

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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High-temperature-resistant male header, 3.50 mm pitch.

- Plugging direction parallel (90°), straight 180° or angled (135°) to PCB
- Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)
- Optimised for the SMT process
- Pin length 3.2 mm universal for all soldering methods
- Pin length 1.5 mm optimised for reflow soldering methods
- Packed either in a box (BX) or tape-on-reel (RL)
- Male header can be coded

General ordering data

Version	PCB plug-in connector, male header, Flange, THT/ THR solder connection, 3.50 mm, Number of poles: 20, 135°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>1003700000</u>
Туре	SL-SMT 3.50/20/135F 3.2SN BK BX
GTIN (EAN)	4032248700325
Qty.	24 items
Product data	IEC: 320 V / 15 A UL: 300 V / 10 A
Packaging	Вох





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Technical data

Approvals	Αp	pr	ov	als	S
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Approvals	
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ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Depth	13.2 mm	Depth (inches)	0.5197 inch
Height	16.2 mm	Height (inches)	0.6378 inch
Height of lowest version	13 mm	Width	77 mm
Width (inches)	3.0315 inch	Net weight	7.3 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,072 kg CO2 eq.

System specifications

System specifications				
Product family	OMNIMATE Signal - series BL/SL 3.50			
Type of connection	Board connection			
Mounting onto the PCB	THT/THR solder connection			
Pitch in mm (P)	3.50 mm			
Pitch in inches (P)	0.138 "			
Outgoing elbow	135°			
Number of poles	20			
Number of solder pins per pole	1			
Solder pin length (I)	3.2 mm			
Solder pin dimensions	d = 1.2 mm, Octagonal			
Solder eyelet hole diameter (D)	1.3 mm			
Solder eyelet hole diameter tolerance (I	0)+ 0,1 mm			
Outside diameter of solder pad	2.3 mm			
Template aperture diameter	2.1 mm			
L1 in mm	66.50 mm			
L1 in inches	2.618 "			
Number of rows	1			
Pin series quantity	1			
Touch-safe protection acc. to DIN VDE 57 106	finger-safe plugged/ back-of-hand-safe unplugg	jed		
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged			
Protection degree	IP10			
Volume resistance	≤5 mΩ			
Plugging cycles	25			
Plugging force/pole, max.	10 N			
Pulling force/pole, max.	8 N			
Tightening torque	Torque type	Mounting screw, PCB		
	Usage information	Tightening torque	min.	0.1 Nm
			max.	0.15 Nm

Catalogue status / Drawings 2







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Technical data

Technical data					
			Recommended scre	Part number	PTSC KA 2.2X4.5 WN1412
Material data				ı	
aculating material	LCBCE	Colour		black	
nsulating material Colour chart (similar)	RAL 9011	Colour Insulating material		Illa	
Comparative Tracking Index (CTI)	NAL 9011 ≥ 175	Moisture Level (MS			
JL 94 flammability rating	V-0	Contact material	oL)	Cu-allov	
Contact surface	tinned	Layer structure of s	solder connection	24 µm Ni / ! glossy	58 µm Sn
ayer structure of plug contact	24 μm Ni / 58 μm Sn glossy	Storage temperatu	re, min.	-40 °C	
Storage temperature, max.	70 °C	Operating tempera	ture, min.	-50 °C	
Operating temperature, max.	100 °C	Temperature range	, installation, min.	-30 °C	
emperature range, installation, max.	100 °C				
Rated data acc. to IEC				_	
ested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. (Tu=20°C)	number of poles	15 A	
Rated current, max. number of poles Tu=20°C)	12 A	Rated current, min. (Tu=40°C)	number of poles	13 A	
Rated current, max. number of poles Tu=40°C)	10 A	Rated voltage for spollution degree II/	urge voltage class / '2	320 V	
Rated voltage for surge voltage class / pollution degree III/2	160 V	pollution degree III		160 V	
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse volta class/ pollution de	age for surge voltage gree III/2	2.5 kV	
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV				
Rated data acc. to CSA					
Detection to the confidence (Line constant B. (CCA)	200.1/	Detector la contra con / Lland	D (CCA)	2001/	
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use		300 V	
Rated current (Use group B / CSA)	10 A	Rated current (Use	group D / CSA)	10 A	
Rated data acc. to UL 1059					
nstitute (UR)	UR	Certificate No. (UR)	E60693	
ated 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		group D / UL 1059)		
Reference to approval values	Specifications are maximum values, details - see approval certificate.	<u> </u>	,		
Packing					
) (DE 1		222.22	
Packaging	Box	VPE length		338.00 mm	
/PE width	130.00 mm	VPE height		20.00 mm	
mportant note					
PC conformity	Conformity: The products ar	e developed, manufac	ctured and delivered a	accordina interi	national
. 5 55 	recognized standards and no fulfill decorative properties in can be evaluated on request	orms and comply with n accordance with IPO	n the assured properti	ies in the data s	sheet resp.
Votes	Gold-plated contact surface				
	Rated current related to ra		nin. No. of poles.		

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Catalogue status / Drawings



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Technical data

- Diameter of solder eyelet D = 1.4+0.1mm
- Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles
- 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.
- 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
- \bullet Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

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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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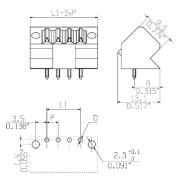
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Drawings

Product image



Dimensional drawing



LAYOUT FINISHED HOLES

Similar to illustration

Example of use





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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	BL SL 3.5 KO OR	Version
Order No.	<u>1693430000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190867447	of poles: 1
Qty.	100 ST	
Туре	BL SL 3.5 KO SW	Version
Type Order No.	BL SL 3.5 KO SW 1610100000	Version PCB plug-in connector, Accessories, Coding element, black, Number
• •		
Order No.	<u>1610100000</u>	PCB plug-in connector, Accessories, Coding element, black, Number