

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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## **Product image**























Similar to illustration

This PCB terminal provides connections for 1000 V, 6 mm² 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**

tinned, black, Clamping yoke connection, Clamping range, max.: 6 mm², Box  Order No. 1697220000  Type LP 7.50/02/90 4.5SN BK BX  GTIN (EAN) 4008190880408  Oty. 100 items  Product data IEC: 1000 V / 32 A / 0.5 - 6 mm² UL: 300 V / 20 A / AWG 26 - AWG 12		
ber of poles: 2, 90°, Solder pin length (I): 4.5 mm tinned, black, Clamping yoke connection, Clamping range, max. : 6 mm², Box  Order No. 1697220000  Type LP 7.50/02/90 4.5SN BK BX  GTIN (EAN) 4008190880408  Oty. 100 items  Product data IEC: 1000 V / 32 A / 0.5 - 6 mm² UL: 300 V / 20 A / AWG 26 - AWG 12		
Type LP 7.50/02/90 4.5SN BK BX GTIN (EAN) 4008190880408 Qty. 100 items Product data IEC: 1000 V / 32 A / 0.5 - 6 mm² UL: 300 V / 20 A / AWG 26 - AWG 12	Version	ber of poles: 2, 90°, Solder pin length (I): 4.5 mm, tinned, black, Clamping yoke connection, Clamp-
GTIN (EAN) 4008190880408  Oty. 100 items  Product data IEC: 1000 V / 32 A / 0.5 - 6 mm²  UL: 300 V / 20 A / AWG 26 - AWG 12	Order No.	<u>1697220000</u>
Oty.         100 items           Product data         IEC: 1000 V / 32 A / 0.5 - 6 mm²           UL: 300 V / 20 A / AWG 26 - AWG 12	Туре	LP 7.50/02/90 4.5SN BK BX
Product data IEC: 1000 V / 32 A / 0.5 - 6 mm <sup>2</sup> UL: 300 V / 20 A / AWG 26 - AWG 12	GTIN (EAN)	4008190880408
UL: 300 V / 20 A / AWG 26 - AWG 12	Qty.	100 items
	Product data	· · · · · · · · · · · · · · · · · · ·
Packaging Box	Packaging	Вох



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# **Technical data**

## **Approvals**

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
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	15.6 mm
Width (inches)	0.6142 inch	Net weight	3.54 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	2	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	16	Solder pin length (I)	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	7.50 mm	L1 in inches	0.295 "
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	black
Colour chart (similar)	RAL 9011	Insulating material group	1
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	46 µm Ni / 46 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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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 mm²	
Stranded, max. H07V-R	6 mm²	
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>	
Flexible, max. H05(07) V-K	4 mm²	
w. plastic collar ferrule, DIN 46228 pt 4 min.	l, 0.5 mm²	
w. plastic collar ferrule, DIN 46228 pt 4 max.	l, 2.5 mm²	
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm <sup>2</sup>	
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm <sup>2</sup>	
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- H0,5/12 OR end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H0,5/6 end ferrule
	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- H0,75/12 W end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H0,75/6 end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- H1.0/12 GE end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H1,0/6 end ferrule
Reference text	Length of ferrules is to be chosen depending of	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
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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	120.00 mm
VPE width	105.00 mm	VPE height	62.00 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	Standard	DIN EN 60999 section 8.4 / 04.94
loosening of conductors	Requirement	0.2 kg

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# **Technical data**

Conductor type	Type of conductor and conductor cross-	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 mm²
	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
	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 mm²
Evaluation	passed	
Standard	DIN EN 60999 section	8.5 / 04.94
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	≥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
	Type of conductor and conductor cross-section	AWG 12/19
Evaluation	passed	
Requirement	≥80 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U6
	<del>-</del>	

Pull-out test





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# **Technical data**

	Evaluation	passed	
Important note			
IPC conformity	recognized standards	and norms and comply with the asserties in accordance with IPC-A-610	nd delivered according international sured properties in the data sheet resp. "Class 2". Further claims on the products
Notes	<ul> <li>Wire end ferrule wi</li> <li>Wire end ferrule wi</li> <li>P on drawing = pito</li> <li>Rated data refer on components are to</li> <li>It is necessary to he screw</li> </ul>	ed to rated cross-section & min. No. of thout plastic collar to DIN 46228/1 th plastic collar to DIN 46228/4 th by to the component itself. Clearance be designed in accordance with the bld the insulating body of the one or	e and creepage distances to other
Classifications	'		
ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 9.0	27-44-04-01
ECLASS 9.1	27-44-04-01	ECLASS 10.0	27-44-04-01
ECLASS 11.0	27-46-01-01	ECLASS 12.0	27-46-01-01
ECLASS 13.0	27-46-01-01	ECLASS 14.0	27-46-01-01



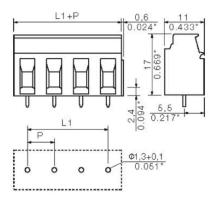
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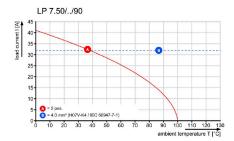
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# **Drawings**

## **Dimensional drawing**



### Graph





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# Accessories

### **Mounting blocks**



Minor component, major effect:

Clip-on attachment elements increase the mechanical resilience of the circuit board terminals.

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

#### **General ordering data**

Туре	LPBB MU OR	Version
Order No.	<u>1747530000</u>	Printed circuit board terminals, Accessories, Mounting block, orange,
GTIN (EAN)	4008190992217	Number of poles: 1
Qty.	100 ST	
Туре	LPBB OR	Version
Type Order No.	LPBB OR 1747540000	Version Printed circuit board terminals, Accessories, Mounting block, orange,

#### **Isolating elements**



Efficient isolation - safe inspections:

The isolating element isolates the current circuits directly at the clamping point and is easy to retrofit - one of the most versatile and efficient terminal printing systems with 5mm pitch: the LP-series by Weidmüller.

Suitable for direct installation on the back of terminals.

- Enclosed safe from finger touch
- 2 in 1 marking holder for labelling circuit numbers and fuses
- Attachment profile for Dekafix markers

Clear assignment of isolating elements to the correct conductor outlet enables thorough maintenance and inspections.

Safety in compact form - for the service technician and application components.

#### **General ordering data**

Туре	LPA TR STI3.2 OR	Version
Order No.	1495460000	Printed circuit board terminals, Accessories, Spacer, orange, Number
GTIN (EAN)	4008190044688	of poles: 1
Qty.	100 ST	
Туре	LPA TR STI4.5 OR	Version
Type Order No.	LPA TR STI4.5 OR 1495560000	Version Printed circuit board terminals, Accessories, Spacer, orange, Number

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