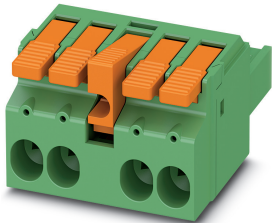


# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

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PCB connector, nominal cross section: 6 mm<sup>2</sup>, color: green, nominal current: 41 A, rated voltage (III/2): 1000 V, contact surface: Tin, type of contact: Female connector, number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: LPC 6/..-STL2, pitch: 7.62 mm, connection method: Lever Push-in connection, conductor/PCB connection direction: 0 °, Locking clip: - without locking clip, plug-in system: POWER COMBICON 6, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

Figure shows a 4-pos. version with locking flange at position 3

## 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
- ✓ Intuitive locking mechanism prevents accidental disconnection



## Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 055626 676722
GTIN	4055626676722
Weight per Piece (excluding packing)	26.400 g
Custom tariff number	85366990
Country of origin	Poland

## Technical data

### Item properties

Brief article description	PCB connector
Connector system	POWER COMBICON 6

# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

## Technical data

### Item properties

Type of contact	Female connector
Range of articles	LPC 6/...-STL
Pitch	7.62 mm
Number of positions	3
Number of rows	1
Number of connections	3
Number of potentials	3

### Electrical parameters

Nominal current	41 A
Nom. voltage	1000 V
Rated voltage (III/3)	800 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	6 kV

### Connection capacity

Connection method	Lever Push-in connection
pluggable	Yes
Conductor cross section solid	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross section flexible	0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section AWG / kcmil	18 ... 8
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 4.0 mm
Stripping length	18 mm

### Flange specifications

Type of locking	Snap-in locking
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### 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	Tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

## Technical data

### Material data - housing

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

### Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [ l ]	48 mm
Width [ w ]	32.48 mm
Height [ h ]	27.5 mm
Pitch	7.62 mm
Height (without solder pin)	27.5 mm

### Packaging information

Type of packaging	packed in cardboard
Pieces per package	25
Denomination packing units	Pcs.

### General product information

Type of note	Notes on operation
Note	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.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)

### Termination and connection method

Conductor connection test	The stripped-off ends of the largest conductor can be completely inserted in the opening of the terminal point without using excessive force.
Test result	Test passed

# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

## Technical data

### Termination and connection method

Test – repeated connection and release	IEC 60999-1:1999-11
	Test passed
Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

### Pull-out test

Pull-out test	IEC 60999-1:1999-11
Conductor cross section / conductor type / tensile force	0.75 mm <sup>2</sup> / solid / > 30 N
	0.75 mm <sup>2</sup> / flexible / > 30 N
	10 mm <sup>2</sup> / solid / > 90 N
	6 mm <sup>2</sup> / flexible / > 80 N

### Mechanical tests according to standard

Test specification	IEC 61984
Visual inspection	IEC 60512-1-1:2002-02
Dimension check	IEC 60512-1-2:2002-02
Resistance of inscriptions	IEC 60068-2-70:1995-12
Insertion and withdrawal force	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	11 N
Withdraw strength per pos. approx.	10 N
Polarization and coding	IEC 60512-13-5:2006-02
Contact holder in insert	IEC 60512-15-1:2008-05
Test force per pos.	20 N

### Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	8 mm
Minimum clearance - inhomogeneous field (III/2)	8 mm
Minimum clearance - inhomogeneous field (II/2)	5.5 mm
Minimum creepage distance value (III/3)	10 mm
Minimum creepage distance value (III/2)	5 mm
Minimum creepage distance value (II/2)	5 mm

### Electrical tests - Function

Specification	IEC 60999-1:1999-11
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### Temperature cycles

Specification	IEC 60999-1:1999-11
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# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

## Technical data

### Current carrying capacity / derating curves

Caption	Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...-7,62
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### Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	11 N
Withdraw strength per pos. approx.	10 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

### Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R <sub>1</sub>	0.5 mΩ
Insertion/withdrawal cycles	25
Contact resistance R <sub>2</sub>	0.5 mΩ
Impulse withstand voltage at sea level	7.3 kV
Insulation resistance, neighboring positions	> 5 MΩ

### Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	6
Upper limiting temperature requirements <100 °C	Test passed

### Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Impulse withstand voltage at sea level	7.3 kV
Power-frequency withstand voltage	3.31 kV

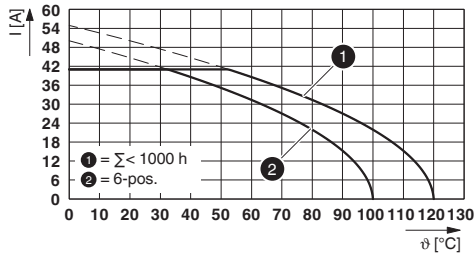
### Environmental and durability tests (E)

Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Finger safety with IP20 test finger

## Drawings

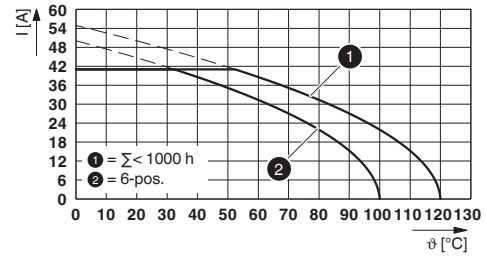
# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

Diagram



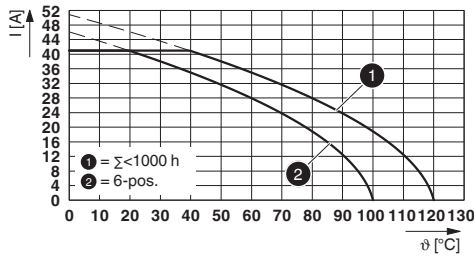
Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...-7,62

Diagram



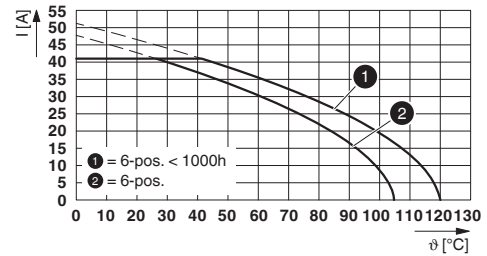
Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...U-7,62

Diagram



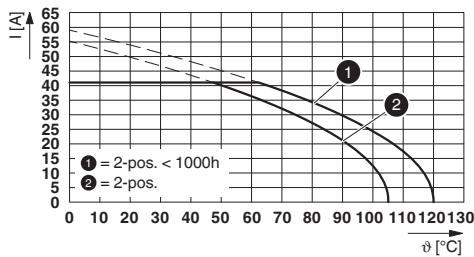
Type: LPC 6/...-STL...-7,62 with PCV 6/...-GL...-7,62

Diagram



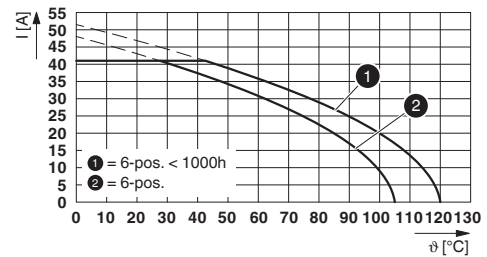
Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...-7,62 P...THR

Diagram



Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...-7,62 P...THR

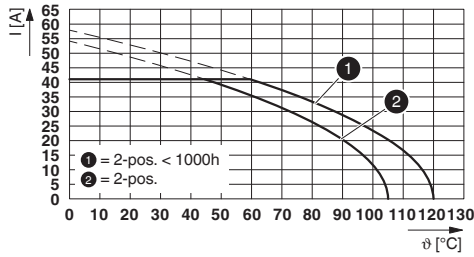
Diagram



Type: LPC 6/...-STL...-7,62 with PCV 6/...-GL...-7,62 P...THR

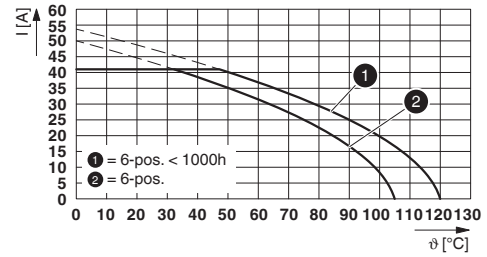
# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

Diagram



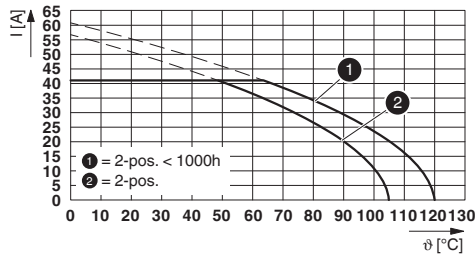
Type: LPC 6/...-STL...-7,62 with PCV 6/...-GL...-7,62 P...THR

Diagram



Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...U-7,62 P...THR

Diagram



Type: LPC 6/...-STL...-7,62 with PC 6/...-GL...U-7,62 P...THR

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440309
eCl@ss 11.0	27460202
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 6.0	EC002638
ETIM 7.0	EC002638

### UNSPSC

UNSPSC 18.0	39121409
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# Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

## Classifications

### UNSPSC

UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

## Approvals


### Approvals


#### Approvals


cULus Recognized / EAC / VDE Zeichengenehmigung

#### Ex Approvals

### Approval details

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-20010727
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	35 A	35 A	
mm <sup>2</sup> /AWG/kcmil	18-8	18-8	

EAC		B.01687
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VDE Zeichengenehmigung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40050635
Nominal voltage UN	630 V		
Nominal current IN	41 A		
mm <sup>2</sup> /AWG/kcmil	0.75-6		



## Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

### Accessories

#### Accessories

#### Coding element

Coding profile - CP-PC RD - 1701967



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

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### Crimping tool

Crimping pliers - CRIMPFOX CENTRUS 6S - 1213144



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm<sup>2</sup> ... 6 mm<sup>2</sup>, also for TWIN ferrules up to 2 x 4 mm<sup>2</sup>, automatic cross section adjustment, lateral insertion, equipped with fall protection

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### Ferrule

Ferrule - AI 6 -18 YE - 3200603



Ferrule, sleeve length: 18 mm, length: 26 mm, color: yellow

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### Shroud

Shield connection - PC 6-SH-PLATE 1-7,62 - 1128864



Shield connection, product range: EMV-SCHIRMUNG, width: 38.4 mm

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### Stripping tool

## Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

### Accessories

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

### Additional products

PCB header - PC 6/ 3-GL2-7,62 P26THR - 1190538



PCB headers, nominal cross section: 6 mm<sup>2</sup>, color: black, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, Number of rows: 1, Number of positions per row: 3, product range: PC 6/..-GL-THR, pitch: 7.62 mm, mounting: THR soldering / wave soldering, solder pin [P]: 2.6 mm, Number of solder pins per potential: 3, plug-in system: POWER COMBICON 6, Pin connector pattern alignment: Standard, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

PCB header - PC 6/ 3-GL2U-7,62 P26THR - 1192647



PCB headers, nominal cross section: 6 mm<sup>2</sup>, color: black, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, Number of rows: 1, Number of positions per row: 3, product range: PC 6/..-GLU-THR, pitch: 7.62 mm, mounting: THR soldering / wave soldering, solder pin [P]: 2.6 mm, Number of solder pins per potential: 3, plug-in system: POWER COMBICON 6, Pin connector pattern alignment: reversed, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

PCB header - PCV 6/ 3-GL2-7,62 P26THR - 1192609



PCB headers, nominal cross section: 6 mm<sup>2</sup>, color: black, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, Number of rows: 1, Number of positions per row: 3, product range: PCV 6/..-GL-THR, pitch: 7.62 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, Number of solder pins per potential: 3, plug-in system: POWER COMBICON 6, Pin connector pattern alignment: Standard, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

Printed-circuit board connector - PC 6/ 3-GL2-7,62 - 1717027



PCB headers, nominal cross section: 6 mm<sup>2</sup>, color: black, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: PC 6/..-GL2, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, Number of solder pins per potential: 3, plug-in system: POWER COMBICON 6, Pin connector pattern alignment: Standard, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

## Printed-circuit board connector - LPC 6/ 3-STL2-7,62 - 1716931

### Accessories

#### Printed-circuit board connector - PC 6/ 3-GL2U-7,62 - 1136011



PCB headers, nominal cross section: 6 mm<sup>2</sup>, color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: PC 6/..-GLU, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, Number of solder pins per potential: 3, plug-in system: POWER COMBICON 6, Pin connector pattern alignment: reversed, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

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#### Printed-circuit board connector - PCV 6/ 3-GL2-7,62 - 1131780



PCB headers, nominal cross section: 6 mm<sup>2</sup>, color: green, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: PCV 6/..-GL, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, Number of solder pins per potential: 3, plug-in system: POWER COMBICON 6, Pin connector pattern alignment: Standard, Locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard