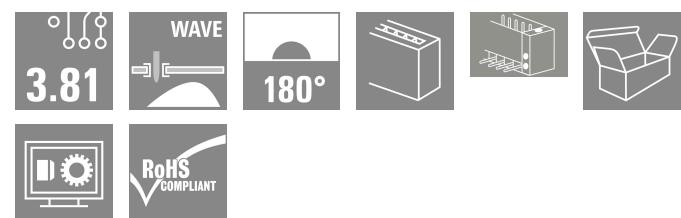
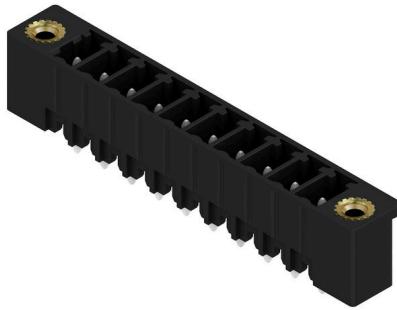


SC 3.81/10/180F 3.2SN BK BX

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

www.weidmueller.com

Product image

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

Version	PCB plug-in connector, male header, Flange, THT solder connection, 3.81 mm, Number of poles: 10, 180°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	1793760000
Type	SC 3.81/10/180F 3.2SN BK BX
GTIN (EAN)	4032248230884
Qty.	36 items
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A
Packaging	Box

SC 3.81/10/180F 3.2SN BK BX

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

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform
UL File Number Search [UL Website](#)
Certificate No. (cURus) E60693

Dimensions and weights

Depth	7.1 mm	Depth (inches)	0.2795 inch
Height	12.4 mm	Height (inches)	0.4882 inch
Height of lowest version	9.2 mm	Width	48.7 mm
Width (inches)	1.9173 inch	Net weight	3.54 g

Environmental Product Compliance

RoHS Compliance Status Compliant with exemption
RoHS Exemption (if applicable/known) 6c
REACH SVHC Lead 7439-92-1
SCIP [308576ca-4abc-409a-b0d0-6626109a7446](#)

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) 0.150 "
Outgoing elbow 180°
Number of poles 10
Number of solder pins per pole 1
Solder pin length (l) 3.2 mm
Solder pin length tolerance 0 / -0.2 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 34.29 mm
L1 in inches 1.350 "
Number of rows 1
Pin series quantity 1
Touch-safe protection acc. to DIN VDE finger-safe unplugged/ back-of-hand-safe plugged
57 106

Touch-safe protection acc. to DIN VDE IP20 plugged/ IP10 unplugged
0470

Volume resistance $\leq 5 \text{ m}\Omega$

Can be coded Yes

Plugging force/pole, max. 7 N

Pulling force/pole, max. 5 N

Tightening torque	Torque type Usage information	Mounting screw, PCB	
		Tightening torque	min. 0.1 Nm
		max. 0.15 Nm	Part number PTSC KA 2.2X4.5 WN1412

SC 3.81/10/180F 3.2SN BK BX

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

www.weidmueller.com

Technical data

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	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)	17.1 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number of poles (Tu=40°C)	17.1 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

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated current (Use group B / CSA)	11 A
Rated current (Use group D / CSA)	10 A		

Rated data acc. to UL 1059

Institute (cURus)	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)	11 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	350.00 mm
VPE width	138.00 mm	VPE height	33.00 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.
Notes	<ul style="list-style-type: none"> Additional variants 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 For additional mechanical support for male connectors with screw flange (...F), we recommend an additional cable gland with fastening screws (sheet metal screw ISO 1481-ST 2.2x4.5 C or ISO 7049-ST 2.2x4.5 C - see Accessories). Cable gland only permitted before soldering.

SC 3.81/10/180F 3.2SN BK BX

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

www.weidmueller.com

Technical data

- 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
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

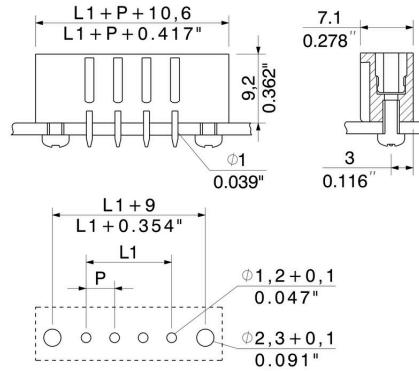
Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

SC 3.81/10/180F 3.2SN BK BX

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

www.weidmueller.com

Drawings**Product image****Dimensional drawing**

SC 3.81/10/180F 3.2SN BK BX

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

www.weidmueller.com

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.	2460700000	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.	2467670000	PCB plug-in connector, Accessories, Coding element, white
GTIN (EAN)	4050118494693	
Qty.	100 ST	