1999026

https://www.phoenixcontact.com/us/products/1999026



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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, contact connection type: 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 mechanism, 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	AA05
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



https://www.phoenixcontact.com/us/products/1999026



Technical data

Product properties

Product type	PCB headers
Product family	PC 6-16/G1F
Product line	COMBICON Connectors XL
Туре	Headers
Number of positions	4
Pitch	10.16 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting flange	Threaded flange
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)



https://www.phoenixcontact.com/us/products/1999026

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

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.

Dimensions

Dimensional drawing

	A A A A A A A A A A A A A A A A A A A
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
Pin dimensions	1 x 1.2 mm
PCB design	

Pin spacing	10.16 mm
Hole diameter	1.7 mm

Mechanical tests

Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Dimension check Specification	IEC 60512-1-2:2002-02







https://www.phoenixcontact.com/us/products/1999026

Resistance of inscriptions

Result Test passed Polarization and coding EC 60512-13-52006-02 Result Test passed Contact holder in insert Specification Specification IEC 60512-13-12008-05 Contact holder in insert Specification Requirements >20 N Test passed Insertion and withdrawal forces Test passed Requirements >20 N 50 Insertion and withdrawal forces 50 Result Test passed No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Specification IEC 60512-5-12002-02 Tested number of positions 8 Specification IEC 60512-5-12002-02 Tested number of positions 5 MC Specification IEC 60512-5-12002-02 Insulation resistance IEC 60512-5-12002-02 Specification IEC 60512-5-12002-02 Insulation resistance IEC 60512-5-12002-02 Specification IEC 60512-5-12002-02 Insulatin material group	Specification	IEC 60068-2-70:1995-12
SpecificationIEC 60512-13-52006-02ResultTest passedContlact holder in insertIEC 60512-15-12008-05Contlact holder in insertIEC 60512-15-12008-05Contlact holder in insertRequirements >20 NInsertion and withdrawal forcesTest passedResultTest passedNo. of cycles50 ActantationInsertion strength per pos. approx.14 NWithdraw strength per pos. approx.12 NElectrical testsSpecificationSpecificationIEC 60512-5-12002-02Tested number of positions8SpecificationIEC 60512-3-12002-02Tested number of positions5 MCSpecificationIEC 60512-3-12002-02Tested number of positions5 MCSpecificationIEC 60512-3-12002-02Insulation resistanceSpecificationSpecificationIEC 60512-3-12002-02Insulation resistance, neighboring positions> 5 MCSpecificationIEC 60512-3-12002-02Insulation resistance, Neighboring positions> 5 MCRated insulation voltage (III/2)SimRa	Result	Test passed
SpecificationIEC 60512-13-52006-02ResultTest passedContlact holder in insertIEC 60512-15-12008-05Contlact holder in insertIEC 60512-15-12008-05Contlact holder in insertRequirements >20 NInsertion and withdrawal forcesTest passedResultTest passedNo. of cycles50 ActantationInsertion strength per pos. approx.14 NWithdraw strength per pos. approx.12 NElectrical testsSpecificationSpecificationIEC 60512-5-12002-02Tested number of positions8SpecificationIEC 60512-3-12002-02Tested number of positions5 MCSpecificationIEC 60512-3-12002-02Tested number of positions5 MCSpecificationIEC 60512-3-12002-02Insulation resistanceSpecificationSpecificationIEC 60512-3-12002-02Insulation resistance, neighboring positions> 5 MCSpecificationIEC 60512-3-12002-02Insulation resistance, Neighboring positions> 5 MCRated insulation voltage (III/2)SimRa	Polarization and coding	
Result Test passed Specification IEC 60512-15-1:2008-05 Contract holder in insert Test passed Requirements >20 N Test passed Insertion and withdrawal forces Requirements >20 N Insertion and withdrawal forces Result Result Test passed No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Specification Thermal test Test group C Specification Specification IEC 60512-5-1:2002-02 Tested number of positions 8 Insulation resistance. Specification Specification IEC 60512-3-1:2002-02 Insulation resistance. IES dot60-1:2007-04 Insulation resistance. IEC 60664-1:2007-04 Insulation resistance. Specification Specification IEC 60664-1:2007-04 Insulation voitage (II/3) 8 kV Rated insulation voitage (II/3) 8 kV Rated insulation voitage (II/3) 8 kV <td< td=""><td></td><td>IEC 60512-13-5:2006-02</td></td<>		IEC 60512-13-5:2006-02
Contact holder in insert Specification IEC 60512-15-1:2008-05 Contact holder in insert Test passed Contact holder in insert Test passed Contact holder in insert Test passed Requirements >20 N So Insertion and withdrawal forces So Result Test passed No. of cycles So Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Specification Specification IEC 60512-5-1:2002-02 Tested number of positions 8 Specification IEC 60512-3-1:2002-02 Insulation resistance Issulation resistance Insulation resistance Issulation resistance Specification IEC 60512-3-1:2002-02 Insulation resistance, neighboring positions > 50 Vicearances and creepage distances Issulation resistance, neighboring positions Specification IEC 60664-1:2007-04 Insulation rotitage (IIV3) 8 kV Rated insulation voltage (IIV3) 8 kV Ra		Test passed
Specification IEC 60512-15-12:008-05 Contact holder in insert Requirements >20 N Test passed Insertion and withdrawal forces Test passed Result Test passed No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Specification Thermal test Test group C Specification Specification IEC 60512-51-12002-02 Tested number of positions 8 Insulation resistance Specification Insulation resistance, neighboring positions > 5 MQ Air clearances and creepage distances Specification Specification on training index (IEC 60112) CTI 600 Rated insulation roltage (III/3) 1000 V Rated surge voltage (III/3) 8 kV minimum clearance value - non-homogenous field (III/2) 8 km Rated insulation voltage (III/2) 8 kW minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (III/2) 8 mm Rated insulation voltage (III/2) 8 kW		
Contact holder in insert Requirements >20 N Test passed Insertion and withdrawal forces Test passed Result Test passed No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Electrical tests Thermal test Test group C Electroscion Specification EC 60512-5-1:2002-02 Tested number of positions 8 Insulation resistance Specification Specification EC 60512-5-1:2002-02 Insulation resistance Specification Specification EC 60512-5-1:2002-02 Insulation resistance Specification Specification EC 60512-5-1:2002-02 Insulation resistance, neighboring positions > 5 MQ Air clearances and creepage distances EC 60664-1:2007-04 Insulation resistance, neighboring positions > 5 MQ Rated insulation voltage (III/3) 8 k/V Rated insulation voltage (III/2) 1000 V Rated insulation voltage (III/2) 8 k/V minimu	Contact holder in insert	
Requirements >20 N Insertion and withdrawal forces Result Test passed No. of cycles 50 No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Formal test Test group C Specification IEC 60512-51-2002-02 Tested number of positions 8 Insulation resistance Specification Insulation resistance 55 MQ Specification IEC 60512-31-2002-02 Insulation resistance 8 Specification Specification Insulation resistance, neighboring positions > 5 MQ Air clearances and creepage distances Specification Specification IC C60664-1:2007-04 Insulation voltage (III/3) 000 V Rated insulation voltage (III/3) 8 kV Insulation voltage (III/3) 1000 V Rated insulation voltage (III/2) 1000 V Rated insulation voltage (III/2) 8 kV minimum creepage distance (III/2) 8 mm	Specification	IEC 60512-15-1:2008-05
Result Test passed No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Thermal test J Test group C Specification IEC 60512-5-1:2002-02 Tested number of positions 8 Insulation resistance Specification IEC 60512-3-1:2002-02 Insulation resistance \$ Specification IEC 60512-3-1:2002-02 Insulation resistance \$ Specification IEC 60512-3-1:2002-02 Insulation resistance, neighboring positions > 5 MQ Air clearances and creepage distances J Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 6012) CTI 600 Rated insulation voltage (III/3) 8 k/V minimum clearance value - non-homogenous field (III/3) 8 k/V minimum clearance value - non-homogenous field (III/2) 8 run minimum clearance value - non-homogenous field (III/2) 8 run		Test passed
No. of cycles 50 Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Specification Insurant test Test group C Specification Tested number of positions Becification Insulation resistance Specification Insulation resistance, neighboring positions Specification Insulation resistance, neighboring positions Specification Insulation resistance, neighboring positions Specification Insulation resistance (III/2) Specification Insulation resistance (III/2) Specification Insulation voltage (III/2) Insulation voltage (III/2) Insulation voltage (III/2) No Voltage (III/2) Rated insulation voltage (III/2) Ininimum clearance value - non-homogenous field (IIII	Insertion and withdrawal forces	
Insertion strength per pos. approx. 14 N Withdraw strength per pos. approx. 12 N Electrical tests Formal test Test group C Specification IEC 60512-51:2002-02 Tested number of positions 8 Insulation resistance Specification IEC 60512-31:2002-02 Insulation resistance 5 Specification IEC 60512-31:2002-02 Insulation resistance 5 Specification IEC 60512-31:2002-02 Insulation resistance, neighboring positions > 5 MQ Air clearances and creepage distances Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (II/3) 8 kV minimum creepage distance (III/3) 8 kV minimum creepage distance (III/3) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm minimum creepage distance (III/2) 8 mm Rated insulation voltage (III/2) 8 mm	Result	Test passed
Withdraw strength per pos. approx. 12 Ν Electrical tests Internal test Test group C Internal	No. of cycles	50
Flectrical tests Thermal test Test group C Specification IEC 60512-5-1:2002-02 Tested number of positions 8 Insulation resistance IEC 60512-3-1:2002-02 Specification IEC 60512-3-1:2002-02 Insulation resistance > 5 MQ Access and creepage distances Specification Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 8 kV minimum clearance value - non-homogenous field (III/3) 8 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 Rated insulation voltage (III/2) 8 kV minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value	Insertion strength per pos. approx.	14 N
Thermal test Test group C Specification IEC 60512-5-1:2002-02 Tested number of positions 8 Insulation resistance IEC 60512-3-1:2002-02 Specification IEC 60512-3-1:2002-02 Insulation resistance, neighboring positions > 5 MQ Air clearances and creepage distances Specification Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 8 kV minimum clearance value - non-homogenous field (II/3) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm minimum clearance value - non-homogenous field (II/2) 8 mm	Withdraw strength per pos. approx.	12 N
SpecificationIEC 60512-5-1:2002-02Tested number of positions8Insulation resistanceIEC 60512-3-1:2002-02SpecificationIEC 60512-3-1:2002-02Insulation resistance, neighboring positions> 5 MQAir clearances and creepage distances [SpecificationIEC 60664-1:2007-04Insulating material groupIComparative tracking index (IEC 60112)CTI 600Rated insulation voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmRated surge voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmRated surge voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmRated surge voltage (III/2)6 kVminimum clearance value - non-homogenous field (III/2)8 mmRated surge voltage (III/2)6 kVminimum clearance value - non-homogenous field (III/2)8 mmRated insulation voltage (III/2)6 kV	Electrical tests	
Tested number of positions8Insulation resistanceIEC 60512-3-1:2002-02SpecificationIEC 60512-3-1:2002-02Insulation resistance, neighboring positions> 5 MΩAir clearances and creepage distances SpecificationIEC 60664-1:2007-04Insulating material groupIComparative tracking index (IEC 60112)CTI 600Rated insulation voltage (III/3)8 kVRated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmRated surge voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmRated surge voltage (III/2)8 mmRated surge voltage (III/2)8 kVRated surge voltage (III/2)8 kVRated surge voltage (III/2)8 kVRated surge voltage (III/2)8 mmRated insulation voltage (III/2)8 mmRated surge voltage (III/2)8 mmRated surge voltage (III/2)8 mmRated surge voltage (III/2)8 mmRated surge voltage (III/2)5 mm	Thermal test Test group C	
Insulation resistance IEC 60512-3-1:2002-02 Insulation resistance, neighboring positions > 5 MΩ Air clearances and creepage distances > 5 MΩ Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 8 kV minimum clearance value - non-homogenous field (III/3) 8 mm Rated surge voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV minimum clearance value - non-homogenous field (III/2) 8 mm Rated surge voltage (III/2) 1000 V Rated surge voltage (III/2) 1000 V Rated insulation voltage (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (II/2) 6 kV minimum clearance value - non-homogenous field (III/2) 6 kV	Specification	IEC 60512-5-1:2002-02
SpecificationIEC 60512-3-1:2002-02Insulation resistance, neighboring positions> 5 MΩAir clearances and creepage distances SpecificationIEC 60664-1:2007-04Insulating material groupIComparative tracking index (IEC 60112)CTI 600Rated insulation voltage (III/3)1000 VRated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmRated insulation voltage (III/2)000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 kVRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 kVRated surge voltage (III/2)8 kVRated insulation voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 kVRated insulation voltage (III/2)6 kVminimum clearance value - non-homogenous field (III/2)5.5 mm	Tested number of positions	8
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 Rated insulation voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV minimum creepage distance (III/2) 8 mm Rated insulation voltage (III/2) 8 kV Rated surge voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV Rated surge voltage (III/2) 8 kV minimum clearance value - non-homogenous field (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (III/2) 8 mm Rated insulation voltage (III/2) 6 kV Rated insulation voltage (III/2) 6 kV Rated surge voltage (III/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	Insulation resistance	
Air clearances and creepage distances Specification IEC 60664-1:2007-04 Insulating material group I 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 Rated insulation voltage (III/2) 1000 V Rated surge voltage (III/2) 8 kV minimum clearance value - non-homogenous field (III/3) 8 mm Rated insulation voltage (III/2) 1000 V Rated surge voltage (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (III/2) 8 mm minimum clearance value - non-homogenous field (III/2) 8 mm Rated insulation voltage (III/2) 6 kV Rated surge voltage (III/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	Specification	IEC 60512-3-1:2002-02
SpecificationIEC 60664-1:2007-04Insulating material groupIComparative tracking index (IEC 60112)CTI 600Rated insulation voltage (III/3)1000 VRated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 mmMinimum clearance value - non-homogenous field (III/2)1000 VRated insulation voltage (III/2)8 kVRated surge voltage (III/2)8 mmMinimum clearance value - non-homogenous field (III/2)8 mmRated insulation voltage (III/2)8 mmRated surge voltage (III/2)6 kVRated surge voltage (III/2)6 kVMinimum clearance value - non-homogenous field (II/2)5.5 mm	Insulation resistance, neighboring positions	> 5 MΩ
SpecificationIEC 60664-1:2007-04Insulating material groupIComparative tracking index (IEC 60112)CTI 600Rated insulation voltage (III/3)1000 VRated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 mmMinimum clearance value - non-homogenous field (III/2)1000 VRated insulation voltage (III/2)8 kVRated surge voltage (III/2)8 mmMinimum clearance value - non-homogenous field (III/2)8 mmRated insulation voltage (III/2)8 mmRated surge voltage (III/2)6 kVRated surge voltage (III/2)6 kVMinimum clearance value - non-homogenous field (II/2)5.5 mm	Air clearances and creepage distances	
Comparative tracking index (IEC 60112)CTI 600Rated insulation voltage (III/3)1000 VRated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmminimum creepage distance (III/3)12.5 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmRated surge voltage (III/2)8 mmRated surge voltage (III/2)8 mmMinimum clearance value - non-homogenous field (III/2)8 mmRated insulation voltage (III/2)1000 VRated insulation voltage (III/2)6 kVRated surge voltage (II/2)5.5 mm		IEC 60664-1:2007-04
Rated insulation voltage (III/3)1000 VRated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmminimum creepage distance (III/3)12.5 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmRated surge voltage (III/2)8 mmRated surge voltage (III/2)6 kVRated insulation voltage (II/2)6 kVRated surge voltage (II/2)5.5 mm	Insulating material group	1
Rated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmminimum creepage distance (III/3)12.5 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmminimum creepage distance (III/2)8 mmRated insulation voltage (III/2)6 mmRated insulation voltage (III/2)5.5 mm	Comparative tracking index (IEC 60112)	CTI 600
Rated surge voltage (III/3)8 kVminimum clearance value - non-homogenous field (III/3)8 mmminimum creepage distance (III/3)12.5 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmminimum creepage distance (III/2)8 mmRated insulation voltage (III/2)6 mmRated insulation voltage (III/2)5.5 mm	Rated insulation voltage (III/3)	1000 V
minimum creepage distance (III/3)12.5 mmRated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmminimum creepage distance (III/2)8 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm		8 kV
Rated insulation voltage (III/2)1000 VRated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmminimum creepage distance (III/2)8 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	minimum clearance value - non-homogenous field (III/3)	8 mm
Rated surge voltage (III/2)8 kVminimum clearance value - non-homogenous field (III/2)8 mmminimum creepage distance (III/2)8 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	minimum creepage distance (III/3)	12.5 mm
minimum clearance value - non-homogenous field (III/2)8 mmminimum creepage distance (III/2)8 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	Rated insulation voltage (III/2)	1000 V
minimum creepage distance (III/2)8 mmRated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	Rated surge voltage (III/2)	8 kV
Rated insulation voltage (II/2)1000 VRated surge voltage (II/2)6 kVminimum clearance value - non-homogenous field (II/2)5.5 mm	minimum clearance value - non-homogenous field (III/2)	8 mm
Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum creepage distance (III/2)	8 mm
minimum clearance value - non-homogenous field (II/2) 5.5 mm	Rated insulation voltage (II/2)	1000 V
	Rated surge voltage (II/2)	6 KV
minimum creepage distance (II/2) 5.5 mm	minimum clearance value - non-homogenous field (II/2)	5.5 mm
	minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

PHŒNIX CONTACT



1999026

https://www.phoenixcontact.com/us/products/1999026

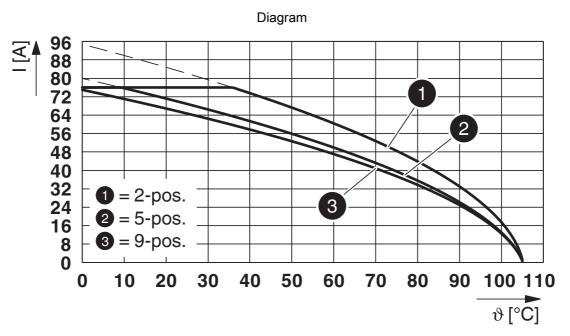
equency	10 - 150 - 10 Hz
weep speed	1 octave/min
nplitude	0.35 mm (10 Hz 60.1 Hz)
weep speed	5g (60.1 Hz 150 Hz)
est duration per axis	2.5 h
bility test	
pecification	IEC 60512-9-1:2010-03
pulse withstand voltage at sea level	9.8 kV
ontact resistance R ₁	0.3 mΩ
ontact resistance R ₂	0.3 mΩ
sertion/withdrawal cycles	50
sulation resistance, neighboring positions	> 5 MΩ
atic test	
pecification	ISO 6988:1985-02
prrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
nermal stress	105 °C/168 h
ower-frequency withstand voltage	4.26 kV
ient conditions	
nbient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
nbient temperature (storage/transport)	-40 °C 70 °C
elative humidity (storage/transport)	30 % 70 %
nbient temperature (assembly)	-5 °C 100 °C



1999026

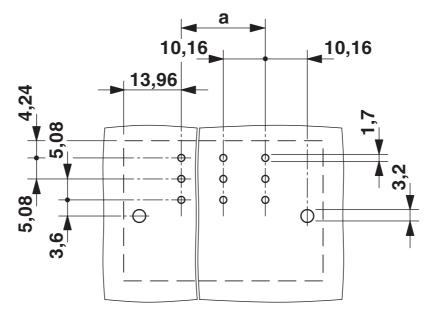
https://www.phoenixcontact.com/us/products/1999026

Drawings



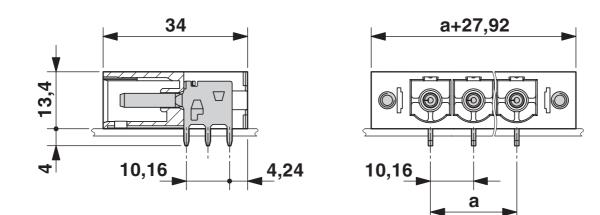
Type: SPC 16/...-STF-10,16 with PC 6-16/...-G1F-10,16

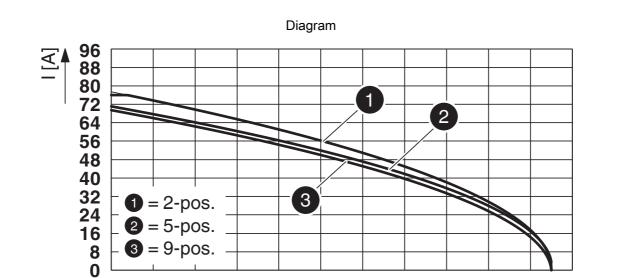






Dimensional drawing







100 110

ϑ[°Ē]



1999026

https://www.phoenixcontact.com/us/products/1999026

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1999026

CULus Recogniz Approval ID: E60425	CULus Recognized Approval ID: E60425-20040202			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	66 A	-	-
Use group C				
	300 V	66 A	-	-
Use group D				
	600 V	5 A	-	-



Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
1000 V	76 A	-	-

1999026

https://www.phoenixcontact.com/us/products/1999026



Classifications

ECLASS

ECLASS-12.0 27460201	ECLASS-11.0	27460201
FOLASS 43.0	ECLASS-12.0	27460201
ECLASS-13.0 27460201	ECLASS-13.0	27460201

ETIM

	ETIM 9.0	EC002637
UN	NSPSC	
	UNSPSC 21.0	39121400

1999026

https://www.phoenixcontact.com/us/products/1999026



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%		

1999026

https://www.phoenixcontact.com/us/products/1999026



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



DFK-PC 16-SS - Accessories

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



Screw set for DFK-PC 16... connectors

1999026 https://www.phoenixcontact.com/us/products/1999026 **PHŒNIX** CONTACT

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

1711394

https://www.phoenixcontact.com/us/products/1711394



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: 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 mechanism, mounting: Screw flange, type of packaging: packed in cardboard

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

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



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: 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 mechanism, mounting: Screw flange, type of packaging: packed in cardboard

1999026 https://www.phoenixcontact.com/us/products/1999026



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

1715277

https://www.phoenixcontact.com/us/products/1715277



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: 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 mechanism, mounting: Screw flange, type of packaging: packed in cardboard

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

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



PCB connector, nominal cross section: 6 mm², color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: 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 mechanism, mounting: Screw flange, type of packaging: packed in cardboard

1999026 https://www.phoenixcontact.com/us/products/1999026



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

1967472

https://www.phoenixcontact.com/us/products/1967472



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: 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 mechanism, mounting: Screw flange, type of packaging: packed in cardboard

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

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



PCB connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: 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 mechanism, mounting: Screw flange, type of packaging: packed in cardboard

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com