

DFK-IPC 35 HC/ 5-GF-15,00 - Feed-through header



1784994

<https://www.phoenixcontact.com/us/products/1784994>

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Feed-through header, nominal cross section: 35 mm², color: green, nominal current: 125 A, rated voltage (III/2): 1000 V, contact surface: Ag, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: DFK-IPC 35 HC/...-GF, pitch: 15 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.6 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 35, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting method: Threaded flange, type of packaging: packed in cardboard

Your advantages

- Well-known mounting principle allows worldwide use
- Double flange for space-optimized screw connection on the housing panel and with the connector
- Inverted header with socket contacts for touch-proof device outputs or PCB/PCB connections
- Integrated double steel spring provides additional safety in the event of temperature and power fluctuations

Commercial data

Item number	1784994
Packing unit	10 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA05
Product key	AAEWCB
GTIN	4046356561303
Weight per piece (including packing)	150.8 g
Weight per piece (excluding packing)	143.836 g
Customs tariff number	85366930
Country of origin	PL

Technical data

Product properties

Product type	Feed-through header
Product family	DFK-IPC 35 HC/...GF
Product line	COMBICON Connectors XL
Type	Feed-through header
Number of positions	5
Pitch	15 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting flange	Threaded flange
Pin layout	Linear pinning
Solder pins per potential	3

Electrical properties

Properties

Nominal current I_N	125 A
Nominal voltage U_N	1000 V
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Flange

Tightening torque	0.8 Nm
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Attachment to feed-through panel

Tightening torque	1 Nm
Screw	1700368 DFK-PC 35 SS

Attachment on the PCB

Tightening torque	1 Nm
Screw	1700368 DFK-PC 35 SS

Material specifications

Material data - contact

DFK-IPC 35 HC/ 5-GF-15,00 - Feed-through header



1784994

<https://www.phoenixcontact.com/us/products/1784994>

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)

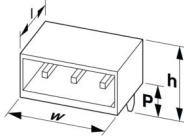
Material data - housing

Color (Housing)	green (6021)
Insulating material	PBT
Insulating material group	IIIa
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0

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	15 mm
Width [w]	107.4 mm
Height [h]	36.3 mm
Length [l]	44.9 mm
Installed height	31.7 mm
Solder pin length [P]	4.6 mm
Pin dimensions	2.5 x 2.5 mm

PCB design

Hole diameter	3.6 mm
	5.4 mm

Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	IIIa
Comparative tracking index (IEC 60112)	CTI 225
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	16 mm
Rated insulation voltage (III/2)	1000 V

DFK-IPC 35 HC/ 5-GF-15,00 - Feed-through header



1784994

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Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	10 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	10 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

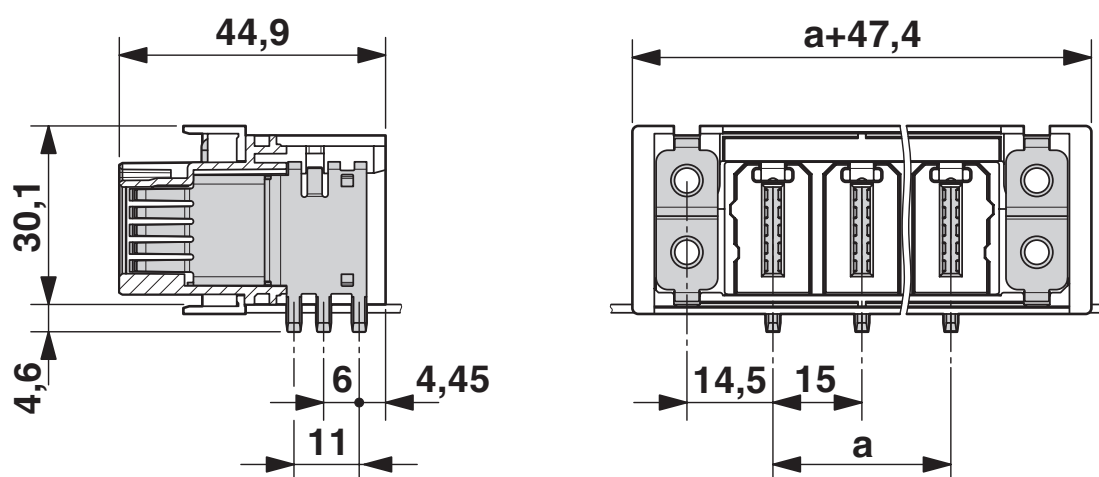
Type of packaging	packed in cardboard
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Packaging specifications

Type of packaging	packed in cardboard
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Drawings

Dimensional drawing



Dimensional drawing



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1784994

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1784994>

 UL Recognized Approval ID: E60425-20101007				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	115 A	-	-
Use group C	600 V	115 A	-	-

 VDE report with production monitoring Approval ID: 40039053				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	125 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27460201
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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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EF3.0 Climate Change

CO2e kg	0.803 kg CO2e
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