

# LPTA 16/ 1-10,0 - PCB terminal block



1333816

<https://www.phoenixcontact.com/us/products/1333816>

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PCB terminal block, nominal current: 76 A, nominal cross section: 16 mm<sup>2</sup>, number of potentials: 1, number of rows: 1, number of positions per row: 1, 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: Linear pinning, Solder pin [P]: 3.8 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	1333816
Packing unit	1 pc
Minimum order quantity	25 pc
Sales Key	AA15
Product Key	AAOTAC
GTIN	4063151632052
Weight per Piece (including packing)	14.946 g
Weight per Piece (excluding packing)	14 g
Customs tariff number	85369010
Country of origin	PL

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## Technical Data

### Product properties

Product line	COMBICON Terminals XL
Product type	Printed circuit board terminal
Product family	LPTA 16/
Number of positions	1
Pitch	10 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning

### Electrical properties

Nominal current $I_N$	76 A
Degree of pollution	3

### 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

Mounting type	Wave soldering
Pin layout	Linear pinning

### Material specifications

#### Material data - contact

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

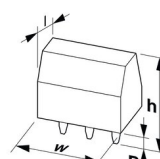
## Material data – actuating element

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

## Notes

General	The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required air clearances and creepage distances should be observed following installation.
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## Dimensions

Dimensional drawing	
Pitch	10 mm
Width [w]	11.9 mm
Height [h]	45.8 mm
Length [l]	37.4 mm
Installed height	42 mm
Solder pin length [P]	3.8 mm

## Mechanical tests

Test for conductor damage and slackening

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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

## 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)
Sweep speed	50 m/s <sup>2</sup> (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h

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

# LPTA 16/ 1-10,0 - PCB terminal block

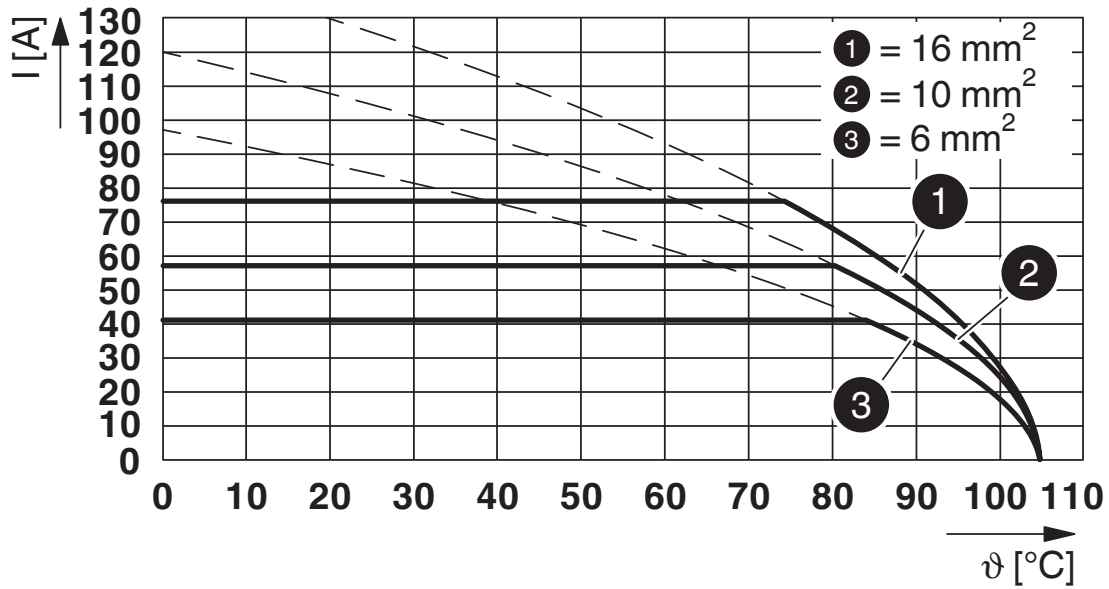


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## Drawings

Diagram



Type: LPTA 16/ 1-10,0

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1333816>

 <b>cUL Recognized</b> Approval ID: E60425-20210507				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Use group C				
	1000 V	72 A	18 - 4	-

 <b>UL Recognized</b> Approval ID: E60425-20210507				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Use group C				
	600 V	72 A	18 - 4	-
Use group F				
	1000 V	72 A	18 - 4	-

 <b>cULus Recognized</b> Approval ID: E60425-20210507				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Use group B				
	600 V	72 A	18 - 4	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 40054188				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
	1000 V	76 A	-	0.75 - 25

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## Classifications

### ECLASS

ECLASS-11.0	27460101
ECLASS-13.0	27460101
ECLASS-12.0	27460101

### ETIM

ETIM 8.0	EC002643
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## Accessories

### CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/us/products/1212034>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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### MPS-MT - Test plugs

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray

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## CRIMPFOX DUO 16S - Crimping pliers

1202877

<https://www.phoenixcontact.com/us/products/1202877>



Crimping pliers, contact type: insulated and uninsulated ferrules, standards/regulations: DIN 46228-1, DIN 46228-4, UL 486F, Form A, E, F, cross-section, minimum: 0.14 mm<sup>2</sup>, cross-section, maximum: 16 mm<sup>2</sup>, for TWIN ferrules up to 2 mm<sup>2</sup> x 6 mm<sup>2</sup>, automatic cross-section adjustment, rotating dies, lateral and front entry, crimping: square

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