HCC 4-F - Female insert

1600001

https://www.phoenixcontact.com/us/products/1600001

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Female insert, nom. voltage: 500 V, nominal current: 25 A, number of connections: 10, number of positions: 10, connection method: Screw connection, Rated cross section: 4 mm^2, cross section: 0.2 mm^2 - 4 mm^2, mounting type: direct screw connection, color: gray



Your advantages

- Sturdy strain relief for plug and socket
- Touch proof, even when unplugged

Commercial data

Item number	1600001
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	BE19
Product key	BE1ZWX
GTIN	4017918021733
Weight per piece (including packing)	43.48 g
Weight per piece (excluding packing)	43.48 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Product properties

Product type	High current terminal block
Number of positions	10
Pitch	7.62 mm
Number of connections	10
Number of rows	1
Potentials	10

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

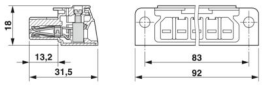
Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	10
Nominal cross section	4 mm²
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	7 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 4 mm²
Conductor cross-section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 4 mm²
2 conductors with same cross section, rigid	0.2 mm² ... 2.5 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 2.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 2.5 mm²
Nominal cross section	4 mm²
Nominal current	25 A
Maximum load current	25 A (with 4 mm² conductor cross-section)
Nominal voltage	500 V

Dimensions

Dimensional drawing	
Width	92 mm
Height	31.5 mm
Depth	18 mm
Drill hole spacing	83 mm
Pitch	7.62 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-40 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

Mechanical properties

Mechanical data

Open side panel	No

Technical data

Drill hole spacing	83 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

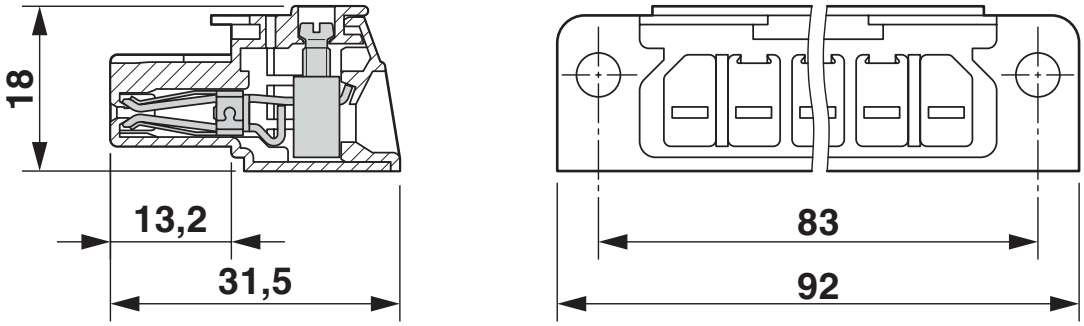
Connection in acc. with standard	IEC 61984

Mounting

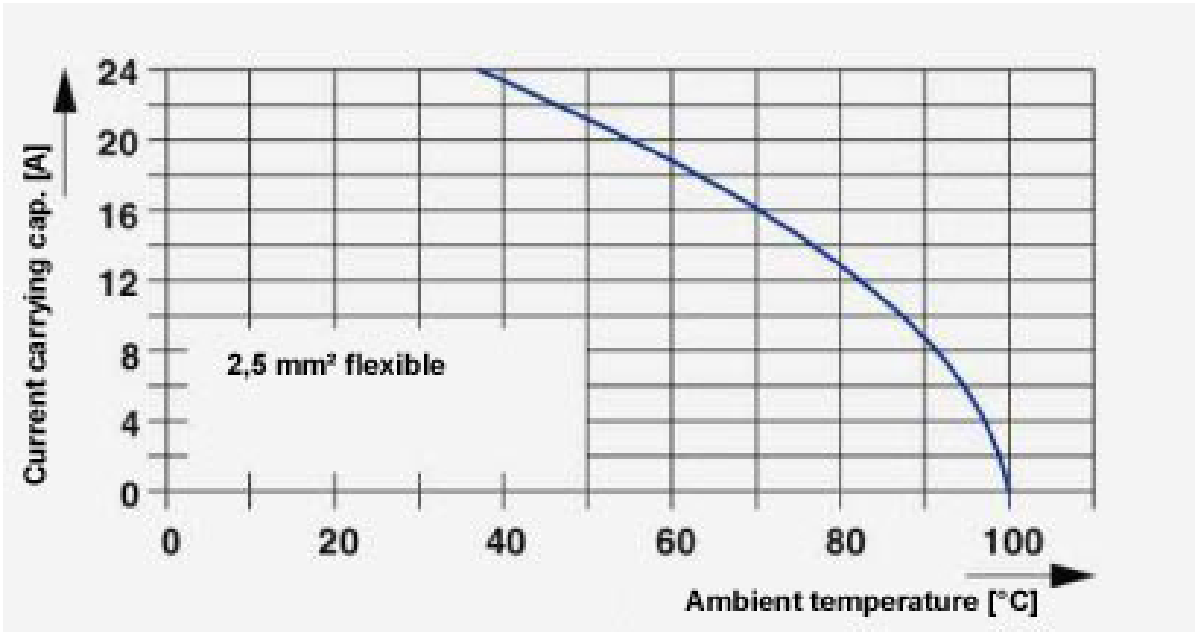
Mounting type	direct screw connection

Drawings

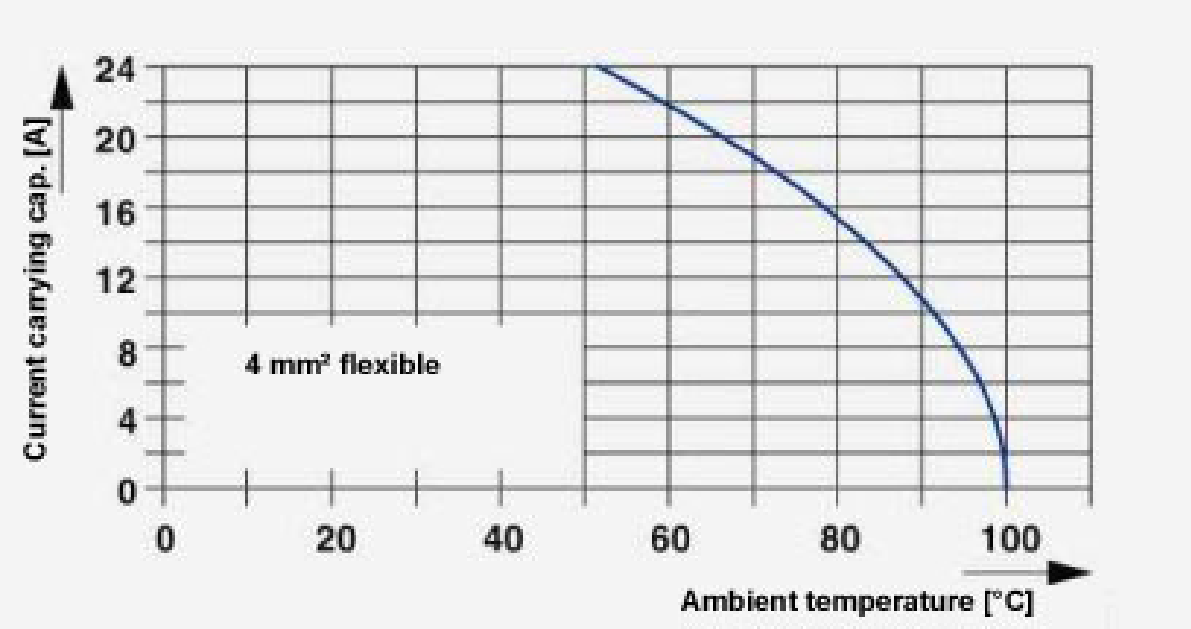
Dimensional drawing



Diagram



Diagram


Current carrying cap. [A]
24
20
16
12
8
4
0
4 mm² flexible
0
20
40
60
80
100
Ambient temperature [°C]

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1600001

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	20 A	30 - 10	-

UL Recognized
Approval ID: FILE E 60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	250 V	20 A	30 - 10	-
C				
	300 V	20 A	30 - 10	-
keine				
	300 V	20 A	30 - 10	-

DNV GL
Approval ID: TAE00001EZ

Classifications

ECLASS

ECLASS-13.0	27141190
ECLASS-15.0	27141190

ETIM

ETIM 10.0	EC002848

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	bd9b3fce-9bd5-4c44-8662-b3ba8f600df3

EF3.1 Climate Change

CO2e kg	0.247 kg CO2e

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