

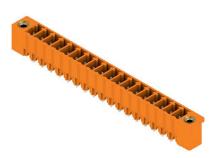


Weidmüller Interface GmbH & Co. KG

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: 18, 180°, Solder pin length (I): 3.2 mm, tinned, orange, Box	
Order No.	<u>1943340000</u>	
Туре	SC 3.81/18/180F 3.2SN OR BX	
GTIN (EAN)	4032248654253	
Qty.	24 items	
Product data	IEC: 320 V / 17.5 A UL: 300 V / 11 A	
Packaging	Вох	



### SC 3.81/18/180F 3.2SN OR BX



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# **Technical data**

### **Approvals**

Approvals



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	79.18 mm
Width (inches)	3.1173 inch	Net weight	5.26 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	18			
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)+ 0,1 mm			
L1 in mm	64.77 mm			
L1 in inches	2.550 "			
Number of rows	1			
Pin series quantity	1			
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugg	ged		
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

Creation date 30.11.2025 03:05:45 MEZ

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# **Technical data**

			Recommended scre	Part number	PTSC KA 2.2X4.5 WN1412	
Material data						
Insulating material	PA GF	Colour		orange		
Colour chart (similar)	RAL 2000	Insulating material g	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		-40 °C		
Storage temperature, max.	70 °C	Operating temperate		-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 17.5 A		17.5 A		
Rated current, max. number of poles (Tu=20°C)	17.1 A			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		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	6 A	
Rated data acc. to CSA						
Institute (CSA)	CSA	Certificate No. (CSA	1	200039-112	1600	
Rated voltage (Use group B / CSA)	300 V		·	11 A	1030	
Rated current (Use group D / CSA)	10 A	Rated current (Use group B / CSA) Reference to approval values		Specifications maximum valuesee approval of	ues, details	
Rated data acc. to UL 1059						
In atituta (al IDua)	CLIPLIC	Cautificate No. /-UD		F60602		
Institute (cURus)	CURUS 300 V	Certificate No. (cUR		E60693 300 V		
Rated voltage (Use group B / UL 1059)			group D / UL 1059)			
Rated current (Use group B / UL 1059) Reference to approval values	11 A Specifications are maximum values, details - see approval certificate.	nated current (Use (	group D / UL 1059)	10 A		

### **Packing**

Packaging	Box	VPE length	32.00 mm
VPE width	92.00 mm	VPE height	155.00 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

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## **Technical data**

- 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.
- 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**

EC002637	ETIM 7.0	EC002637
EC002637	ETIM 9.0	EC002637
EC002637	ECLASS 9.0	27-44-04-02
27-44-04-02	ECLASS 10.0	27-44-04-02
27-46-02-01	ECLASS 12.0	27-46-02-01
27-46-02-01	ECLASS 14.0	27-46-02-01
27-46-02-01		
	EC002637 EC002637 27-44-04-02 27-46-02-01 27-46-02-01	EC002637 ETIM 9.0 EC002637 ECLASS 9.0 27-44-04-02 ECLASS 10.0 27-46-02-01 ECLASS 12.0 27-46-02-01 ECLASS 14.0

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# **Drawings**

### **Product image**



### **Dimensional drawing**

