

1605653

https://www.phoenixcontact.com/us/products/1605653

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Contact insert, number of positions: 16+PE, size: B16, Pin, QUICKON connection, 500 V, 16 A, $0.34~\mathrm{mm}^2$... $2.5~\mathrm{mm}^2$

Product description

Contact insert

With QUICKON connection technology, the wires are connected with just a turn of the screwdriver. The wires do not have to be stripped first. This reduces connection time by at least 60%.

Your advantages

• Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1605653
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABC
GTIN	4017918940744
Weight per piece (including packing)	90.91 g
Weight per piece (excluding packing)	90.91 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Notes

	General	Connectors may be operated only when there is no load/voltage.
Moui	nting	
	Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
Prod	luct properties	

Ρ

Product type	Contact insert with a fixed no. of positions
Series	HC-B
Туре	B16
	B32
Number of positions	16
Connection profile	16+PE
Contact numbering	17 - 32
Contact material type	rolled
Landa Carlos de Carlos de Carlos	

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	64.5 77.5 27 86
Width	34 mm
Height	35 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm
Mechanical characteristics	
Contact diameter	2.5 mm

Connection data

Someone teamology	
Connection technology	QUICKON connection
Conductor connection	
Conductor cross section	0.34 mm ² 2.5 mm ² (Litz wire structure VDE 0295, Class 1 - 5/litz wire diameter >= 0.2 mm)



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Connection cross section AWG	22 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)
Electrical properties	
Rated voltage (III/3)	500 V
	500 V
Rated surge voltage	6 kV
	6 kV
Rated current	16 A
	16 A
Mechanical properties Mechanical data	
Insertion/withdrawal cycles	≥ 500
Material specifications	
Material Wire insulation	PVC / PE
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Standards/regulations	PA
	PA
Environmental and real-life conditions	
Ambient conditions	10.00 105.00 (5.1.15.1.15.1.15.1.15.1.15.1.15.1.15.1
Ambient temperature (operation)	-40 °C 125 °C (including heating up of contacts)
Ambient temperature (assembly)	-25 °C 50 °C
Standards and regulations	
Testing	
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

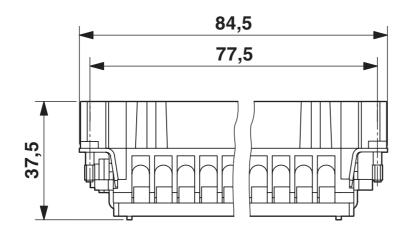


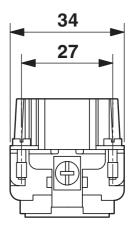
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Drawings

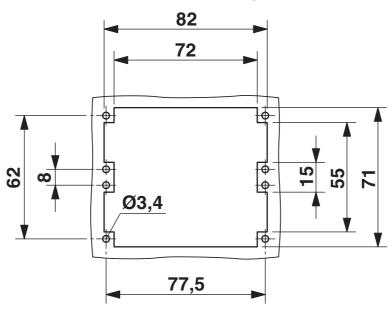
Dimensional drawing





Male insert

Dimensional drawing



Mounting cutout when used without housing

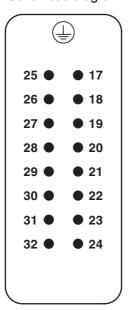


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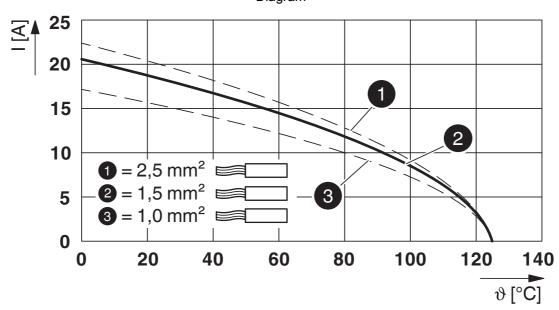


Schematic diagram



Connector pin assignment, connection side

Diagram

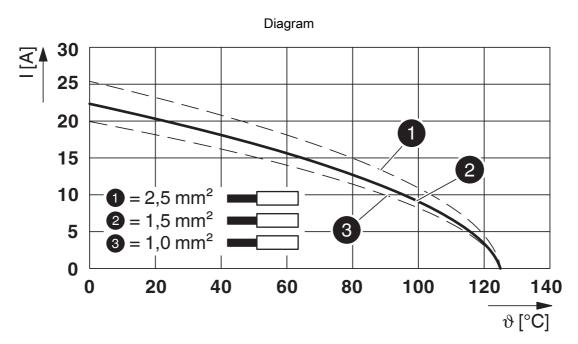


Derating diagram for flexible conductors



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Derating diagram for solid conductors



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605653

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_6233_01



cUL RecognizedApproval ID: E118976



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Classifications

ECLASS

	ECLASS-13.0	27440205
	ECLASS-15.0	27440205
ETIM		
	ETIM 9.0	EC000438
U	NSPSC	
	UNSPSC 21.0	39121500



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Environmental product compliance

EU RoHS

20 1.01.0	
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%

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