1999026

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PCB headers, nominal cross section: 16 mm², color: green, nominal current: 76 A (41 A in combination with PC 6 plug), rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 6-16/..-G1F, pitch: 10.16 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 16, Pin connector pattern alignment: Standard, locking: Screw locking, mounting: Threaded flange, type of packaging: packed in cardboard

Your advantages

- · Well-known mounting principle allows worldwide use
- Screwable flange for superior mechanical stability
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies

Commercial Data

Item number	1999026	
Packing unit	50 pc	
Minimum order quantity	50 pc	
Sales Key	AAE	
Product Key	AAESBB	
Catalog Page	Page 567 (C-1-2013)	
GTIN	4046356038522	
Weight per Piece (including packing)	22.226 g	
Weight per Piece (excluding packing)	19.968 g	
Customs tariff number	85366930	
Country of origin	PL	

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Technical Data

Product properties

Туре	Headers	
Product line	COMBICON Connectors XL	
Product type	PCB headers	
Product family	PC 6-16/G1F	
Number of positions	4	
Pitch	10.16 mm	
Number of connections	4	
Number of rows	1	
Mounting flange	Threaded flange	
Number of potentials	4	
Pin layout	Linear pinning	
Solder pins per potential	3	

Electrical properties

Nominal current I _N	76 A (41 A in combination with PC 6 plug)
Nominal voltage U _N	1000 V
Degree of pollution	3
Contact resistance	0.3 mΩ
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

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Flange	
Tightening torque	0.3 Nm 0.7 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	Electroplated silver
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)
Metal surface contact area (middle layer)	Nickel (2 - 4 µm Ni)
Metal surface soldering area (top layer)	Silver (4 - 8 µm Ag)

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Metal surface soldering area (middle layer)	Nickel (2 - 4 µm Ni)
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
Material data – actuating element	
Color ()	()

Notes

General

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.

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Dimensions

 Dimensional drawing
 Image: Constraint of the system

 Pitch
 10.16 mm

 Width [w]
 58.4 mm

 Height [h]
 17.4 mm

 Length [I]
 34 mm

 Installed height
 13.4 mm

 Solder pin length [P]
 4 mm

Mechanical tests

Pin spacing

Test for conductor damage and slackening
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Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Pull-out test Specification	IEC 60999-1:1999-11

10.16 mm



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0.75 mm² / flexible / > 30 N		
16 mm² / solid / > 100 N		
16 mm² / flexible / > 100 N		
Test passed		
50		
14 N		
12 N		
IEC 60999-1:1999-11		
IEC 60512-15-1:2008-05		
Test passed		
IEC 60068-2-70:1995-12		
Test passed		
IEC 60512-13-5:2006-02		
Test passed		
IEC 60512-1-1:2002-02		
Test passed		
IEC 60512-1-2:2002-02		
Test passed		
IEC 60512-5-1:2002-02		
8		
IEC 60512-3-1:2002-02		
> 5 MΩ		
IEC 60664-1:2007-04		





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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

Environmental and real-life conditions

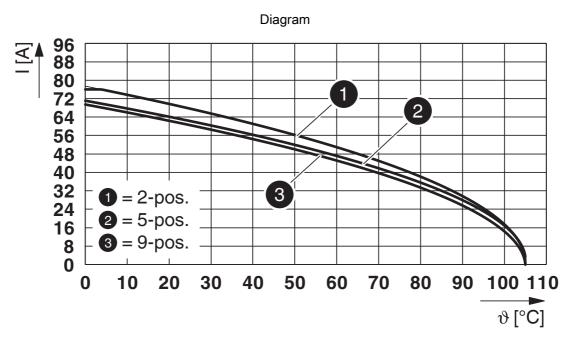
pecification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R ₁	0.3 mΩ
Contact resistance R ₂	0.3 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 MΩ
imatic 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	4.26 kV
mbient 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
kaging specifications	
Type of packaging	packed in cardboard



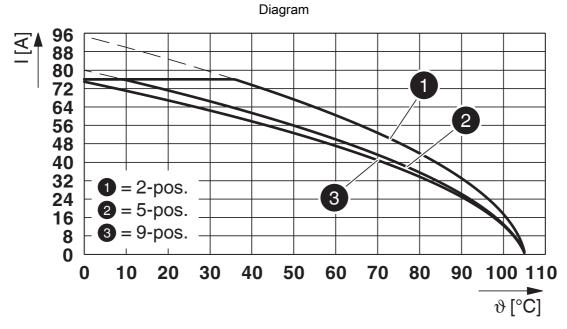
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Drawings



Type: PC 16/...-STF-10,16 with PC 6-16/...-G1F-10,16

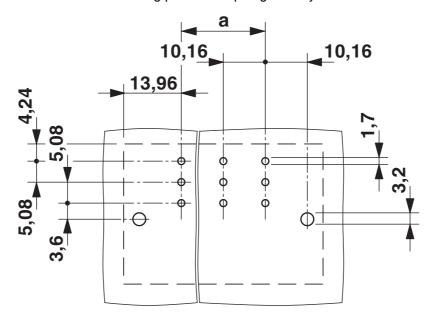


Type: SPC 16/...-STF-10,16 with PC 6-16/...-G1F-10,16



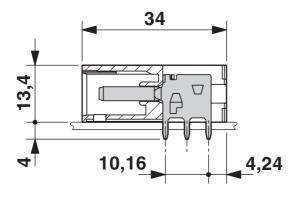
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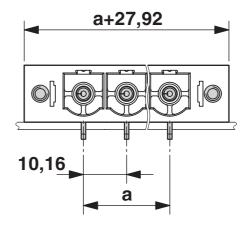
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Drilling plan/solder pad geometry

Dimensional drawing







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Approvals

EAC Approval ID: B.01687

CULus Recognized Approval ID: E60425-20040202				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	300 V	66 A	-	-
	300 V	66 A	-	-
	600 V	5 A	-	-
Approval ID: DE1-666				

Approvariu: DE 1-6667	Approval ID. DE 1-00077			
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	-	76 A	-	-

VDE Zeichengenehmigung Approval ID: 40055586				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	-	76 A	-	-

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Classifications

ECLASS

ECLASS-11.0 2	27460201
ECLASS-12.0 2	27460201
ECLASS-13.0 2	27460201

ETIM

	ETIM 8.0	EC002637
UNSPSC		
	UNSPSC 21.0	39121400



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	

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Accessories

CP-PC RD - Coding profile

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

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



DFK-PC 16-SS - Accessories

1705449 https://www.phoenixcontact.com/in/products/1705449



Screw set for DFK-PC 16... connectors

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SPC 16/ 4-STF-10,16 - PCB connector

1711394

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PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SPC 16/..-STF, pitch: 10.16 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

SPC 16/ 4-STF-SH-10,16 - PCB connector

1711488 https://www.phoenixcontact.com/in/products/1711488



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SPC 16/..-STF-SH, pitch: 10.16 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

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TPC 16/ 4-STF-10,16 - PCB connector

1715277

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PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 8, product range: TPC 16/..-STF, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 50 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

PC 6/ 4-STF-10,16 - PCB connector

1913594 https://www.phoenixcontact.com/in/products/1913594



PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 6/..-STF, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

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PC 16/ 4-STF-10,16 - PCB connector

1967472

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PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 16/..-STF, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

PC 16/ 4-STF-SH-10,16 - PCB connector

1970359 https://www.phoenixcontact.com/in/products/1970359



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 16/..-STF-SH, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16, locking: Screw locking, mounting: Screw flange, type of packaging: packed in cardboard

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