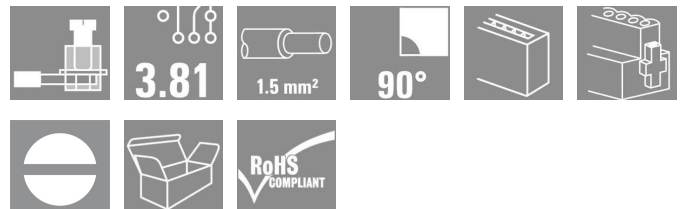


**OMNIMATE Signal - series BC/SC 3.81
BCZ 3.81/05/90F SN GN BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



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.

- 0.20 - 1.5 mm² (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

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

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Technical data**Dimensions and weights**

Net weight	5.6 g
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System parameters

Product family	OMNIMATE Signal - series BC/SC 3.81	Wire connection method	Clamping yoke connection
Conductor outlet direction	90°	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	No. of poles	5
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.2 Nm	Tightening torque, max.	0.25 Nm
Clamping screw	M 2	Stripping length	7 mm
L1 in mm	15.24 mm	L1 in inches	0.6 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	PA GF	Colour	Pale green
Colour chart (similar)	RAL 6021	UL 94 flammability rating	V-0
CTI	≥ 550	Contact material	Cu-Leg
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

Connectable conductors

Clamping range, rated connection, min.	0.08 mm ²	Clamping range, rated connection, 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. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	2.4 mm x 1.5 mm ; 2.4 mm		

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	17.5 A	Rated current, max. no. of poles (Tu=20°C)	15.9 A
Rated current, number of poles (Tu=40°C), min	17.5 A	Rated current, number of poles (Tu=40°C), max.	14.1 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		

Data sheet

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BCZ 3.81/05/90F SN GN BX**

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Technical data

CSA rating data

Institute (CSA)



Rated voltage (Use group B)

300 V

Rated current (use group B) 10 A

Rated voltage (use group D) 300 V

Rated current (use group D) 10 A

Wire cross-section, AWG, min. AWG 28

Wire cross-section, AWG, max. AWG 16

UL 1059 rating data

Rated voltage (use group B) 300 V

Rated current (use group B) 10 A

Rated voltage (use group D) 300 V

Rated current (use group D) 10 A

Wire cross-section, AWG, min. AWG 28

Wire cross-section, AWG, max. AWG 16

Classifications

ETIM 3.0

EC001284

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

Notes

Notes

- Additional colours on request
- 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.

Approvals

Approvals



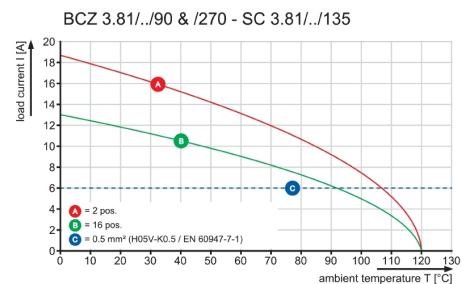
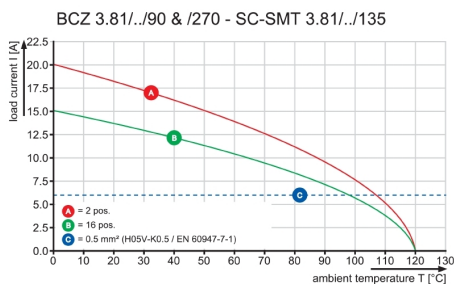
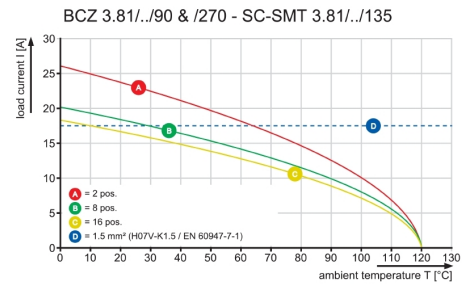
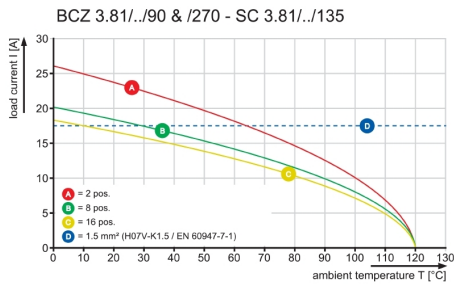
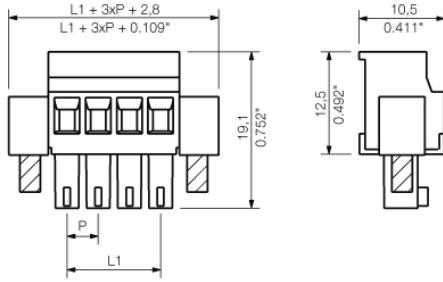
ROHS

Conform

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Drawings



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Mating connector (fully 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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/180LF 3.2SN BK BX	1863280000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248428465	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
SC-SMT 3.81/05/180LF 1.5SN BK BX	1864100000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248429301	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box

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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/90LF 3.2SN BK RL	1863990000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5,	4032248429233	400 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Tape

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Mating connector (fully pluggable)

SC-SMT	1862790000	90°, Solder pin length (l): 3.2 mm, tinned, Black, Tape	PCB plug-in connector, 4032248427970 400 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Tape
3.81/05/90LF		male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape			
1.5SN BK RL					

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.

- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC	1793730000	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248230853 50 pc(s).		IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
3.81/05/180F						
3.2SN BK BX						
SC	1943210000	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4032248654383 50 pc(s).		IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
3.81/05/180F						
3.2SN OR BX						
SC	1793820000	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box	4032248230945 50 pc(s).		IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
3.81/05/180F						
3.2SN GN BX						

OMNIMATE Signal - series BC/SC 3.81 BCZ 3.81/05/90F SN GN BX

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Mating connector (fully 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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/180LF 1.5SN BK RL	1864250000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape	4032248429554	300 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Tape
SC-SMT 3.81/05/180LF 3.2SN BK RL	1863580000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Tape	4032248428816	300 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Tape

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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/90LF 1.5SN BK BX	1862600000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5,	4032248427567	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box

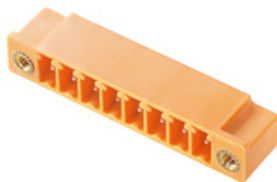
**OMNIMATE Signal - series BC/SC 3.81
BCZ 3.81/05/90F SN GN BX**

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Mating connector (fully pluggable)

90°, Solder pin length (l):
1.5 mm, tinned, Black, Box

SC-SMT 3.81/05/90LF 3.2SN BK BX	1863700000	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248428885 50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
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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.

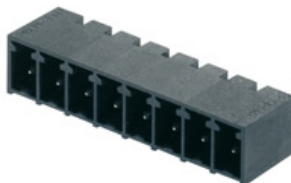
- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC 3.81/05/90F 3.2SN GN BX	1793450000	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box	4032248228720 50 pc(s).		IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
SC 3.81/05/90F 3.2SN BK BX	1793360000	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248228430 50 pc(s).		IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
SC 3.81/05/90F 3.2SN OR BX	1942480000	PCB plug-in connector, male header, Flange, Solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4032248655113 50 pc(s).		IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box

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Mating connector (conditionally pluggable)
SC-SMT 3.81/90G Tape


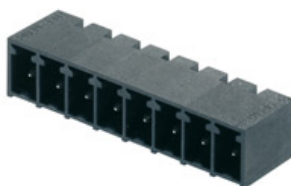
- High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)
- Plugging direction parallel to PCB (recumbent)
 - Closed (G)
 - Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
 - Pin length of either 1.5 mm or 3.2 mm

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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/90G 3.2SN BK RL	1862870000	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Tape	4032248427802	400 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Tape
SC-SMT 3.81/05/90G 1.5SN BK RL	1863170000	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape	4032248428366	400 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/90G 1.5SN BK BX	1862990000	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 90°	4032248428090	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box

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Mating connector (conditionally pluggable)

SC-SMT	1862500000	Solder pin length (l): 1.5 mm, tinned, Black, Box	PCB plug-in connector, male 4032248427635 50 pc(s).	IEC: 320 V / 17.5 A	Box
3.81/05/90G		header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box		UL: 300 V / 10 A	
3.2SN BK BX					

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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT	1863540000	PCB plug-in connector, male	4032248428588	300 pc(s).	IEC: 320 V / 17.5 A	Tape
3.81/05/180G		header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Tape			UL: 300 V / 10 A	
3.2SN BK RL						
SC-SMT	1864300000	PCB plug-in connector, male	4032248429370	300 pc(s).	IEC: 320 V / 17.5 A	Tape
3.81/05/180G		header, closed side, Reflow solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape			UL: 300 V / 10 A	
1.5SN BK RL						

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Mating connector (conditionally pluggable)
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.

- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC 3.81/05/90G 3.2SN OR BX	1942090000	PCB plug-in connector, male header, closed side, Solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4032248655496	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
SC 3.81/05/90G 3.2SN GN BX	1793270000	PCB plug-in connector, male header, closed side, Solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box	4032248227747	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
SC 3.81/05/90G 3.2SN BK BX	1793160000	PCB plug-in connector, male header, closed side, Solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248227655	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box

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.

- 320 V (IEC) / 300 V (UL)
- 14.9 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC-SMT 3.81/05/180G 3.2SN BK BX	1863010000	PCB plug-in connector, male header, closed side, Reflow solder connection, 3.81	4032248428144	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box

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**OMNIMATE Signal - series BC/SC 3.81
BCZ 3.81/05/90F SN GN BX**

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Germany
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Mating connector (conditionally pluggable)

		mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box		
SC-SMT	1863780000	PCB plug-in connector, male	4032248428922 50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A
3.81/05/180G		header, closed side, Reflow solder connection, 3.81		
1.5SN BK BX		mm, No. of poles: 5, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box		

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.

- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 10 A (UL)

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SC	1793640000	PCB plug-in connector, male	4032248230761	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
3.81/05/180G		header, closed side, Solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Pale green, Box				
3.2SN GN BX						
SC	1942870000	PCB plug-in connector, male	4032248654727	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
3.81/05/180G		header, closed side, Solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				
3.2SN OR BX						
SC	1793550000	PCB plug-in connector, male	4032248230464	50 pc(s).	IEC: 320 V / 17.5 A UL: 300 V / 10 A	Box
3.81/05/180G		header, closed side, Solder connection, 3.81 mm, No. of poles: 5, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box				
3.2SN BK BX						

