

# DFK-MSTB 2,5/ 5-G AU - Feed-through header



1845329

<https://www.phoenixcontact.com/us/products/1845329>

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Feed-through header, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Au, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: DFK-MSTB 2,5/..-G, pitch: 5 mm, connection method: Solder/Slip-on connection, mounting: Direct mounting, pin layout: Linear pinning, solder pin [P]: 9.3 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard, accessory Item No. 5030172 can only be used in conjunction with MSTB 2,5/...ST and MSTBT 2,5/...ST.

## Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- Free choice – permanent solder connection or standardized slip-on connection
- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- Cable connection on the inside of the device enables flexible positioning of the panel feed-through

## Commercial data

Item number	1845329
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACWAA
GTIN	4017918230302
Weight per piece (including packing)	6.11 g
Weight per piece (excluding packing)	5.444 g
Customs tariff number	85366930
Country of origin	DE

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## Technical data

### Product properties

Product type	Feed-through header
Product family	DFK-MSTB 2,5/..-G
Product line	COMBICON Connectors M
Type	Feed-through header
Number of positions	5
Pitch	5 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting type	without
Pin layout	Linear pinning
Solder pins per potential	1

### Electrical properties

#### Properties

Nominal current $I_N$	12 A
Nominal voltage $U_N$	320 V
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

### Mounting

Mounting type	Direct mounting
Pin layout	Linear pinning

#### Attachment to feed-through panel

Tightening torque	0.3 Nm
Screw	0708263 DFK-MSTB SS for housing walls of up to 6 mm thick

### 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	Completely gold-plated
Metal surface contact area (top layer)	Gold (0.8 - 1.4 $\mu\text{m}$ Au)
Metal surface contact area (middle layer)	Nickel (2 - 4 $\mu\text{m}$ Ni)

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Metal surface soldering area (top layer)	Gold (0.8 - 1.4 $\mu\text{m}$ Au)
Metal surface soldering area (middle layer)	Nickel (2 - 4 $\mu\text{m}$ Ni)

## 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

## Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
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## Dimensions

Dimensional drawing	
Pitch	5 mm
Width [w]	45 mm
Height [h]	29.5 mm
Length [l]	17.5 mm
Installed height	20.2 mm
Solder pin length [P]	9.3 mm
Pin dimensions	0.8 x 2.8 mm

## PCB design

Hole diameter	3.2 mm
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## Electrical tests

Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm

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minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the 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
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Type of packaging	packed in cardboard
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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1845329>

		CSA		
		Approval ID: 13631		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
B		300 V	15 A	-
D		300 V	10 A	-

		cULus Recognized		
		Approval ID: E60425-19931011		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
B		300 V	15 A	-
D		300 V	10 A	-

		VDE approval of drawings		
		Approval ID: 40050648		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
keine		250 V	12 A	-

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## Classifications

### ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

### ETIM

ETIM 9.0	EC002637
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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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