

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

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.



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: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 1,5C, pitch: 5 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: white, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. End terminal block for terminating custom-grouped blocks.

## 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
- Angled connection enables multi-row arrangement on the PCB
- Actuation shafts that are parallel and orthogonal to the conductor axis enable flexible PCB designs
- The latching on the side enables various numbers of positions to be combined
- Two solder pins reduce the mechanical strain on the soldering spots

## Commercial data

Item number	1700784
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALMBC
GTIN	4046356500470
Weight per piece (including packing)	1.215 g
Weight per piece (excluding packing)	1.215 g
Customs tariff number	85369010
Country of origin	IN

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

## Technical data

### Product properties

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 1,5C
Product line	COMBICON Terminals S
Type	PC terminal block can be aligned
Number of positions	1
Pitch	5 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

### Electrical properties

Nominal current $I_N$	16 A
Nominal voltage $U_N$	400 V
Degree of pollution	3
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

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784  
<https://www.phoenixcontact.com/us/products/1700784>

## 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	hot-dip 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)	white (9010)
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)	white (9010)
---------------------------	--------------

## Dimensions

Dimensional drawing	
Pitch	5 mm
Width [w]	6 mm
Height [h]	17.6 mm
Length [l]	14.1 mm
Installed height	13 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.7 x 0.7 mm

### PCB design

Pin spacing	5.08 mm
Hole diameter	1.1 mm

## Electrical tests

Air clearances and creepage distances |

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

Insulating material group	I
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 (operation)	-40 °C ... 100 °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

## Packaging specifications

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

# ZFKDSA 1,5C-6,0 WH - PCB terminal block




1700784

<https://www.phoenixcontact.com/us/products/1700784>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1700784>

<div> <b>cULus Recognized</b> Approval ID: E60425-19941110</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	250 V	10 A	26 - 12	-
Use group D	300 V	10 A	26 - 12	-

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002643
----------	----------

### UNSPSC

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

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

## 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%

# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

## Accessories

### SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/us/products/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

---

### SK 5/3,8:FORTL.ZAHLEN - Marker card

0804183

<https://www.phoenixcontact.com/us/products/0804183>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm



# ZFKDSA 1,5C-6,0 WH - PCB terminal block



1700784

<https://www.phoenixcontact.com/us/products/1700784>

## 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

---

Phoenix Contact 2024 © - 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)