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PCB connector, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: PC 4/..-ST, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, 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

Commercial data

Item number	1804988
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADAAC
Catalog page	Page 512 (C-1-2013)
GTIN	4017918046422
Weight per piece (including packing)	42.3 g
Weight per piece (excluding packing)	40.772 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Product properties

Product type	PCB connector
Product family	PC 4/ST
Product line	COMBICON Connectors L
Туре	Standard
Number of positions	10
Pitch	7.62 mm
Number of connections	10
Number of rows	1
Number of potentials	10
Mounting flange	without

Electrical properties

Nominal current I _N	20 A
Nominal voltage U _N	630 V
Degree of pollution	3
Contact resistance	0.5 mΩ
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	Standard
Connector system	COMBICON PC 4
Nominal cross section	4 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm ² 4 mm ²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section AWG	24 10
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 4 mm²

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sleeve	
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 mm ² 2.5 mm ²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 2.5 mm ²
Cylindrical gauge a x b / diameter	3.6 mm x 3.1 mm / 3.0 mm
Stripping length	7 mm
Tightening torque	0.5 Nm 0.6 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)	green (6021)
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
Pitch	7.62 mm
Width [w]	76.18 mm
Height [h]	18.1 mm
Length [I]	30.7 mm

Mounting



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Drive form screw head	Slotted (L)
ites	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	4 mm² / solid / > 60 N
	4 mm² / flexible / > 60 N
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	5 N
Torque test	
Specification	IEC 60999-1:1999-11
Specification	
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

Vibration test	
Specification	IEC 60068-2-6:2007-12



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Frequency	10 - 150 - 10 Hz
Frequency	10 - 150 - 10 HZ 1 octave/min
Sweep speed	
Amplitude Acceleration	0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
	2.5 11
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	7.3 kV
Contact resistance R ₁	0.5 mΩ
Contact resistance R ₂	0.6 mΩ
Insertion/withdrawal cycles	50
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 $dm^3 SO_2$ on 300 $dm^3/40$ °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	3.31 kV
mbient 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
striad tests	
ctrical tests hermal test Test group C	
hermal test Test group C Specification	IEC 60512-5-1:2002-02
hermal test Test group C	IEC 60512-5-1:2002-02 12
hermal test Test group C Specification	
hermal test Test group C Specification Tested number of positions	
hermal test Test group C Specification Tested number of positions	12
hermal test Test group C Specification Tested number of positions isulation resistance Specification	12 IEC 60512-3-1:2002-02
hermal test Test group C Specification Tested number of positions nullation resistance Specification Insulation resistance, neighboring positions	12 IEC 60512-3-1:2002-02
hermal test Test group C Specification Tested number of positions asulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances	12 IEC 60512-3-1:2002-02 > 5 MΩ
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification	12 IEC 60512-3-1:2002-02 > 5 MΩ
hermal test Test group C Specification Tested number of positions asulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 Ι
hermal test Test group C Specification Tested number of positions nulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 Ι CTI 600
hermal test Test group C Specification Tested number of positions asulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 400 V
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 400 V 6 kV
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 400 V 6 kV 5.5 mm
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	12 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 400 V 6 kV 5.5 mm 5.5 mm
hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/3)	12 IEC 60512-3-1:2002-02 > 5 MQ IEC 60664-1:2007-04 I CTI 600 400 V 6 kV 5.5 mm 5.5 mm 630 V

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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
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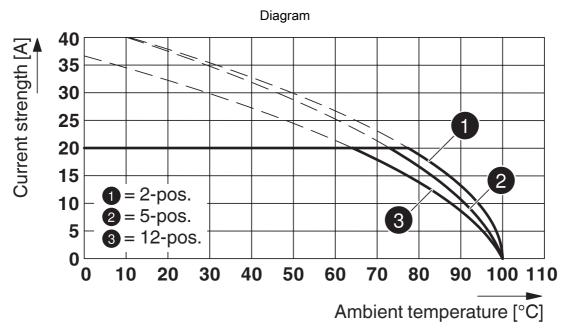




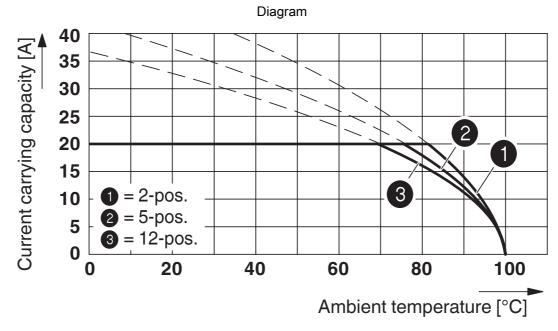
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Drawings



Type: PC 4/...-ST-7,62 with PC 5/...-G-7,62

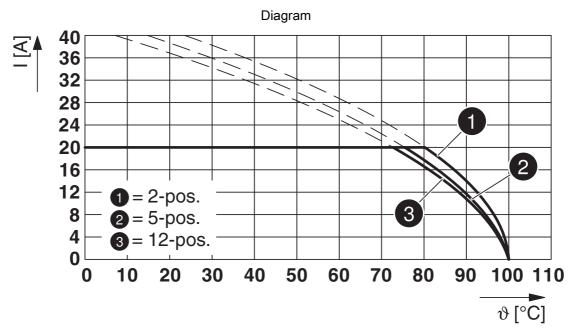


Type: PC 4/...-ST-7,62 with PC 4/...-G-7,62

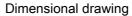


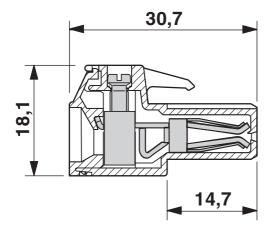
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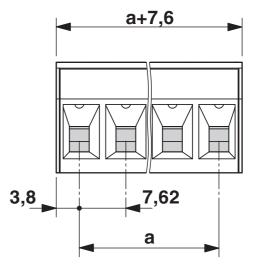
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Type: PC 4/...-ST-7,62 with PCV 5/...-G-7,62



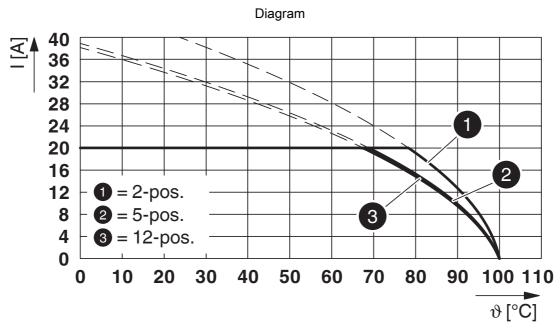






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Type: PC 4/...-ST-7,62 with PC 5/...-GU-7,62



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Approvals

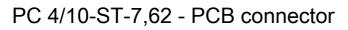
🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1804988

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	20 A	28 - 10	-
Use group C				
	300 V	20 A	28 - 10	-

Approval ID: E60425-19920722				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	30 A	30 - 10	-
Use group C				
	300 V	30 A	30 - 10	-
Use group D				
	600 V	5 A	30 - 10	-



BV Approval ID: 35433/B0 BV



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Classifications

ECLASS

ECLASS-12.0 27460202	
ECLASS-13.0 27460202	

ETIM

	ETIM 9.0	EC002638	
UN	UNSPSC		
	UNSPSC 21.0	39121400	

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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%			

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Accessories

CP-PC RD - Coding profile

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

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



SK 7,62/3,8:FORTL.ZAHLEN - Marker card

0804549

https://www.phoenixcontact.com/us/products/0804549



Marker card, white, labeled, horizontal: consecutive numbers 1 \dots 10, 11 \dots 20, etc. up to 91 \dots 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

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SZS 0,6X3,5 - Screwdriver

1205053

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

PCV 4/10-G-7,62 - PCB header

1804768 https://www.phoenixcontact.com/us/products/1804768



PCB headers, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: PCV 4/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, Mounting flange: Accessory Item No. 1827570

1804988 https://www.phoenixcontact.com/us/products/1804988



PC 4/10-G-7,62 - PCB header

1804878

https://www.phoenixcontact.com/us/products/1804878



PCB headers, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: PC 4/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, Mounting flange: Accessory Item No. 1827570

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