

1016518

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PCB direct plug, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, number of potentials: 14, number of rows: 2, number of positions: 7, number of connections: 14, product range: CDDC 1,5/..-PV, pitch: 3.5 mm, connection method: Crimp connection, mounting: SKEDD - Direct plug-in technology, conductor/PCB connection direction: 90 °, pin layout: Linear pinning, plug-in system: SKEDD, locking: Snap-in locking, mounting method: Latching flange, type of packaging: packed in cardboard

Your advantages

- · SKEDD direct plug-in technology enables flexible positioning on the PCB
- · Reduced component and process costs: simple insertion by hand and vibration-resistant connection
- · Contacts arranged in a double row enable high packing density in a compact area
- · Wide range of applications, thanks to suitability for PCBs with chemically tin-plated or Hot Air Leveling (HAL) surface
- · Cost-effective connection of crimped conductors in large quantities
- · Tools for manual and automatic crimping available as an option

Commercial data

Item number	1016518
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AABDAA
Product key	AABDAA
GTIN	4055626498713
Weight per piece (including packing)	3.56 g
Weight per piece (excluding packing)	3.04 g
Customs tariff number	85472000
Country of origin	DE



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Technical data

Product properties

Product type	PCB direct plug
Product family	CDDC 1,5/PV
Product line	COMBICON Connectors S
Number of positions	7
Pitch	3.5 mm
Number of connections	14
Number of rows	2
Number of potentials	14
Mounting flange	Latching flange
Pin layout	Linear pinning

Electrical properties

Properties

- F	
Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	1.5 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	SKEDD
Nominal cross section	1.5 mm²

Interlock

Locking type	Snap-in locking
Mounting flange	Latching flange

Conductor connection

Connection method	Crimp connection
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16

Mounting

Mounting type	SKEDD - Direct plug-in technology



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Pin layout	Linear pinning
erial specifications	
aterial data - contact	
Metal surface contact area (top layer)	Tin (Sn)
ivicial surface contact area (top layer)	Till (Oll)
aterial 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
aterial data – actuating element	
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

Notes

Note on the contact	The information on the basic material and the finish properties of the crimp contacts is to be found in the E-Shop in the technical data for the respective crimp contact.
Note on application	All laboratory tests are performed in combination with the crimp contacts specified as accessories.
Note on application	The current depends on the crimp contact and conductor cross section used.
Note on application	The corresponding crimp contacts are to be found in the "Accessories" tab.
Note on application	The crimp contacts may only be processed with approved crimping tools.

Dimensions



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Dimensional drawing	h
Pitch	3.5 mm
Width [w]	31.8 mm
Height [h]	19.6 mm
Length [I]	13 mm
Installed height	16 mm
PCB design	
Pin spacing	7.00 mm
Mechanical tests Tensile strength of crimp connections	
Result	Test passed
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / flexible / > 18 N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	4 N
Withdraw strength per pos. approx.	3 N
Contact holder in insert	
Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
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



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Result	Test passed
trical tests	
ermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
r 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

Environmental and real-life conditions

Vibration 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	50 m/s² (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test

Burdonity tool		
Specification	IEC 60512-9-1:2010-03	
Impulse withstand voltage at sea level	2.95 kV	
Contact resistance R ₁	1.5 mΩ	
Contact resistance R ₂	1.6 mΩ	
Insertion/withdrawal cycles	25	



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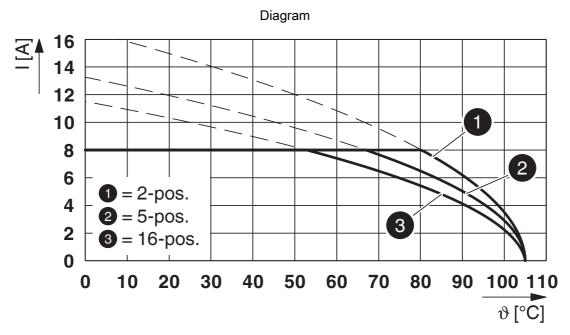
Insulation resistance, neighboring positions	> 5 MΩ
matic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	1.39 kV
ocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	300 m/s²
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
bient conditions	
Ambient temperature (operation)	-55 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (storage/transport) Relative humidity (storage/transport)	-40 °C 70 °C 30 % 70 %



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Drawings



Type: CDDC 1,5/...-PV-3,5



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Approvals

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cULus Recogni Approval ID: E60425	cULus Recognized Approval ID: E60425-20160718			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	150 V	8 A	26 - 16	-
Use group D				
	300 V	8 A	26 - 16	-

VDE approval of drawings Approval ID: 40044617				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	160 V	8 A	-	0.14 - 1.5



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Classifications

	ECLASS-13.0	27460202	
Ε٦	ETIM		
	ETIM 9.0	EC002638	
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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