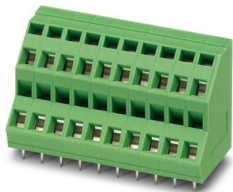


# ZFKKDSA 1,5C-5,0-21 - PCB terminal block

1716728

<https://www.phoenixcontact.com/us/products/1716728>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



The figure shows the 10-position version

PCB terminal block, nominal current: 16 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm<sup>2</sup>, number of potentials: 42, number of rows: 2, number of positions per row: 21, product range: ZFKKDS(A) 1,5C, pitch: 5 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.7 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

## Your advantages

- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Conductor connection on several levels enables higher contact density
- The latching on the side enables various numbers of positions to be combined

## Commercial data

Item number	1716728
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AALMCB
GTIN	4055626458670
Weight per piece (including packing)	53.214 g
Weight per piece (excluding packing)	52.038 g
Country of origin	IN

# ZFKKDSA 1,5C-5,0-21 - PCB terminal block



1716728

<https://www.phoenixcontact.com/us/products/1716728>

## Technical data

### Product properties

Product type	PCB terminal block
Product family	ZFKKDS(A) 1,5C
Product line	COMBICON Terminals S
Number of positions	21
Pitch	5 mm
Number of connections	42
Number of rows	2
Number of potentials	42
Pin layout	Linear pinning
Solder pins per potential	1

### Electrical properties

#### Properties

Nominal current $I_N$	16 A
Nominal voltage $U_N$	400 V
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

### Connection data

#### Connection technology

Type	PC terminal block can be aligned
Nominal cross section	1.5 mm <sup>2</sup>

#### Conductor connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Stripping length	7 mm

### Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

# ZFKKDSA 1,5C-5,0-21 - PCB terminal block



1716728

<https://www.phoenixcontact.com/us/products/1716728>

## 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)	green (6021)
---------------------------	--------------

## Dimensions

Dimensional drawing	
Pitch	5 mm
Width [w]	106 mm
Height [h]	29.7 mm
Length [l]	21 mm
Installed height	26 mm
Solder pin length [P]	3.7 mm
Pin dimensions	0.7 x 0.7 mm

### PCB design

Hole diameter	1.1 mm
---------------	--------

## Electrical tests

### Air clearances and creepage distances |

Insulating material group	I
---------------------------	---

# ZFKKDSA 1,5C-5,0-21 - PCB terminal block



1716728

<https://www.phoenixcontact.com/us/products/1716728>

Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

## Environmental and real-life conditions

### 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 ... 100 °C (Depending on the current carrying capacity/derating curve)

## Packaging specifications

Type of packaging	packed in cardboard
-------------------	---------------------

# ZFKKDSA 1,5C-5,0-21 - PCB terminal block



1716728

<https://www.phoenixcontact.com/us/products/1716728>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1716728>

 <b>cULus Recognized</b> Approval ID: E60425-19941111				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	250 V	10 A	26 - 12	-
D	300 V	10 A	26 - 12	-

# ZFKKDSA 1,5C-5,0-21 - PCB terminal block



1716728

<https://www.phoenixcontact.com/us/products/1716728>

## Classifications

### ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

### ETIM

ETIM 10.0	EC002643
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# ZFKKDSA 1,5C-5,0-21 - PCB terminal block



1716728

<https://www.phoenixcontact.com/us/products/1716728>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)