

# LPTA 16/ 2-10,0-ZB - PCB terminal block

1333817

<https://www.phoenixcontact.com/us/products/1333817>

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PCB terminal block, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm<sup>2</sup>, number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: LPTA 16/, pitch: 10 mm, connection method: Lever Push-in connection, mounting: Wave soldering, conductor/PCB connection direction: 30 °, color: green, Pin layout: Zigzag pinning W, Solder pin [P]: 3.6 mm, type of packaging: packed in cardboard

## Your advantages

- Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- Clear lever positions provide reliable feedback on opened or closed clamping spaces
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed
- Intuitive operation, thanks to a color-coded actuation lever

## Commercial data

Item number	1333817
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	AA15
Product key	AAOTAC
GTIN	4063151631765
Weight per piece (including packing)	27.256 g
Weight per piece (excluding packing)	25.38 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Product properties

Product type	PCB terminal block
Product family	LPTA 16/
Product line	COMBICON Terminals XL
Number of positions	2
Pitch	10 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Zigzag pinning W

### Electrical properties

#### Properties

Nominal current $I_N$	76 A
Nominal voltage $U_N$	1000 V
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

### Connection data

#### Connection technology

Nominal cross section	16 mm <sup>2</sup>
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#### Conductor connection

Connection method	Lever Push-in connection
Conductor cross-section rigid	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup> (Conductor connection with open terminal point) 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (Push-in connection)
Single-conductor/terminal point multi-stranded	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section flexible	0.75 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section AWG	18 ... 4
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	4 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Stripping length	18 mm ... 20 mm

### Mounting

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Mounting type	Wave soldering
Pin layout	Zigzag pinning W

## Material specifications

### Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface terminal point (top layer)	Tin (10 µm - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 µm - 16 µm Sn)

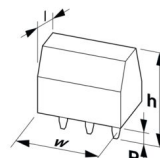
### Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

### Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

## Dimensions

Dimensional drawing	
Pitch	10 mm
Width [w]	21.9 mm
Height [h]	45.8 mm
Length [l]	37.4 mm
Installed height	42 mm
Solder pin length [P]	3.6 mm
Pin dimensions	1 x 1 mm

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## PCB design

Hole diameter	1.7 mm
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## Mechanical tests

### Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

### Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.75 mm <sup>2</sup> / solid / > 30 N
	0.75 mm <sup>2</sup> / flexible / > 30 N
	16 mm <sup>2</sup> / solid / > 100 N
	25 mm <sup>2</sup> / flexible / > 135 N

## Electrical tests

### Temperature-rise test

Specification	IEC 60947-7-4:2019-01
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.

### Short-time withstand current

Specification	IEC 60947-7-4:2019-01
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### Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

### Air clearances and creepage distances |

Specification	IEC 60947-7-4:2019-01
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

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## Environmental and real-life conditions

### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	50 m/s <sup>2</sup> (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

### Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

### Aging

Specification	IEC 60947-7-4:2019-01
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### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 105 °C (Depending on the current carrying capacity/derating curve)

## Packaging specifications

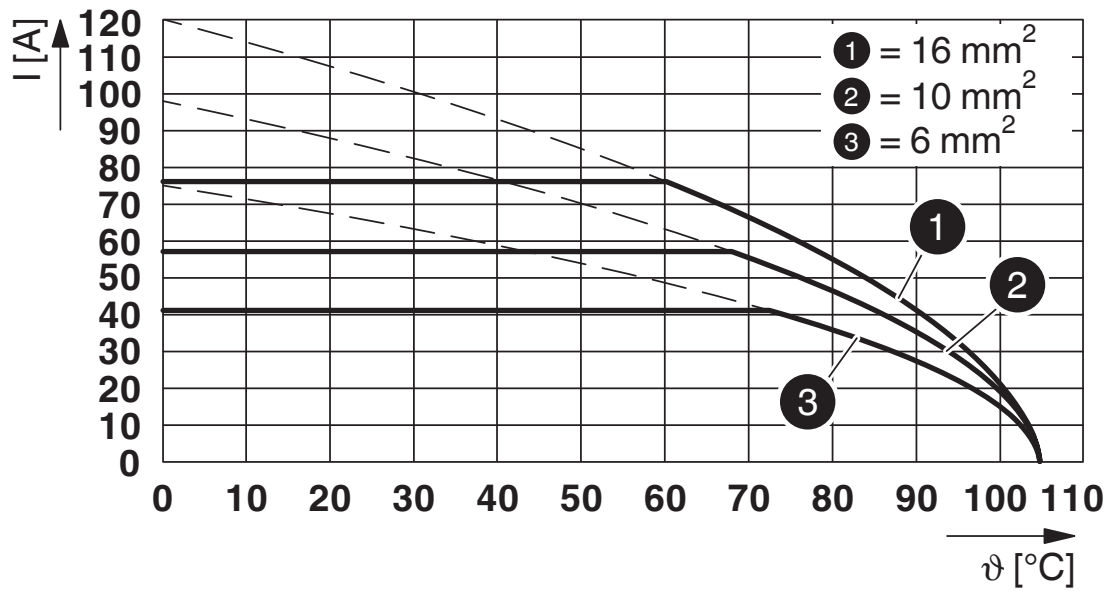
Type of packaging	packed in cardboard
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## Drawings

Diagram



Type: LPTA 16/...-10,0-ZB

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## Approvals

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 <b>cUL Recognized</b> Approval ID: E60425-20210507				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
C	1000 V	66 A	18 - 4	-

 <b>UL Recognized</b> Approval ID: E60425-20210507				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
C	600 V	66 A	18 - 4	-
F	1000 V	66 A	18 - 4	-

 <b>cULus Recognized</b> Approval ID: E60425-20210507				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	600 V	66 A	18 - 4	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 40054188				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	1000 V	76 A	-	0.75 - 25

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## Classifications

### ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

### ETIM

ETIM 10.0	EC002643
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.664 kg CO2e
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