
		Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
	Evaluation	passed	
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 9.4 / 12.00	
	Requirement	0.2 kg	
	Conductor type	Type of conductor and conductor cross-section	stranded 0.25 mm ²
		Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm ²
	Evaluation	passed	
	Requirement	0.4 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 1.5 mm ²
		Type of conductor and conductor cross-section	stranded 1.5 mm ²
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
	Evaluation	passed	

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Technical data

Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00	
	Requirement	≥10 N	
	Conductor type	Type of conductor and conductor cross-section	stranded 0.25 mm ²
		Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	≥20 N	
	Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
		passed	
		≥40 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-U1.5
		Type of conductor and conductor cross-section	H07V-K1.5
		Type of conductor and conductor cross-section	AWG 16/1
		Type of conductor and conductor cross-section	AWG 16/19
	Evaluation	passed	

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09	UNSPSC	30-21-18-10

Notes

Notes	• Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • P on drawing = pitch • 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.
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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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Technical data**Approvals**

Approvals



ROHS

Conform

Downloads

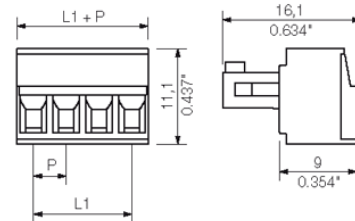
Approval/Certificate/Document of Conformity	CB Certificate CB Testreport Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR 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

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

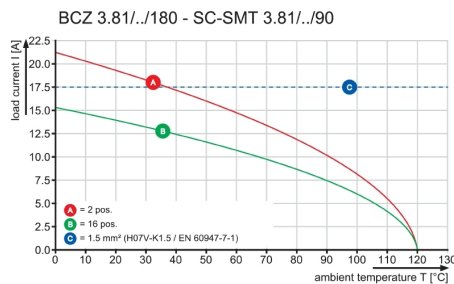
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Drawings

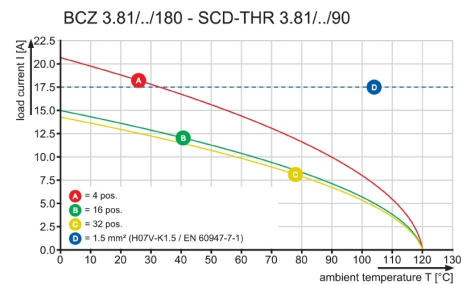
Dimensional drawing



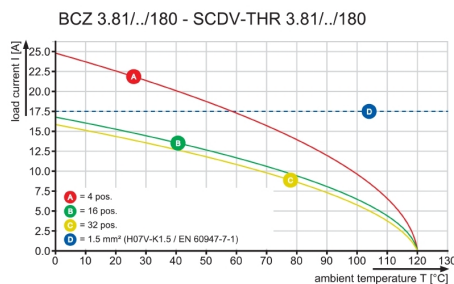
Graph



Graph



Graph



OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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Mating connector (fully pluggable)

SC-SMT 3.81/180G Tape



High-temperature-resistant pin header (SC-SMT 180G) in 3.81-mm pitch (0.15 inch)

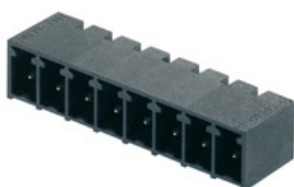
- Plugging direction is perpendicular to PCB (standing)
- Closed (G) .
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

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 3.81/02/180G 3.2 ...	Version	Product data	Packaging
Order No.	1863450000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248428557	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	300 pc(s).	3.2 mm, tinned, black, Tape		
Type	SC-SMT 3.81/02/180G 1.5 ...	Version	Product data	Packaging
Order No.	1864050000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248429172	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	300 pc(s).	1.5 mm, tinned, black, Tape		

SC-SMT 3.81/90G Box



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 3.81/02/90G 3.2S ...	Version	Product data	Packaging
Order No.	1862460000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248427611	connection, 3.81 mm, Number of poles: 2, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		
Type	SC-SMT 3.81/02/90G 1.5S ...	Version	Product data	Packaging
Order No.	1862960000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248428069	connection, 3.81 mm, Number of poles: 2, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	1.5 mm, tinned, black, Box		

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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Mating connector (fully pluggable)

SC-SMT 3.81/180G Box



High-temperature-resistant pin header (SC-SMT 180G) in 3.81-mm pitch (0.15 inch)

- Plugging direction is perpendicular to PCB (standing)
- 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 3.81/02/180G 3.2 ...	Version	Product data	Packaging
Order No.	1862920000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248428113	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		
Type	SC-SMT 3.81/02/180G 1.5 ...	Version	Product data	Packaging
Order No.	1863720000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248428793	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	1.5 mm, tinned, black, Box		

SC 3.81/90G



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 3.81/02/90G 3.2SN GN ...	Version	Product data	Packaging
Order No.	1793240000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248227716	connection, 3.81 mm, Number of poles: 2, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pale green, Box		
Type	SC 3.81/02/90G 3.2SN OR ...	Version	Product data	Packaging
Order No.	1942020000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248655526	connection, 3.81 mm, Number of poles: 2, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SC 3.81/02/90G 3.2SN BK ...	Version	Product data	Packaging
Order No.	1793130000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248227624	connection, 3.81 mm, Number of poles: 2, 90°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		

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Mating connector (fully pluggable)

SC 3.81/180G



The SC pin header has a perpendicular (standing) 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 and offer space for labelling and coding.

General ordering data

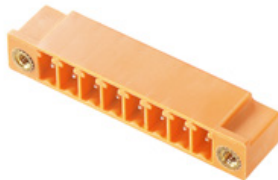
Type	SC 3.81/02/180G 3.2SN O ...	Version	Product data	Packaging
Order No.	1942840000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248654758	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, orange, Box		
Type	SC 3.81/02/180G 3.2SN B ...	Version	Product data	Packaging
Order No.	1793520000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248230433	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		
Type	SC 3.81/02/180G 3.2SN G ...	Version	Product data	Packaging
Order No.	1793610000	PCB plug-in connector, male header, closed side, THT solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248230730	connection, 3.81 mm, Number of poles: 2, 180°, Solder pin length (l):	UL: 300 V / 10 A	
Qty.	50 pc(s).	3.2 mm, tinned, Pale green, Box		

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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Mating connector (conditionally pluggable)

SC 3.81/90F



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 3.81/04/90F 3.2SN OR ...	Version	Product data	Packaging
Order No.	1942470000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248655120	3.81 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		
Type	SC 3.81/04/90F 3.2SN GN ...	Version	Product data	Packaging
Order No.	1793440000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248228713	3.81 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Pale green, Box		
Type	SC 3.81/04/90F 3.2SN BK ...	Version	Product data	Packaging
Order No.	1793350000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248228423	3.81 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		

SC-SMT 3.81/90LF Box



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

- Plugging direction parallel to PCB (recumbent)
- With solder flange (LF).
- 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.

General ordering data

Type	SC-SMT 3.81/04/90LF 1.5 ...	Version	Product data	Packaging
Order No.	1862590000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248427550	connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	1.5 mm, tinned, black, Box		
Type	SC-SMT 3.81/04/90LF 3.2 ...	Version	Product data	Packaging
Order No.	1863690000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248428878	connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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Mating connector (conditionally pluggable)

SC-SMT 3.81/180LF Tape



High-temperature-resistant pin header (SC-SMT 180LF) in 3.81-mm pitch (0.15 inch)

- Plugging direction is perpendicular to PCB (standing)
- With solder flange (LF).
- 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.

General ordering data

Type	SC-SMT 3.81/04/180LF 1. ...	Version	Product data	Packaging
Order No.	1864240000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248429547	connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	300 pc(s).	1.5 mm, tinned, black, Tape		
Type	SC-SMT 3.81/04/180LF 3. ...	Version	Product data	Packaging
Order No.	1863530000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248428700	connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	300 pc(s).	3.2 mm, tinned, black, Tape		

SC-SMT 3.81/90LF Tape



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

- Plugging direction parallel to PCB (recumbent)
- With solder flange (LF).
- 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.

General ordering data

Type	SC-SMT 3.81/04/90LF 1.5 ...	Version	Product data	Packaging
Order No.	1862770000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248427963	connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	400 pc(s).	1.5 mm, tinned, black, Tape		
Type	SC-SMT 3.81/04/90LF 3.2 ...	Version	Product data	Packaging
Order No.	1863980000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248429226	connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	400 pc(s).	3.2 mm, tinned, black, Tape		

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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Mating connector (conditionally pluggable)

SC 3.81/180F

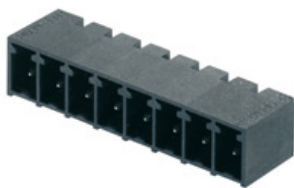


The SC pin header has a perpendicular (standing) plugging direction in relation to the PCB. It is available in closed (G) and screw flange (F) versions. Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

General ordering data

Type	SC 3.81/04/180F 3.2SN B ...	Version	Product data	Packaging
Order No.	1793720000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248230846	3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, black, Box		
Type	SC 3.81/04/180F 3.2SN G ...	Version	Product data	Packaging
Order No.	1793810000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248230938	3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, Pale green, Box		
Type	SC 3.81/04/180F 3.2SN O ...	Version	Product data	Packaging
Order No.	1943200000	PCB plug-in connector, male header, Flange, THT solder connection,	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248654390	3.81 mm, Number of poles: 4, 180°, Solder pin length (l): 3.2 mm,	UL: 300 V / 10 A	
Qty.	50 pc(s).	tinned, orange, Box		

SC-SMT 3.81/90G Tape



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 3.81/04/90G 1.5S ...	Version	Product data	Packaging
Order No.	1863160000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248428359	connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	400 pc(s).	1.5 mm, tinned, black, Tape		
Type	SC-SMT 3.81/04/90G 3.2S ...	Version	Product data	Packaging
Order No.	1862860000	PCB plug-in connector, male header, closed side, THT/THR solder	IEC: 320 V / 17.5 A	Tape
GTIN (EAN)	4032248427796	connection, 3.81 mm, Number of poles: 4, 90°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	400 pc(s).	3.2 mm, tinned, black, Tape		

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/04/180 SN BK BX

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Mating connector (conditionally pluggable)

SC-SMT 3.81/180LF Box



High-temperature-resistant pin header (SC-SMT 180LF) in 3.81-mm pitch (0.15 inch)

- Plugging direction is perpendicular to PCB (standing)
- With solder flange (LF).
- 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.

General ordering data

Type	SC-SMT 3.81/04/180LF 1. ...	Version	Product data	Packaging
Order No.	1864090000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248429295	connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	1.5 mm, tinned, black, Box		
Type	SC-SMT 3.81/04/180LF 3. ...	Version	Product data	Packaging
Order No.	1863260000	PCB plug-in connector, male header, Solder flange, THT/THR solder	IEC: 320 V / 17.5 A	Box
GTIN (EAN)	4032248428458	connection, 3.81 mm, Number of poles: 4, 180°, Solder pin length (l):	UL: 300 V / 11 A	
Qty.	50 pc(s).	3.2 mm, tinned, black, Box		

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Accessories

Cover hoods



Effective protection, optimised ergonomics and closed design:

From the strain relief on the connected conductors and the visual/contact protection and the disconnection aid: the optional retrofit hoods perform mechanical, visual and haptic functions.

The two half shells clip together securely, enclose the plug completely and offer the following functions:

- Cable ties or integrated cable clips provide strain relief.
- Marked with dekafix labels or adhesive strips
- Mounting side by side without losing poles or displacing the pitch
- Compatible: suitable for plugs with or without a flange or mounting bracket
- Flexible: 1-3 cable outlets leading in different directions available depending on the size

Weidmüller hoods offer added stability, better identification, complete compatibility and versatility. The result: maximum reliability and user-friendliness in any application.

General ordering data

Type	BCZ 3.81 AH04 BK BX	Version	Product data	Packaging
Order No.	1005290000	PCB plug-in connector, Accessories, Hood, black, Number of poles: 4		Box
GTIN (EAN)	4032248752515			
Qty.	10 pc(s).			

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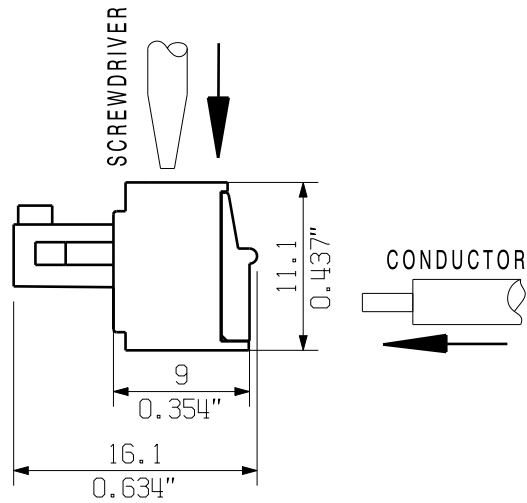
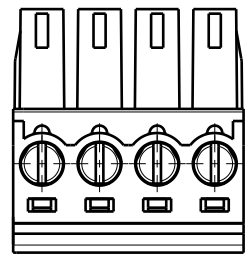
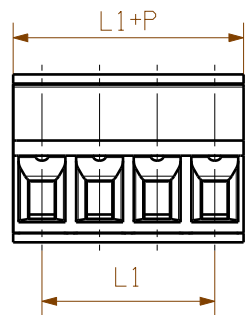
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Dimensions without tolerances are no check dimensions

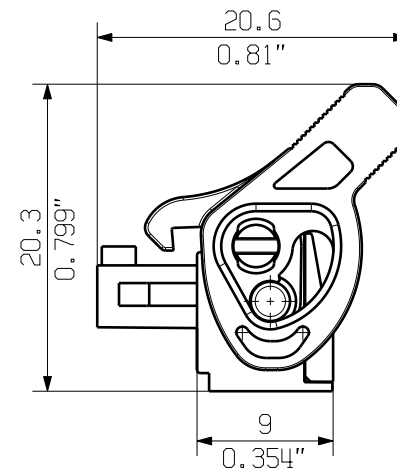
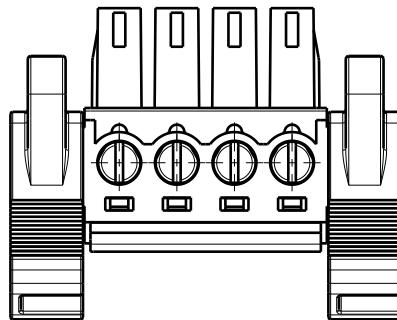
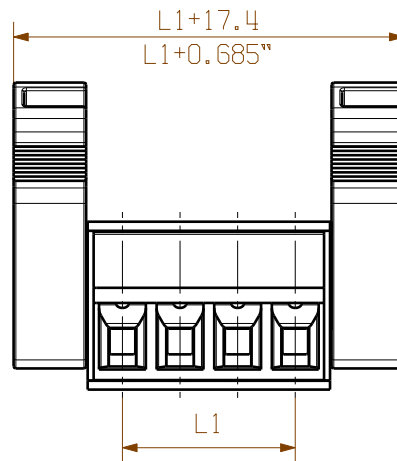
The English version is binding

10

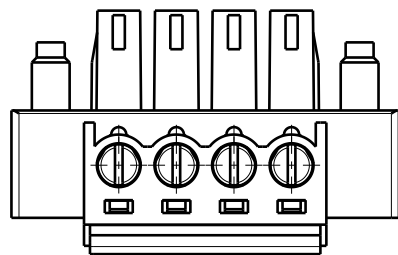
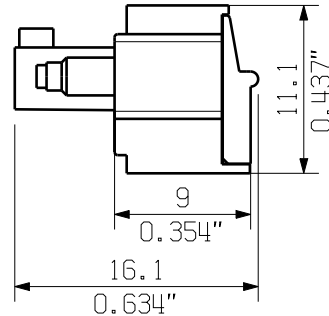
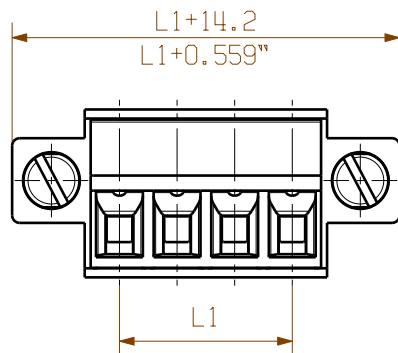
BCZ 3.81/.../180 ...



BCZ 3.81/.../180LR ...



BCZ 3.81/.../180F ...



KUNDENZEICHNUNG
CUSTOMER DRAWING

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 to 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		98178/5 16.10.17 MA_J		01	Weidmüller		C 40383 10	
RoHS COMPLIANT		Max. nos.		Modification		Drawing no. Issue no.		
Scale: 2/1		Supersedes: .		Drawn	21.02.2006	GU_D	Sheet 01 of 06 sheets	
				Responsible		MA_J		
				Checked	16.10.2017	ZHOU_N		
				Approved		XU_S		
BCZ 3.81/.../180 SN ... BUCHSENLEISTE SOCKET BLOCK							Product file: BCZ 3.81	
							7070	