

1849214

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of rows: 1, number of positions: 4, product range: LPC 1,5/..-ST-LR, pitch: 3.81 mm, connection method: Lever Push-in connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MC 1,5, locking: Lock-and-release locking system, mounting method: Lock & Release ejector lever, type of packaging: packed in cardboard

Your advantages

- · Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- · Clear lever positions provide reliable feedback on opened or closed clamping spaces
- · Time-saving push-in connection when lever is closed
- · Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- · Quick and convenient testing using integrated test option

Commercial data

Item number	1849214
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA02
Product key	AABBAC
GTIN	4055626344546
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

Product type	PCB connector
Product family	LPC 1,5/ST-LR
Product line	COMBICON Connectors S
Number of positions	4
Pitch	3.81 mm
Number of rows	1

Electrical properties

Properties

·	
Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	1.4 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm²
Contact connection type	Socket

Interlock

Locking type	Lock-and-release locking system
Mounting type	Lock & Release ejector lever

Conductor connection

Connection method	Lever Push-in connection
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.14 mm² 1.5 mm²
Conductor cross-section flexible	0.14 mm² 1.5 mm²
Conductor cross-section AWG	26 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.14 mm ² 1.5 mm ² (Stripping length: 7 mm 10 mm)
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.14 mm² 0.75 mm² (Stripping length: 7 mm 10 mm)
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 0.75 mm ² (Stripping length: 7 mm 10 mm)
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.5 mm



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Stripping length	10 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm
	Cross section: 0.34 mm²; Length: 7 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 8 mm 10 mm
	Cross section: 1 mm²; Length: 8 mm 10 mm
	Cross section: 1.5 mm²; Length: 10 mm
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm²; Length: 8 mm
	Cross section: 0.25 mm²; Length: 8 mm
	Cross section: 0.34 mm²; Length: 8 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 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

material data medering	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
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

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0



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Dimensions

Specification

	Dimensional drawing	h
	Pitch	3.81 mm
	Width [w]	23.48 mm
	Height [h]	17.22 mm
	Length [I]	27.37 mm
ote	es	
	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.
	chanical tests	
C	onductor connection	150 00000 4 4000 44
	Specification	IEC 60999-1:1999-11
	Result	Test passed
Te	est for conductor damage and slackening	
	Specification	IEC 60999-1:1999-11
	Result	Test passed
R	epeated connection and disconnection	
R	epeated connection and disconnection Specification	IEC 60999-1:1999-11
R		IEC 60999-1:1999-11 Test passed
	Specification	
	Specification Result	
	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force	Test passed
	Specification Result ull-out test Specification	Test passed IEC 60999-1:1999-11
	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N
	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N 0.14 mm² / flexible / > 10 N
Pı	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
Pı	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N
Pı	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N
Pı	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value sertion and withdrawal forces Specification	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N
Pı	Specification Result ull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value sertion and withdrawal forces Specification Result	Test passed IEC 60999-1:1999-11 0.14 mm² / solid / > 10 N 0.14 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N IEC 60512-13-2:2006-02 Test passed

IEC 60068-2-70:1995-12



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Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
vironmental and real-life conditions	
	IEC 60068-2-6:2007-12
/ibration test	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz
/ibration test Specification	

Durability test

Acceleration

Test directions

Test duration per axis

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	1.4 mΩ
Contact resistance R ₂	1.5 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

2.5 h

X-, Y- and Z-axis

50 m/s² (60.1 Hz ... 150 Hz)

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °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

Thermal test | Test group C



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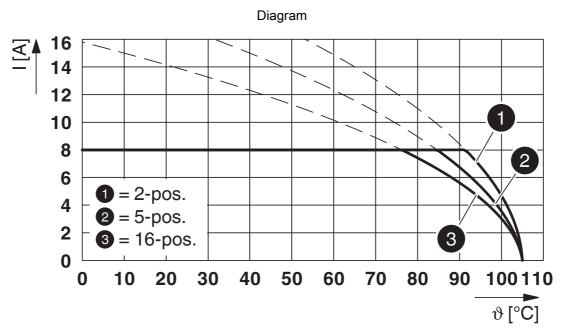
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Temperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm
ckaging specifications	
Type of packaging	packed in cardboard



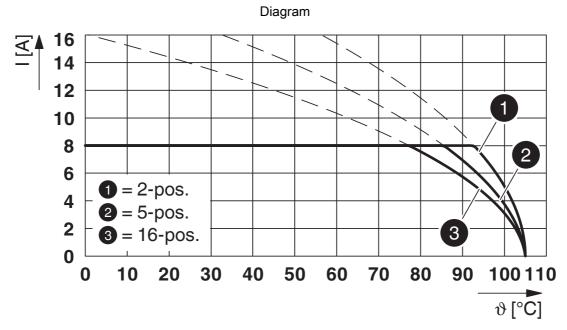
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Drawings



Type: LPC 1,5/...-ST-3,81-LR with MC 1,5/...-GF-3,81-LR



Type: LPC 1,5/...-ST-3,81-LR with MCV 1,5/...-GF-3,81-LR



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1849214

UL Recognized Approval ID: E60425-20210715				
	Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²
F				
	300 V	8 A	26 - 16	-

cULus Approval	CULus Recognized Approval ID: E60425-20210715			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	8 A	26 - 16	-
D				
	300 V	8 A	26 - 16	-

	VDE Zeichengenehmigung Approval ID: 40053722				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		160 V	8 A	-	0.2 - 1.5



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Classifications

ECLASS

	ECLASS-13.0	27460202
	ECLASS-15.0	27460202
ΕΊ	ГІМ	
	ETIM 9.0	EC002638
U	NSPSC	
	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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