

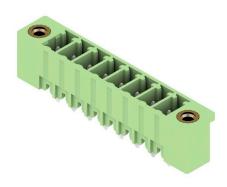


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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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: 8, 180°, Solder pin length (I): 3.2 mm, tinned, Pale green, Box	
Order No.	<u>1793840000</u>	
Туре	SC 3.81/08/180F 3.2SN GN BX	
GTIN (EAN)	4032248230969	
Qty.	42 items	
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A	
Packaging	Вох	





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Technical data

Approvals

Approvals	c F11 *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
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	41.08 mm
Width (inches)	1.6173 inch	Net weight	3.06 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	8				
Number of solder pins per pole	1				
Solder pin length (I)	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	26.67 mm				
L1 in inches	1.050 "				
Number of rows	1				
Pin series quantity	1				
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe	e plugged			
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged				
Volume resistance	≤5 mΩ				
Can be coded	Yes				
Plugging force/pole, max.	7 N				
Pulling force/pole, max.	5 N				
Tightening torque	Torque type	Mounting screw, PCB			
	Usage information	Tightening torque	min.	0.1 Nm	
			max.	0.15 Nm	
		Recommended screw	Part	PTSC KA	
			number	2.2X4.5	
				<u>WN1412</u>	

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Catalogue status / Drawings 2





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Technical data

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Insulating material	PA GF	Colour	Pale green
Colour chart (similar)	RAL 6021	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	352.00 mm
VPE width	140.00 mm	VPE height	32.00 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	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.

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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 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		



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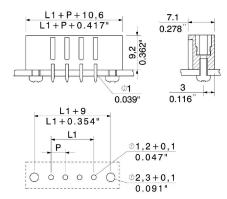
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Drawings

Product image



Dimensional drawing





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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

Туре	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	
Туре	SC-SMT 3.81 KO WT BX	Version
Order No.	2467670000	PCB plug-in connector, Accessories, Coding element, white
Order No. GTIN (EAN)	2467670000 4050118494693	PCB plug-in connector, Accessories, Coding element, white