

1014420

https://www.phoenixcontact.com/us/products/1014420

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 18+PE, size: B10, power contacts: 18, control contacts: 0, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, $0.5~\text{mm}^2$... 2.5 mm², application: Power

Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- · Shortest installation time compared to other connection technologies
- · Quick and effortless wiring, in particular when space is tight
- · Automatic cabling with robots possible
- · Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- · Cost-effective and fast coding with plastic profiles
- · High contact density

Commercial data

Item number	1014420
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABD
GTIN	4055626492179
Weight per piece (including packing)	76.4 g
Weight per piece (excluding packing)	76 g
Customs tariff number	85366990
Country of origin	CN





https://www.phoenixcontact.com/us/products/1014420



Technical data

Notes

General	for flexible conductors with or without ferrules
General	Connectors may be operated only when there is no load/voltage.
General	Flexible conductors may be used without ferrules as long as they comply with IEC 60228 Class 1 5. The individual litz wires must have a min. diameter of 0.17 mm.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection
	or better is required

Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-BB
Application	Power
Туре	B10
Number of positions	18
Connection profile	18+PE
Contact numbering	1 - 18
Number of connections per position	1
No. of power contacts	18
No. of control contacts	0
Contact material type	turned
nsulation characteristics	
Overvoltage category	III

Dimensions

Degree of pollution

Dimensional drawing	Uning [m]
Width	34 mm
Height	33.2 mm
Length	64 mm
Drill hole distance, horizontal	57 mm
Drill hole distance, vertical	27 mm
Mechanical characteristics	
Minimum housing height	72 mm
Contact diameter	2.5 mm



https://www.phoenixcontact.com/us/products/1014420



Connection data

O	4
Connection	rechnology

Connection technology	Push-in connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor connection	
Conductor cross section	0.5 mm² 2.5 mm²
Connection cross section AWG	20 14
Tightening torque	0.8 Nm 1.2 Nm (PE connection)
	0.5 Nm 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	10 mm

Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A (power contacts)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
-----------------------------	-------

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC
Standards/regulations	PC

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation) -40 °C 125 °C (including heating up of contacts)
--

Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23,
	and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

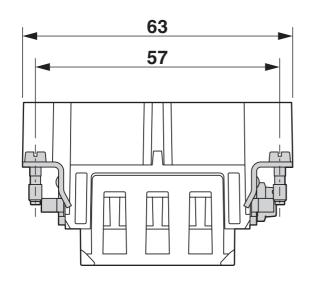
1014420

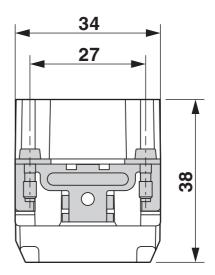
https://www.phoenixcontact.com/us/products/1014420



Drawings

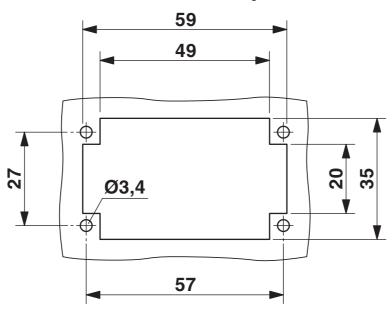
Dimensional drawing





Male insert

Dimensional drawing



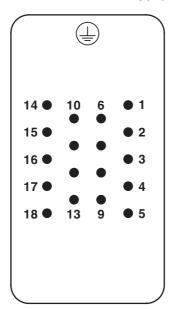
Mounting cutout when used without housing

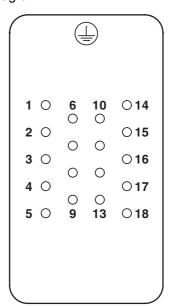


https://www.phoenixcontact.com/us/products/1014420



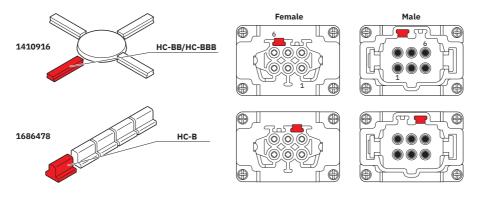
Schematic diagram





Connector pin assignment: Left pin - right socket

Schematic diagram

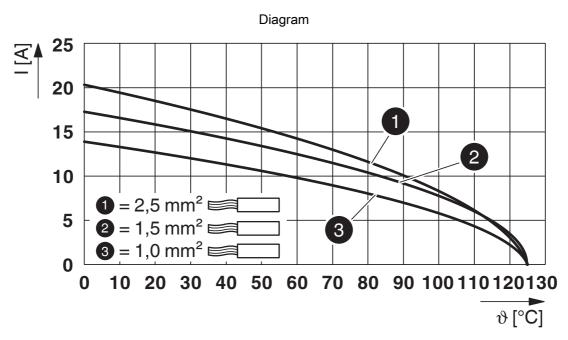


Coding options

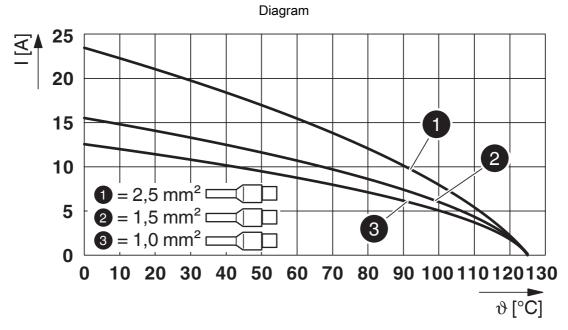


https://www.phoenixcontact.com/us/products/1014420





Derating diagram for flexible conductors



Derating diagram for flexible conductors with ferrule



https://www.phoenixcontact.com/us/products/1014420



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1014420

DNV Approval ID: TAE000037S			

7.1	UL Recognized Approval ID: E468743	JL Recognized Approval ID: E468743			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	21 A	- 14	-



1014420

https://www.phoenixcontact.com/us/products/1014420

Classifications

ECLASS

	ECLASS-15.0	27440205
	ECLASS-15.0	27440205
ETIM		
	ETIM 9.0	EC000438
UNSPSC		
	UNSPSC 21.0	39121500



https://www.phoenixcontact.com/us/products/1014420



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
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%	

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com