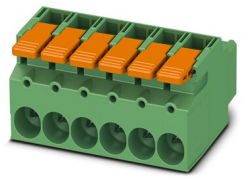
PCB connector - LPC 16 HC/ 6-ST-10,16

1716819

https://www.phoenixcontact.com/us/products/1716819

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PCB connector, nominal cross section: 16 mm^2, color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Female connector, number of rows: 1, number of positions: 6, product range: LPC 16 HC/..-ST, pitch: 10.16 mm, connection method: Lever Push-in connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 16 advanced, locking: without, mounting: without, 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
- Defined contact force ensures that contact remains stable over the long term
- Time-saving push-in connection when lever is closed

Commercial Data

Item number	1716819
Packing unit	25 pc
Minimum order quantity	25 pc
Product Key	AAEBAA
GTIN	4055626689890
Weight per Piece (including packing)	2.22 g
Weight per Piece (excluding packing)	2.22 g
Customs tariff number	85366990

Technical Data

Product properties

Product line	COMBICON Connectors XL
Product type	PCB plug
Number of positions	6
Pitch	10.16 mm
Number of rows	1
Mounting flange	without

Electrical properties

Nominal current I_N	76 A
Nominal voltage U_N	1000 V
Pollution degree	3
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

Connection data

Connection technology

Connector system	COMBICON PC 16 advanced
Nominal cross section	16 mm²
Type of contact	Female connector

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Conductor/PCB connection direction	0 °
Conductor cross section solid	0.75 mm² ... 16 mm²
Conductor cross section flexible	0.75 mm² ... 16 mm²
Conductor cross section AWG	18 ... 4
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm² ... 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm² ... 16 mm²
Cylindrical gauge a x b / diameter	- / 5.4 mm
Stripping length	18 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 (10 - 16 µm Sn)
Metal surface contact area (top layer)	Tin (10 - 16 µm Sn)

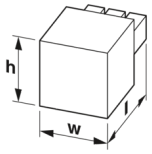
Material data - housing

Housing color	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Material data – actuating element

Color of the actuating lever	orange (2003)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	
Pitch	10.16 mm
Width [w]	64.16 mm
Height [h]	32.2 mm
Length [l]	56.3 mm

Notes

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.
Note on the status of the technical data	These technical data are expected. Final tests to be done.

Environmental and real-life conditions

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

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
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

Packaging specifications

Type of packaging	packed in cardboard

Classifications

ECLASS

ECLASS-9.0	27440309
ECLASS-10.0.1	27440309
ECLASS-11.0	27460202

ETIM

ETIM 8.0	EC002638

UNSPSC

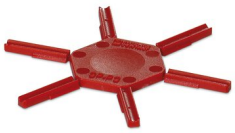
UNSPSC 21.0	39121400

Accessories

Coding profile

Coding profile - CP-PC RD - 1701967

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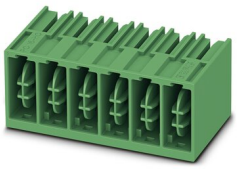


Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

PCB header

PCB header - PC 16 HC/ 6-G-10,16 - 1716851

https://www.phoenixcontact.com/us/products/1716851



PCB headers, nominal cross section: 16 mm^2, color: green, nominal current: 76 A, rated voltage (III/2): 690 V, contact surface: Tin, type of contact: Male connector, number of rows: 1, number of positions: 6, product range: PC 16 HC/. .-G, pitch: 10.16 mm, mounting: Wave soldering, pin layout: Linear three-way pinning, solder pin [P]: 4 mm, number of solder pins per potential: 4, plug-in system: COMBICON PC 16 advanced, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

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