

1728455

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PCB TWIN plug, nominal cross section: 6 mm², color: green, nominal current: 32 A, rated voltage (III/2): 1000 V, contact surface: Sn, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 4, product range: TSPC 5/..-ST, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 5, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Potentials can be easily looped through ideal for BUS applications
- 600 V UL approval in the smallest of dimensions

Commercial data

Item number	1728455
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADFBD
Catalog page	Page 532 (C-1-2013)
GTIN	4046356143462
Weight per piece (including packing)	17.35 g
Weight per piece (excluding packing)	17 g
Customs tariff number	85366990
Country of origin	IN



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Technical data

Product properties

Product type	PCB TWIN plug
Product family	TSPC 5/ST
Product line	COMBICON Connectors L
Туре	Standard
Number of positions	2
Pitch	7.62 mm
Number of connections	4
Number of rows	1
Number of potentials	2
Mounting flange	without

Electrical properties

Properties

- P	
Nominal current I _N	32 A
Nominal voltage U _N	1000 V
Contact resistance	$0.6~\text{m}\Omega$
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

Туре	Standard
Connector system	COMBICON PC 5
Nominal cross section	6 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm ² 10 mm ²
Conductor cross section flexible	0.2 mm² 6 mm²
Conductor cross section AWG	24 8



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Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 4.0 mm
Stripping length	15 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
	1213144 CRIMPFOX CENTRUS 6S
	1213146 CRIMPFOX CENTRUS 6H
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.5 mm²; Length: 10 mm 15 mm
	Cross section: 0.75 mm²; Length: 10 mm 15 mm
	Cross section: 1 mm²; Length: 10 mm 15 mm
	Cross section: 1.5 mm²; Length: 12 mm 15 mm
	Cross section: 2.5 mm²; Length: 12 mm 15 mm
	Cross section: 4 mm²; Length: 12 mm 15 mm
	Cross section: 6 mm²; Length: 12 mm 15 mm
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
	1213144 CRIMPFOX CENTRUS 6S
	1213146 CRIMPFOX CENTRUS 6H
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.5 mm²; Length: 10 mm 15 mm
	Cross section: 0.75 mm²; Length: 12 mm 15 mm
	Cross section: 1 mm²; Length: 12 mm 15 mm
	Cross section: 1.5 mm²; Length: 12 mm 15 mm
	Cross section: 2.5 mm²; Length: 12 mm 15 mm
	Cross section: 4 mm ² ; Length: 12 mm 15 mm

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	T I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0



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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]	15.24 mm
Height [h]	35.05 mm
Length [I]	41.45 mm

Notes

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.

Mechanical tests

Conductor connection

Specification	IEC 60999-1:1999-11
Result	Test passed

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Repeated connection and disconnection

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	$0.2 \text{ mm}^2 / \text{solid} / > 10 \text{ N}$
setpoint/actual value	0.2 mm² / flexible / > 10 N
	10 mm² / solid / > 90 N
	6 mm^2 / flexible / > 80 N

Insertion and withdrawal forces

modulati and mindration force	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	50



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nsertion strength per pos. approx.	6 N
Withdraw strength per pos. approx.	5 N
esistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
plarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
sual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
mension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
ironmental and real-life conditions	
bration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	7.3 kV
Contact resistance R ₁	0.6 mΩ
Contact resistance R ₂	0.7 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 MΩ
imatic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm³/40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	3.31 kV
nbient conditions	
	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (operation)	-40 C 100 C (dependent on the derating curve)
Ambient temperature (operation) Ambient temperature (storage/transport)	-40 °C 70 °C



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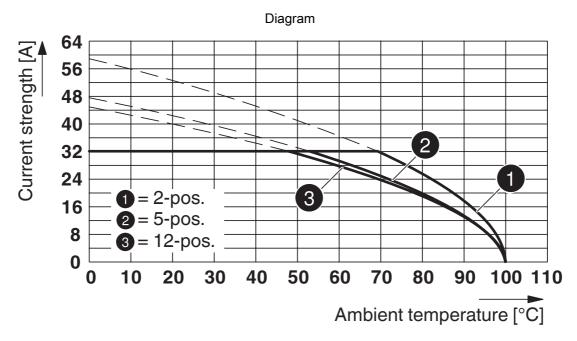
Ambient temperature (assembly)	-5 °C 100 °C
Electrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
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
	·



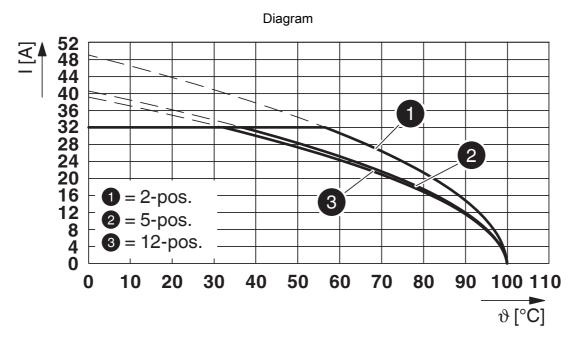
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Drawings



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



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1728455

CULus Recognized Approval ID: E60425-19920722				
	Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	31 A	24 - 8	-
Use group C				
	600 V	31 A	24 - 8	-



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Classifications

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		A.7.7

	ECLASS-13.0	27460202		
ΕT	ETIM			
	ETIM 9.0	EC002638		
۱U	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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