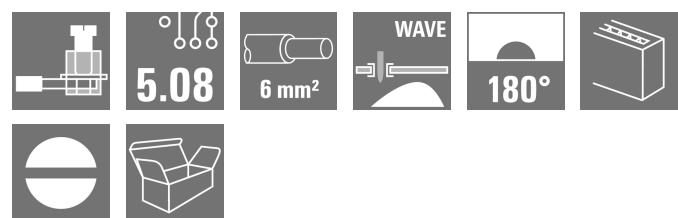
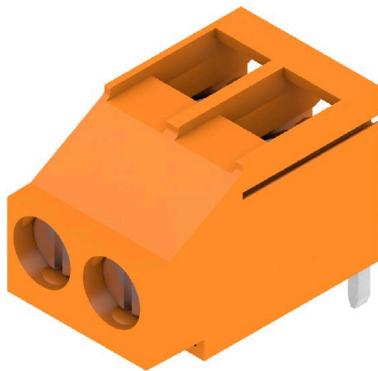


LL 5.08/02/180 4.5SN OR BX

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

www.weidmueller.com

Product image



This PCB terminal provides connections for 32 A and 6 mm² conductor cross-section with the proven clamping-yoke connection, in 5.00 and 5.08 mm pitch. 90° conductor outlet direction.

General ordering data

Version	Printed circuit board terminals, 5.08 mm, Number of poles: 2, 180°, Solder pin length (l): 4.5 mm, tinned, orange, Clamping yoke connection, Clamping range, max. : 6 mm ² , Box
Order No.	2566990000
Type	LL 5.08/02/180 4.5SN OR BX
GTIN (EAN)	4050118608618
Qty.	168 items
Product data	IEC: 500 V / 32.5 A / 0.5 - 6 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	17.1 mm	Depth (inches)	0.6732 inch
Height	15.5 mm	Height (inches)	0.6102 inch
Height of lowest version	11 mm	Width	10.81 mm
Width (inches)	0.4256 inch	Net weight	3.3 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System parameters

Product family	OMNIMATE Signal - series LL	Wire connection method	Clamping yoke connection
Property, clamping point	WireReady	Mounting onto the PCB	THT solder connection
Conductor outlet direction	180°	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Number of poles	2
Pin series quantity	1	Fitted by customer	Yes
Number of rows	1	Max. adjacent poles per row	24
Solder pin length (l)	4.5 mm	Solder pin dimensions	0.75 x 0.9 mm
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)+ 0.1 mm	
Number of solder pins per pole	1	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.6 Nm	Clamping screw	M 3
Stripping length	6 mm	L1 in mm	5.08 mm
L1 in inches	0.200 "	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Protection degree	IP20
Volume resistance	1.20 mΩ		

Material data

Insulating material	Wemid (PA)	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Coating	4-6 µm SN
Tinning type	matt	Layer structure of solder connection	4...6 µm Sn matt
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

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Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	6 mm ²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm; 3.0 mm
Clampable conductor	Cross-section for conductor connection
	Type fine-wired
	nominal 0.5 mm ²
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule H0,5/12 OR
	Stripping length nominal 6 mm
	Recommended wire-end ferrule H0,5/6
	Cross-section for conductor connection
	Type fine-wired
	nominal 0.75 mm ²
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule H0,75/12 W
	Stripping length nominal 6 mm
	Recommended wire-end ferrule H0,75/6
	Cross-section for conductor connection
	Type fine-wired
Reference text	nominal 1 mm ²
	wire end ferrule
	Stripping length nominal 8 mm
	Recommended wire-end ferrule H1,0/12 GE
	Stripping length nominal 6 mm
	Recommended wire-end ferrule H1,0/6
	Length of ferrules is to be chosen depending on the product and the rated voltage.. The outside diameter of the plastic collar should not be larger than the pitch (P)

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	32.5 A
Rated current, max. number of poles (Tu=20°C)	26 A	Rated current, min. number of poles (Tu=40°C)	27.5 A
Rated current, max. number of poles (Tu=40°C)	22 A	Rated voltage for surge voltage class / pollution degree II/2	500 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V

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Technical data

Rated impulse voltage for surge voltage 4 kV
class/ pollution degree II/2

Rated impulse voltage for surge voltage 4 kV
class/ contamination degree III/3

Rated impulse voltage for surge voltage 4 kV
class/ pollution degree III/2

Short-time withstand current resistance 3 x 1s with 120 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA) 300 V
Rated current (Use group B / CSA) 20 A
Wire cross-section, AWG, min. AWG 26

Rated voltage (Use group D / CSA) 300 V
Rated current (Use group D / CSA) 10 A
Wire cross-section, AWG, max. AWG 12

Rated data acc. to UL 1059

Institute (UR) UR
Rated voltage (Use group B / UL 1059) 300 V
Rated current (Use group B / UL 1059) 20 A
Wire cross-section, AWG, min. AWG 26
Reference to approval values Specifications are maximum values, details - see approval certificate.

Certificate No. (UR) E60693
Rated voltage (Use group D / UL 1059) 300 V
Rated current (Use group D / UL 1059) 10 A
Wire cross-section, AWG, max. AWG 12

Packing

Packaging Box
VPE width 130.00 mm

VPE length 355.00 mm
VPE height 20.00 mm

Type tests

Test: Durability of markings	Test	mark of origin, type identification, type of material, approval marking UL, approval marking CSA, durability
	Evaluation	available
Test: Clampable cross section	Standard	IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11
	Conductor type	Type of conductor solid 0.14 mm ² and conductor cross-section
		Type of conductor stranded 0.14 mm ² and conductor cross-section
		Type of conductor H07V-U4.0 and conductor cross-section
		Type of conductor H07V-K4 and conductor cross-section
		Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
		Type of conductor AWG 12/1 and conductor cross-section
		Type of conductor AWG 12/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental loosening of conductors	Standard	IEC 60999-1 section 9.4 / 11.99
	Requirement	0.2 kg

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Technical data

Conductor type	Type of conductor and conductor cross-section	AWG 26/1
	Type of conductor and conductor cross-section	AWG 26/19
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor and conductor cross-section H05V-U0.5
		Type of conductor and conductor cross-section H05V-K0.5
	Evaluation	passed
	Requirement	0.9 kg
	Conductor type	Type of conductor and conductor cross-section H07V-U4.0
		Type of conductor and conductor cross-section H07V-K4.0
Pull-out test	Type of conductor and conductor cross-section	AWG 12/1
	Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed
	Standard	IEC 60999-1 section 9.5 / 11.99
	Requirement	≥10 N
	Conductor type	Type of conductor and conductor cross-section AWG 26/1
		Type of conductor and conductor cross-section AWG 26/19
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor and conductor cross-section H05V-U0.5
Conductor type		Type of conductor and conductor cross-section H05V-K0.5
	Evaluation	passed
	Requirement	≥60 N
	Conductor type	Type of conductor and conductor cross-section H07V-U4.0
		Type of conductor and conductor cross-section H07V-K4.0
	Evaluation	passed
	Requirement	≥120 N
	Conductor type	Type of conductor and conductor cross-section AWG 12/1
		Type of conductor and conductor cross-section AWG 12/19
	Evaluation	passed

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Technical data**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">• Rated current related to rated cross-section & min. No. of poles.• 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.• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

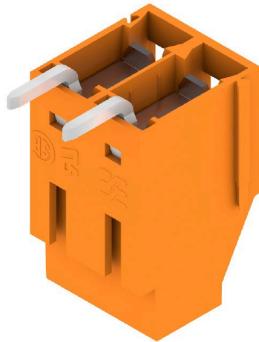
Classifications

ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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