

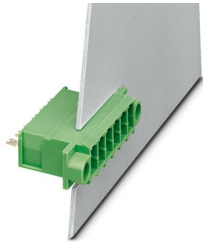
Feed-through header - DFK-PC 4/ 5-G-7,62-LOE



1830787

<https://www.phoenixcontact.com/de/produkte/1830787>

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Feed-through header, nominal cross section: 4 mm², color: green, nominal current: 15 A, rated voltage (III/2): 400 V, contact surface: Tin, type of contact: Male connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: DFK-PC 4/..-G -LOE, pitch: 7.62 mm, connection method: Solder connection, pin layout: Linear pinning, solder pin [P]: 5.87 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- Permanent solder connection prevents inadvertent loosening
- Space-saving connection
- Cable connection on the inside of the device enables flexible positioning of the panel feed-through

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Commercial Data

Item number	1830787
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to Order (non-returnable)
Sales Key	E1 - Leiterplattenanschl.
Product Key	AADWBA
GTIN	4017918051426
Weight per Piece (including packing)	10,55 g
Weight per Piece (excluding packing)	9,733 g
Customs tariff number	85366990
Country of origin	PL

Technical Data

Product properties

Product line	COMBICON Connectors L
Product type	Feed-through header
Number of positions	5
Pitch	7.62 mm
Number of connections	5
Number of rows	1
Mounting flange	without
Number of potentials	5
Pin layout	Linear pinning

Electrical properties

Nominal current I_N	15 A
Nominal voltage U_N	400 V
Pollution degree	3
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	6 kV

Mounting

Mounting type Soldering	Soldering
Mounting type	Soldering

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 contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 μm Ni)

Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V2

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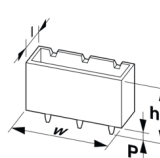
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Notes

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	7.62 mm
Width [w]	53.32 mm
Height [h]	14.25 mm
Length [l]	34.87 mm
Installed height	14.25 mm
Solder pin length [P]	5.87 mm

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)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	5.5 mm
Rated insulation voltage (II/2)	800 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

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

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Packaging specifications

Type of packaging	packed in cardboard
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Type of packaging	packed in cardboard
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Approvals

 CSA Approval ID: 13631				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	300 V	20 A	-	-
Use group C				
	300 V	20 A	-	-

 EAC Approval ID: B.01687				
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 cULus Recognized Approval ID: E60425-19920722				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
For 600 V applications, additional insulation is required on the solder pins	300 V	20 A	-	-
Use group C				
For 600 V applications, additional insulation is required on the solder pins	300 V	20 A	-	-

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Classifications

ECLASS

ECLASS-9.0	27440402
ECLASS-10.0.1	27440402
ECLASS-11.0	27460201

ETIM

ETIM 8.0	EC002637
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Screw set

Screw set - DFK-MSTB-SS - 0708263

<https://www.phoenixcontact.com/de/produkte/0708263>



Screw set, for securing the header to the device wall, consists of an M3 x 10 screw, with a spring washer and a nut

Coding profile

Coding profile - CP-PC RD - 1701967

<https://www.phoenixcontact.com/de/produkte/1701967>



Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

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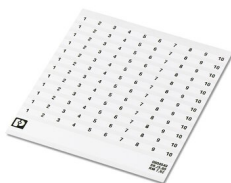
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Marker card

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549

<https://www.phoenixcontact.com/de/produkte/0804549>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

Screwdriver

Screwdriver - SZS 0,6X3,5 - 1205053

<https://www.phoenixcontact.com/de/produkte/1205053>



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

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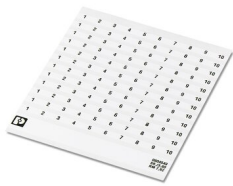
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Marker card

Marker card - SK 3,8 REEL P7,62 WH CUS - 0825128

<https://www.phoenixcontact.com/de/produkte/0825128>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: continuous x 3.8 mm

Marker card

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906

<https://www.phoenixcontact.com/de/produkte/0803906>



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

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Marker strip

Marker strip - SK 3,8 WH:REEL - 0805218

<https://www.phoenixcontact.com/de/produkte/0805218>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 3.8 mm, Number of individual labels: 210000

PCB connector

PCB connector - PC 4/ 5-ST-7,62 - 1804933

<https://www.phoenixcontact.com/de/produkte/1804933>



PCB connector, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: PC 4/..-ST, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard

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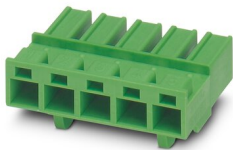
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PCB connector

PCB connector - PCC 4/ 5-ST-7,62 - 1840162

<https://www.phoenixcontact.com/de/produkte/1840162>



PCB connector, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 1000 V, type of contact: Female connector, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: PCC 4/..-ST, pitch: 7.62 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 13,5A/STG-MTN 0,5-1,0 (3190438); 13,5A/STG-MTN 0,5-1,0 BA (3190629); 20A/STG-MTN 1,5-2,5 (3190506); 20A/STG-MTN 1,5-2,5 BA (3190632). BA = Taped contacts

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