

HSCP-SP 1,5-18-IO-7035 - PCB connector



1569965

<https://www.phoenixcontact.com/us/products/1569965>

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PCB direct plug, nominal cross section: 1.5 mm², color: light gray, nominal current: 5 A, rated voltage (III/2): 63 V, number of potentials: 18, number of rows: 2, number of positions: 18, number of connections: 18, pitch: 5 mm, connection method: Push-in spring connection, mounting: Direct plug-in method, conductor/PCB connection direction: 0 °, locking: Snap-in locking, 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
- Intuitive operation due to color-coded actuating push button
- Operation and conductor connection from one direction enable integration into front of device
- Quick and convenient testing using integrated test option
- User-friendly front connection plug for high contact densities

Commercial data

Item number	1569965
Packing unit	35 pc
Minimum order quantity	35 pc
Sales key	AC15
Product key	ACHEBF
GTIN	4067923057654
Weight per piece (including packing)	16.65 g
Weight per piece (excluding packing)	16.65 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Product properties

Product type	PCB direct plug
Product family	HSCP-SP 1,5-...-IO-..
Number of positions	18
Pitch	5 mm
Number of connections	18
Number of rows	2
Number of potentials	18
Mounting type	without

Electrical properties

Properties

Nominal current I_N	5 A
Nominal voltage U_N	63 V
Rated voltage (III/2)	63 V
Rated surge voltage (III/2)	1.5 kV
Rated voltage (II/2)	63 V
Rated surge voltage (II/2)	0.8 kV

Connection data

Connection technology

Type	Direct plug connector
Nominal cross section	1.5 mm ²

Interlock

Locking type	Snap-in locking
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Conductor connection

Connection method	Push-in spring connection
Conductor cross-section rigid	0.34 mm ² ... 1.5 mm ²
Conductor cross-section flexible	0.34 mm ² ... 1.5 mm ²
Conductor cross-section AWG	22 ... 16
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.34 mm ² ... 1.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.34 mm ² ... 1 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm ² ... 0.75 mm ²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.9 mm
Stripping length	10 mm

Mounting

Mounting type	Direct plug-in method
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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

Material data - housing

Color (Housing)	light gray (7035)
Insulating material	PBT/PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material data – actuating element

Color (Actuating element)	deep orange (2011)
Insulating material	POM
Flammability rating according to UL 94	V0

Notes

Recommendation	Further information and detailed dimensions are available in the download area.
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Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	<ul style="list-style-type: none"> • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	<ul style="list-style-type: none"> • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<ul style="list-style-type: none"> • The item is intended to be an unencapsulated plug for installation in a housing. • Operate the connector only when it is fully plugged in.

Dimensions

Width [w]	11.7 mm
Height [h]	20.9 mm
Length [l]	72.11 mm

Mechanical tests

Conductor connection

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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 setpoint/actual value	0.34 mm ² / solid / > 15 N
	0.34 mm ² / solid / > 15 N
	1.5 mm ² / solid / > 40 N
	1.5 mm ² / flexible / > 40 N

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	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
Result	Test passed

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	18

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	I
Rated insulation voltage (III/2)	63 V
Rated surge voltage (III/2)	1.5 kV
minimum clearance value - non-homogenous field (III/2)	0.5 mm
minimum creepage distance (III/2)	0.63 mm

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Rated insulation voltage (II/2)	63 V
Rated surge voltage (II/2)	0.8 kV
minimum clearance value - non-homogenous field (II/2)	0.2 mm
minimum creepage distance (II/2)	0.63 mm

Environmental and real-life conditions

Durability test

Specification	IEC 60512-9-1:2010-03
Insertion/withdrawal cycles	50

Climatic test

Specification	IEC 61984:2008-10
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	0.5 kV

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	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	15g
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 70 °C (dependent on the derating curve)

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	packed in cardboard
Outer packaging type	Carton

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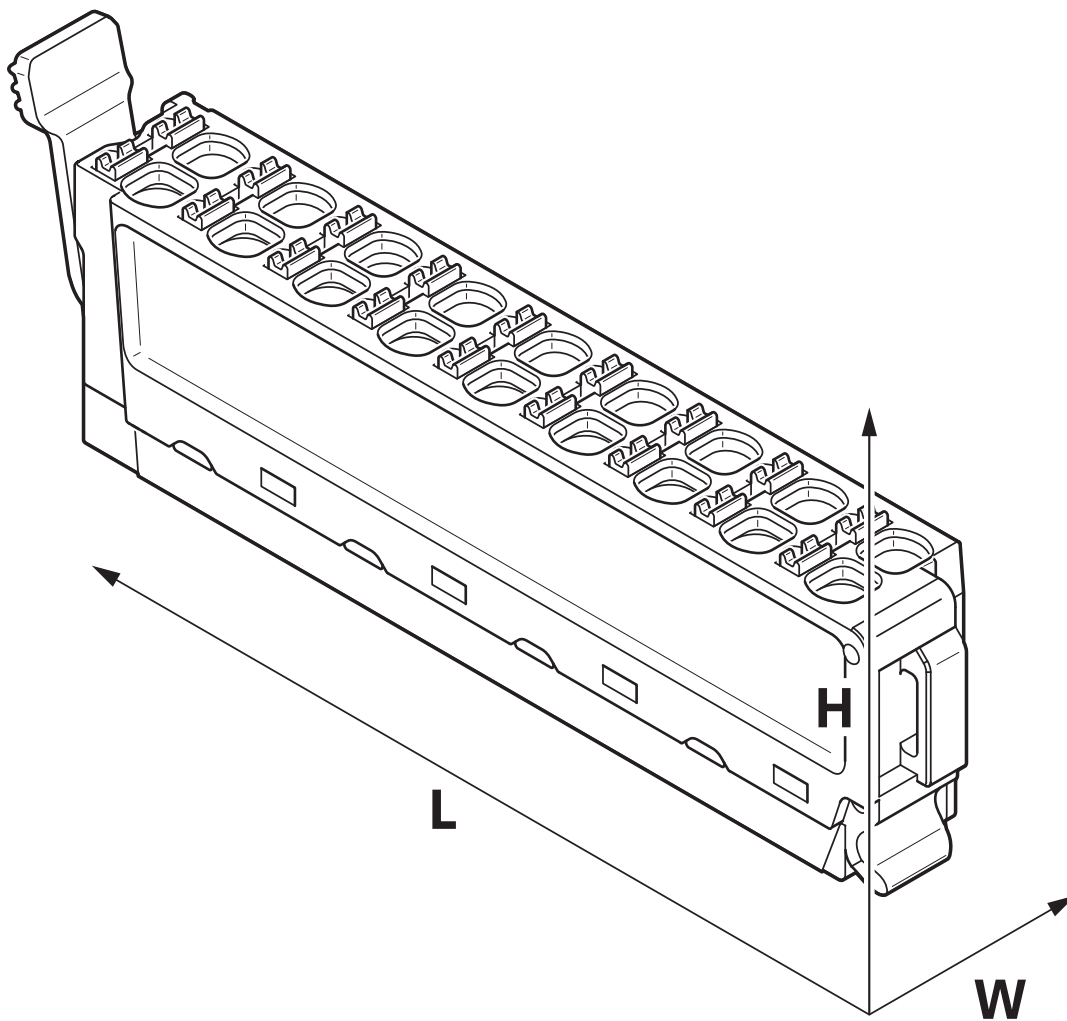


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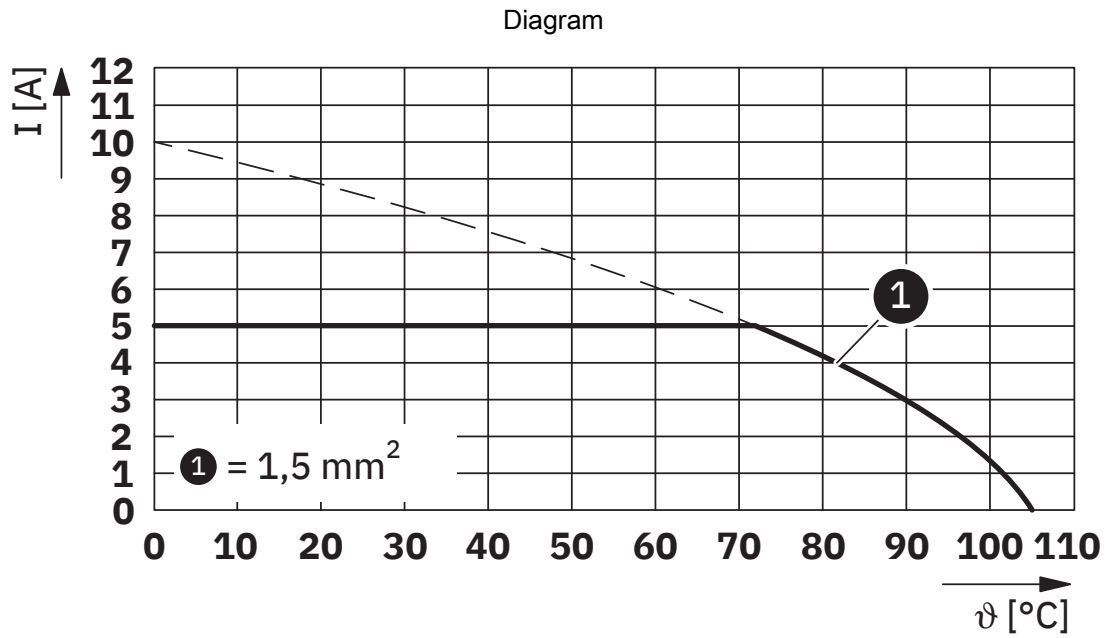
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Drawings

Schematic diagram



Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.



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Classifications

ECLASS

ECLASS-13.0	27460202
ECLASS-15.0	27460202

ETIM

ETIM 10.0	EC002638
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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