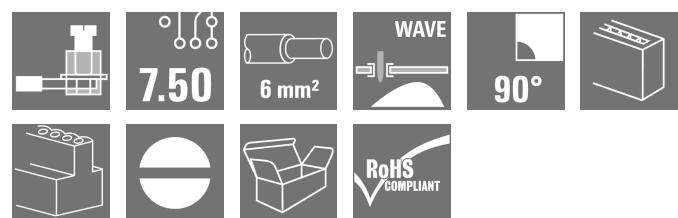
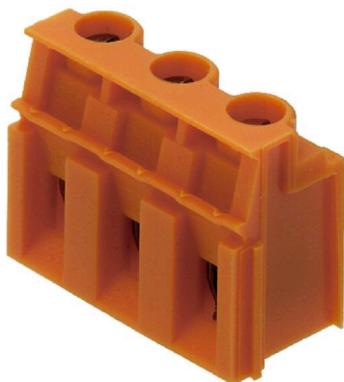


**LP 7.50/03/90 4.5SN OR BX**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Product image**

## Similar to illustration

This PCB terminal provides connections for 1000 V, 6 mm<sup>2</sup> conductor cross-section and 32 A with proven clamping yoke connection at 7.50 mm and 7.62 mm pitch, conductor outlet direction in 90° and 180° design.

**General ordering data**

Version	Printed circuit board terminals, 7.50 mm, Number of poles: 3, 90°, Solder pin length (l): 4.5 mm, tinned, orange, Clamping yoke connection, Clamping range, max. : 6 mm <sup>2</sup> , Box
Order No.	<a href="#">1594630000</a>
Type	LP 7.50/03/90 4.5SN OR BX
GTIN (EAN)	4008190159443
Qty.	100 items
Product data	IEC: 1000 V / 32 A / 0.5 - 6 mm <sup>2</sup> 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	<a href="#">UL Website</a>
Certificate No. (UR)	E60693

## Dimensions and weights

Depth	19 mm	Depth (inches)	0.748 inch
Height	15.5 mm	Height (inches)	0.6102 inch
Height of lowest version	11 mm	Width	23.1 mm
Width (inches)	0.9094 inch	Net weight	5.28 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 LP	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	7.50 mm	Pitch in inches (P)	0.295 "
Number of poles	3	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	16	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	15.00 mm	L1 in inches	0.591 "
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	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-2	Contact material	Cu-alloy
Contact surface	tinned	Coating	1-3 µm Ni, 4-6 µm SN
Tinning type	matt	Layer structure of solder connection	4...6 µm Ni / 4...6 µm Sn
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

## Conductors suitable for connection

Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>

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## Technical data

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<sup>2</sup>

Solid, max. H05(07) V-U 6 mm<sup>2</sup>

Stranded, max. H07V-R 6 mm<sup>2</sup>

Flexible, min. H05(07) V-K 0.5 mm<sup>2</sup>

Flexible, max. H05(07) V-K 4 mm<sup>2</sup>

w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm<sup>2</sup> min.

w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm<sup>2</sup> max.

w. wire end ferrule, DIN 46228 pt 1, 0.5 mm<sup>2</sup> min.

w. wire end ferrule, DIN 46228 pt 1, 2.5 mm<sup>2</sup> max.

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 <sup>2</sup>
wire end ferrule	Stripping length	nominal 8 mm
	Recommended wire-end ferrule	<a href="#">H0.5/12 OR</a>
	Stripping length	nominal 6 mm
	Recommended wire-end ferrule	<a href="#">H0.5/6</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	0.75 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 8 mm
	Recommended wire-end ferrule	<a href="#">H0.75/12 W</a>
	Stripping length	nominal 6 mm
	Recommended wire-end ferrule	<a href="#">H0.75/6</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	1 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 8 mm
	Recommended wire-end ferrule	<a href="#">H1.0/12 GE</a>
	Stripping length	nominal 6 mm
	Recommended wire-end ferrule	<a href="#">H1.0/6</a>

Reference text

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 A

Rated current, max. number of poles (Tu=20°C) 32 A

Rated current, min. number of poles (Tu=40°C) 32 A

Rated current, max. number of poles (Tu=40°C) 30.5 A

Rated voltage for surge voltage class / pollution degree II/2 1000 V

Rated voltage for surge voltage class / pollution degree III/2 500 V

Rated voltage for surge voltage class / pollution degree III/3 500 V

Rated impulse voltage for surge voltage class/ pollution degree II/2 6 kV

Rated impulse voltage for surge voltage class/ pollution degree III/2 6 kV

Rated impulse voltage for surge voltage class/ contamination degree III/3 6 kV

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

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## Technical data

## Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1202191
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	20 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	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)	20 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Packing

Packaging	Box	VPE length	145.00 mm
VPE width	115.00 mm	VPE height	65.00 mm

## Type tests

Test: Durability of markings	Standard	DIN EN 60512-1-1 / 01.03
	Test	mark of origin, type identification, rated voltage, rated cross-section, pitch, approval marking SEV, durability
	Evaluation	available
Test: Clampable cross section	Standard	DIN EN 60947-1 section 8.2.4.5.1 / 07.98, DIN EN 60999 section 6 and 8.1 / 04.94
	Conductor type	Type of conductor solid 0,12 mm <sup>2</sup> and conductor cross-section
		Type of conductor flexible 0,12 mm <sup>2</sup> and conductor cross-section
		Type of conductor flexible 4 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 6 mm <sup>2</sup> 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	DIN EN 60999 section 8.4 / 04.94
	Requirement	0.2 kg

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## Technical data

Pull-out test	Conductor type	Type of conductor and conductor cross-section	AWG 24/1
		Type of conductor and conductor cross-section	AWG 24/19
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm <sup>2</sup>
		Type of conductor and conductor cross-section	stranded 0.5 mm <sup>2</sup>
	Evaluation	passed	
	Requirement	0.9 kg	
	Conductor type	Type of conductor and conductor cross-section	flexible 4 mm <sup>2</sup>
		Type of conductor and conductor cross-section	AWG 12/1
Pull-out test		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	
	Requirement	1.4 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 6 mm <sup>2</sup>
		Type of conductor and conductor cross-section	
	Evaluation	passed	
	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	
Pull-out test	Requirement	≥30 N	
	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	≥60 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-K4
		Type of conductor and conductor cross-section	AWG 12/1
	Evaluation	passed	
	Requirement	≥80 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 12/19
Creation date 01.01.2026 03:46:07 MEZ	Evaluation	passed	
	Requirement	≥80 N	
Catalogue status / Drawings	Conductor type	Type of conductor and conductor cross-section	H07V-U6
		Type of conductor and conductor cross-section	

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	Evaluation	passed
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**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"><li>• Additional variants on request</li><li>• Rated current related to rated cross-section &amp; min. No. of poles.</li><li>• Wire end ferrule without plastic collar to DIN 46228/1</li><li>• Wire end ferrule with plastic collar to DIN 46228/4</li><li>• P on drawing = pitch</li><li>• 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.</li><li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li></ul>

**Classifications**

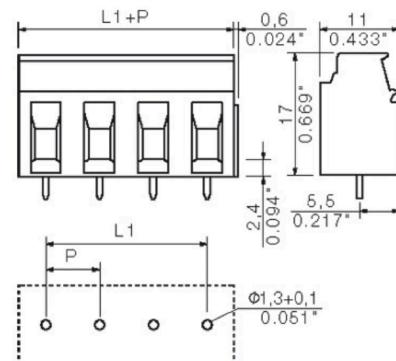
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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**Drawings**

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**Dimensional drawing****Graph**