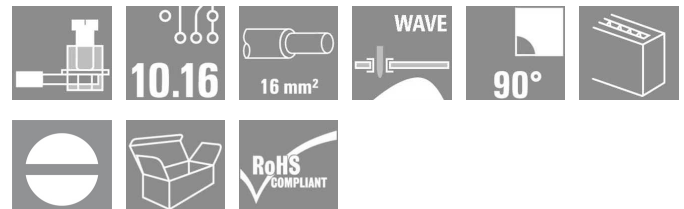


OMNIMATE Power - series LU LU 10.16/05/90 4.5SN GY BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



This PCB terminal provides connections for 76 A and 16 mm² conductor cross-section with proven clamping yoke connection at 10.16 mm pitch, conductor outlet direction in 90° design.

- 0.50 - 16.0mm² (IEC) / 26 - 6 AWG (UL)
- 1000 V (IEC) / 300 V (UL)
- 76A (IEC) / 60 A (UL)

General ordering data

Type	LU 10.16/05/90 4.5SN GY BX
Order No.	9956400000
Version	PCB terminal, 10.16 mm, No. of poles: 5, 90°, Solder pin length (l): 4.5 mm, tinned, Pebble grey, Clamping yoke connection, Clamping range, rated connection, max.: 16 mm ² , Box
GTIN (EAN)	4032248347322
Qty.	20 pc(s).
Product data	IEC: 1000 V / 76 A / 0.5 - 16 mm ² UL: 300 V / 65 A / AWG 26 - AWG 6
Packaging	Box

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Technical data
Dimensions and weights

Net weight 47.5 g

System characteristics

Product family	OMNIMATE Power - series LU	Wire connection method	Clamping yoke connection
Mounting onto the PCB	Solder connection	Conductor outlet direction	90°
Pitch in mm (P)	10.16 mm	Pitch in inches (P)	0.4 inch
No. of poles	5	Fitted by customer	Yes
Max. adjacent poles per row	10	Solder pin length (l)	4.5 mm
Solder eyelet hole diameter (D)	1.6 mm	Solder eyelet hole diameter tolerance (D)+	0,1 mm
Number of solder pins per pole	2	Screwdriver blade	1.0 x 5.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	1.2 Nm
Tightening torque, max.	1.5 Nm	Clamping screw	M 4
Stripping length	12 mm	L1 in mm	40.64 mm
L1 in inches	1.6 inch	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

Material data

Insulating material	Wemid (PA)	Colour	Pebble grey
UL 94 flammability rating	V-0	CTI	≥ 600
Temperature of glow-wire test	960 °C	Duration of glow-wire test	30 s
Contact material	E-Cu	Contact surface	tinned
Contact base material	E-Cu		

Connectable conductors

Clamping range, rated connection, min.	0.14 mm ²	Clamping range, rated connection, max.	16 mm ²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 8
Solid, min. H05(07) V-U	0.5 mm ²	Solid, max. H05(07) V-U	16 mm ²
Stranded, max. H07V-R	16 mm ²	Stranded, min. H07V-R	6 mm ²
Stranded, min. H07V-R	6 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	16 mm ²	w. wire end ferrule, DIN 46228 pt 1, min	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	10 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, min.	2.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	10 mm ²	Plug gauge acc. to EN 60999 a x b; Ø	5.4 mm x 5.1 mm; 5.3 mm

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	76 A	Rated current, max. no. of poles (Tu=20°C)	72 A
Rated current, number of poles (Tu=40°C), min	76 A	Rated current, number of poles (Tu=40°C), max.	62 A
Rated voltage for surge voltage class pollution degree II/2	1,000 V	Rated voltage for surge voltage class pollution degree III/2	690 V
Rated voltage for surge voltage class pollution degree III/3	690 V	Rated impulse voltage for surge voltage class pollution degree II/2	4 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	2 x 1s with 700 A		

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Technical data**CSA rating data**

Institute (CSA)



Rated voltage (Use group B)

300 V

Rated current (use group B)	65 A
Rated current (use group C)	65 A
Rated current (use group D)	10 A
Wire cross-section, AWG, max.	AWG 6

Rated voltage (Use group C)	150 V
Rated voltage (use group D)	300 V
Wire cross-section, AWG, min.	AWG 22

UL 1059 rating data

Institute (UR)



Rated voltage (use group B)

300 V

Rated current (use group B)	65 A
Rated current (use group C)	65 A
Rated current (use group D)	10 A
Wire cross-section, AWG, max.	AWG 6

Rated voltage (use group C)	150 V
Rated voltage (use group D)	300 V
Wire cross-section, AWG, min.	AWG 26

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-01
eClass 6.2	27-26-11-01	eClass 7.1	27-44-04-01

Notes

Notes

- Additional colours on request
- 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.

Approvals

Approvals



ROHS

Conform

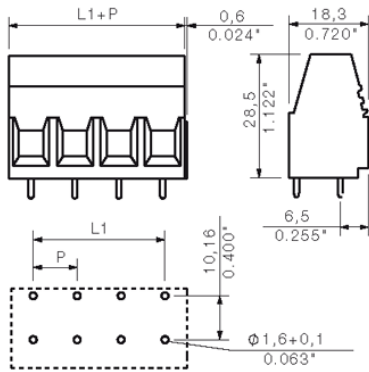
DownloadsCAD Library (P-CAD Format - ASCII) [LU.zip](#)CAD Library (P-CAD Format - Standard) [LU.zip](#)[3-D model](#)

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Drawings



LU 10.16/./90

