

# 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<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, 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
Catalog page	Page 439 (C-3-2013)
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

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## 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

### Data management status

Article revision	07
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### 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 mm <sup>2</sup>
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 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Nominal current	25 A
Maximum load current	25 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal voltage	500 V
Nominal cross section	4 mm <sup>2</sup>

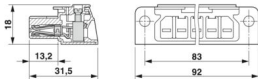
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## Dimensions

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
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### Technical data

Drill hole spacing	83 mm
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## 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
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## Mounting

Mounting type	direct screw connection
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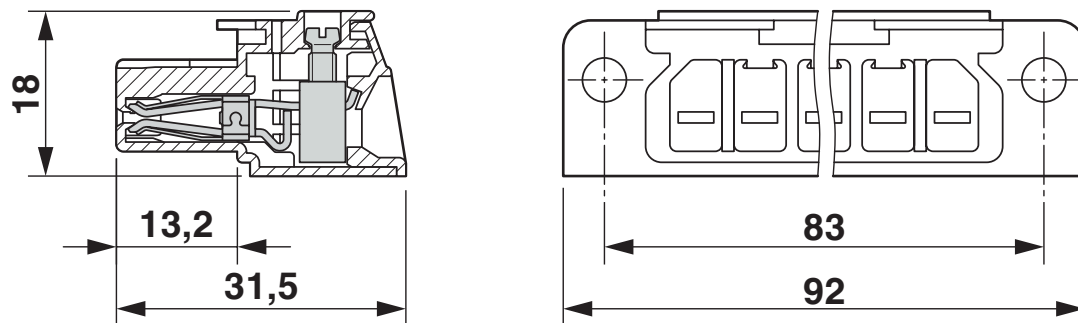
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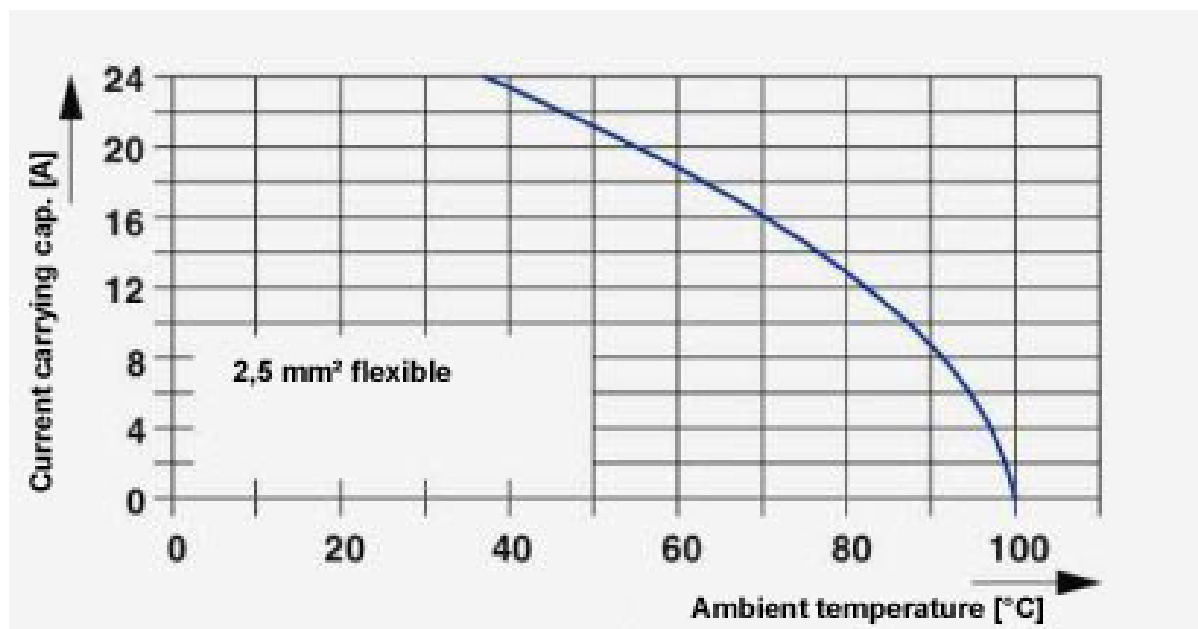


## Drawings

Dimensional drawing



Diagram



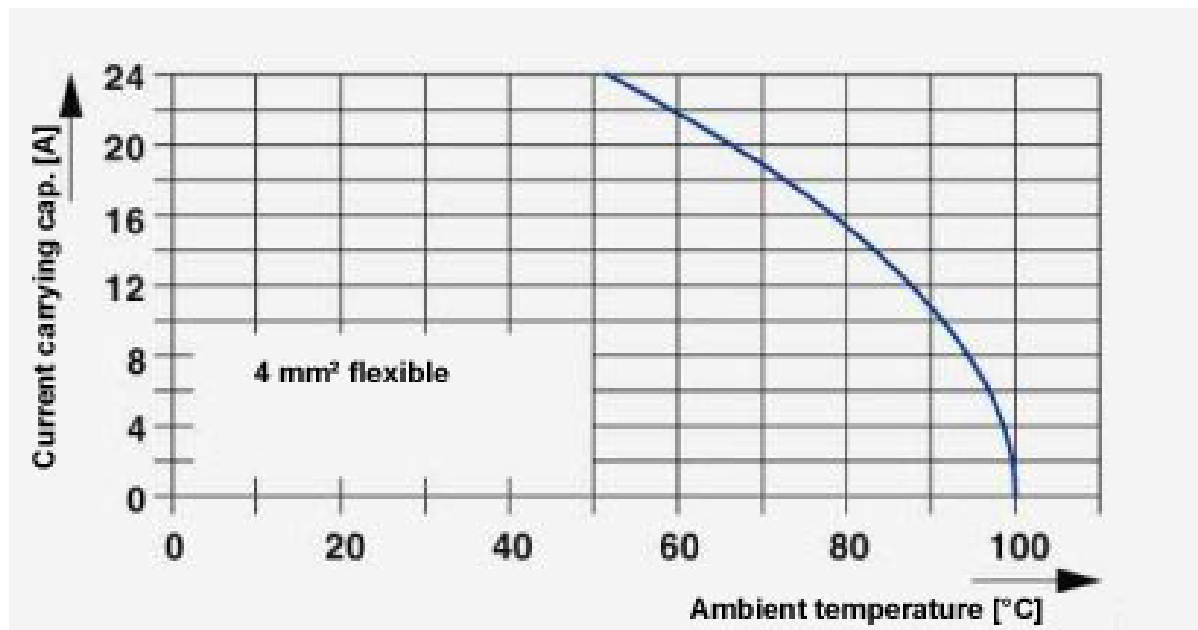
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Diagram



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Circuit diagram



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## Approvals

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

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	300 V	20 A	28 - 10	-

 <b>UL Recognized</b> Approval ID: FILE E 60425				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	250 V	20 A	30 - 10	-
Use group C				
	300 V	20 A	30 - 10	-
	300 V	20 A	30 - 10	-

 <b>DNV GL</b> Approval ID: TAE00001EZ				
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 <b>LR</b> Approval ID: LR21308805TA				
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## Classifications

### ECLASS

ECLASS-11.0	27141190
ECLASS-12.0	27141190
ECLASS-13.0	27141190

### ETIM

ETIM 9.0	EC002848
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### UNSPSC

UNSPSC 21.0	39121400
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## 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

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