

1702013

https://www.phoenixcontact.com/pc/products/1702013

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.



PCB connector, nominal cross section: 6 mm², color: black, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, contact connection type: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 6, product range: PC 5/..-STF1-SH, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · 600 V UL approval in the smallest of dimensions
- · Shield for adherence to the EMC requirements and an optional strain relief
- Screwable flange for superior mechanical stability

Commercial data

Item number	1702013
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	AADABD
GTIN	4046356572422
Weight per piece (including packing)	67.958 g
Weight per piece (excluding packing)	67.5 g
Customs tariff number	85366990
Country of origin	DE



1702013

https://www.phoenixcontact.com/pc/products/1702013

Technical data

Product properties

Product type	PCB connector
Product family	PC 5/STF1-SH
Product line	COMBICON Connectors L
Number of positions	6
Pitch	7.62 mm
Number of connections	6
Number of rows	1
Number of potentials	6
Mounting flange	Screw flange

Electrical properties

Nominal current I _N	41 A
Nominal voltage U _N	1000 V
Degree of pollution	3
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

Connection data

Connection technology

Standard	
COMBICON PC 5	
6 mm ²	
Socket	
Screw locking mechanism	
Screw flange	
0.3 Nm 0.7 Nm	
Screw connection with tension sleeve	
0 °	
0.2 mm ² 10 mm ²	
0.2 mm ² 6 mm ²	
24 10	



1702013

https://www.phoenixcontact.com/pc/products/1702013

Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 4 mm ²	
2 conductors with same cross section, solid	0.2 mm² 2.5 mm²	
2 conductors with same cross section, flexible	0.2 mm ² 4 mm ²	
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	0.25 mm² 2.5 mm²	
Cylindrical gauge a x b / diameter	3.6 mm x 3.1 mm / 3.4 mm	
Stripping length	10 mm	
Tightening torque	0.5 Nm 0.8 Nm (≤ 4 mm² is 0.5 Nm to 0.6 Nm, > 4 mm² is 0.7 Nm to 0.8 Nm)	

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 μm Sn)

Material data - housing

Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2- 13	775
Temperature for the ball pressure test according to EN 60695- 10-2	125 °C

Dimensions

Dimensional drawing	h w
Pitch	7.62 mm
Width [w]	62 mm
Height [h]	27.28 mm
Length [I]	120 mm

Mounting

1702013

https://www.phoenixcontact.com/pc/products/1702013

Drive form screw head	Slotted Phillips recess (H1L)
Flange	
Tightening torque	0.3 Nm 0.7 Nm
otes	

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

Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
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)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 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)	5.5 mm

Packaging specifications

Type of packaging

packed in cardboard

PHŒNIX CONTACT



1702013

https://www.phoenixcontact.com/pc/products/1702013

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1702013

CULus Recogniz Approval ID: E60425				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
Multi-conductor connection	600 V	41 A	24 - 12	-
Screw connection	600 V	41 A	24 - 8	-
Use group C				
Multi-conductor connection	600 V	41 A	24 - 12	-
Screw connection	600 V	41 A	24 - 8	-



1702013

https://www.phoenixcontact.com/pc/products/1702013

Classifications

ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

ETIM

	ETIM 8.0	EC002638	
UNSPSC			
	UNSPSC 21.0	39121400	



1702013

https://www.phoenixcontact.com/pc/products/1702013

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%		



1702013

https://www.phoenixcontact.com/pc/products/1702013

Accessories

SZS 0,6X3,5 - Screwdriver

1205053 https://www.phoenixcontact.com/pc/products/1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

CP-PC RD - Coding profile

1701967 https://www.phoenixcontact.com/pc/products/1701967

Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com