

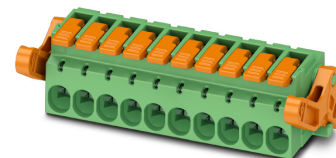
Data sheet

2021-06-02
Product version 01
Document revision 01

Order No.: 1110611

Type: LPC 2,5/ 6-ST-5,08-LR

PCB connector, Lever Push-in connection



The figure shows an 10-position version

1 Main features



- | | | | |
|---------------------------|--------------------------|------------------------|---------------------|
| • No. of pos. | 6 | • Nominal current | 16 A |
| • Conductor cross section | 2.5 mm ² | • Nominal voltage | 320 V |
| • Color | green (6021) | • Connection direction | 0 ° |
| • Pitch | 5.08 mm | • Type of packaging | packed in cardboard |
| • Connection method | Lever Push-in connection | | |

2 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
- ✓ Time-saving push-in connection when lever is closed
- ✓ Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- ✓ Quick and convenient testing using integrated test option



Make sure you always use the latest documentation.
It can be downloaded at: phoenixcontact.net/product/1110611

1110611 LPC 2,5/ 6-ST-5,08-LR**3 Table of contents**

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1110611 LPC 2,5/ 6-ST-5,08-LR

4 3D model in PDF can be activated (Acrobat Reader only)



1110611 LPC 2,5/ 6-ST-5,08-LR**5 General Technical Data****5.1 item properties**

Order No.	1110611
Type	LPC 2,5/ 6-ST-5,08-LR
Connector system	CLASSIC COMBICON
Product type	PCB connector
Type of contact	Female connector
Range of articles	LPC 2,5/...-STF
Pitch	5.08 mm
Number of positions	6
Number of levels	1
Connection method	Lever Push-in connection
Connection direction of the conductor to plug-in direction	0 °

1110611 LPC 2,5/ 6-ST-5,08-LR**6 Mounting****6.1 Flange mounting**

Type of locking	Snap-in locking
Mounting flange	Lock & Release ejector lever

1110611 LPC 2,5/ 6-ST-5,08-LR**7 Conductor connection****7.1 Connection capacity**

Nominal cross section	2.5 mm ²
Conductor cross section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ² (Stripping length: 7 mm ... 12 mm)
Conductor cross section flexible, with ferrule with plastic sleeve	0.25 mm ² ... 2.5 mm ² (Stripping length: 7 mm ... 12 mm)
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm ² ... 1 mm ² (Stripping length: 7 mm ... 12 mm)
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm
Stripping length	10 mm

7.2 Connection capacity AWG

Conductor cross section AWG	26 ... 12
-----------------------------	-----------

1110611 LPC 2,5/ 6-ST-5,08-LR**8 Material properties****8.1 Material of metal parts**

Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Terminal point surface	Tin (4 - 8 µm Sn)
Surface contact area	Tin (4 - 8 µm Sn)
Surface characteristics	hot-dip tin-plated

8.2 Material of plastic parts

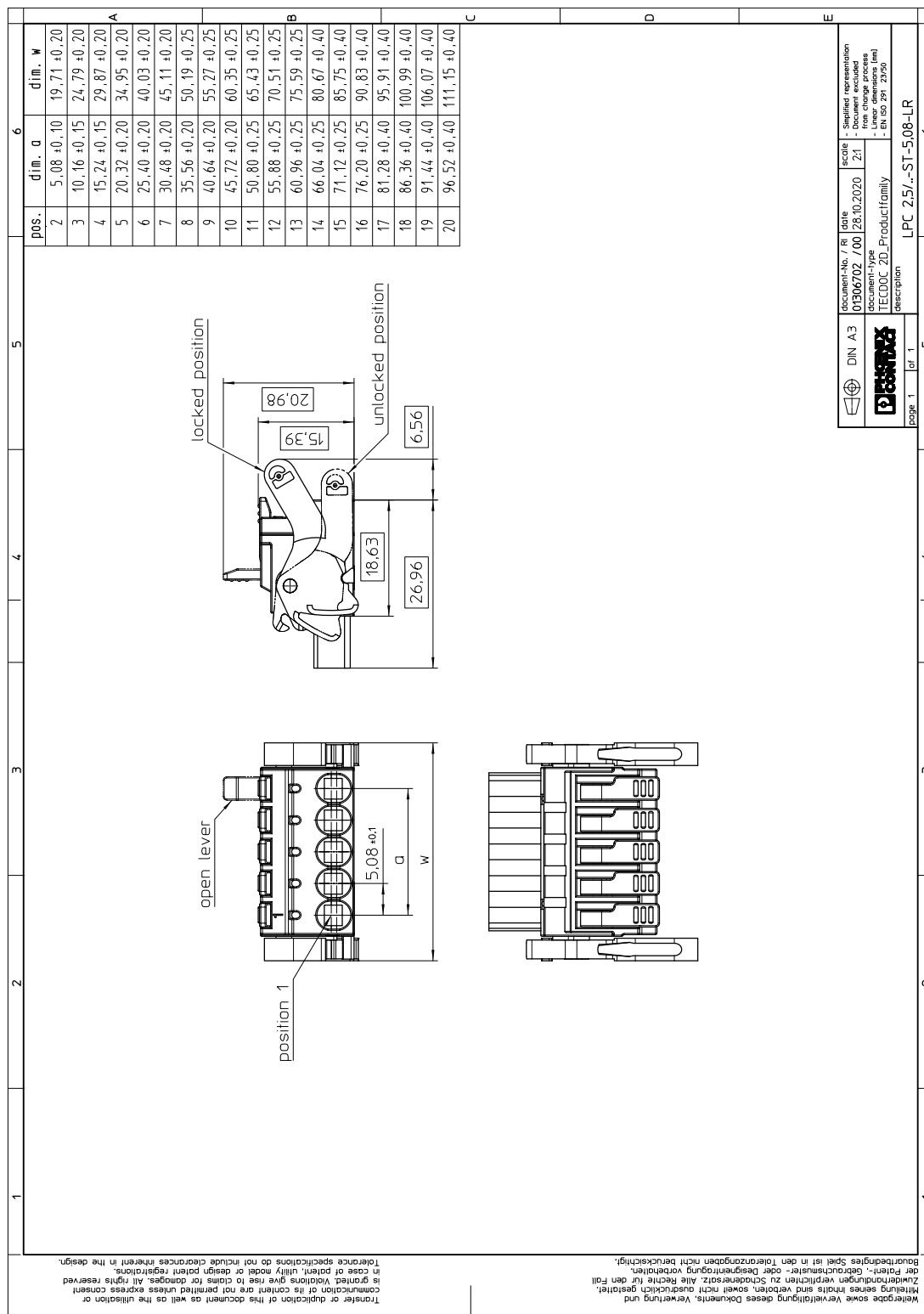
	Housing	Actuation element
Color	green (6021)	orange (2003)
Insulating material	PA	PA GF
Insulating material group	I	I
CTI according to IEC 60112	600	600
Flammability rating according to UL 94	V0	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850	
Glow wire ignition temperature GWIT according to EN 60695-2-13	775	
Temperature for the ball pressure test according to EN 60695-10-2	125 °C	

1110611 LPC 2,5/ 6-ST-5,08-LR**9 Dimensions****9.1 Dimensions for the product**

Length	33.52 mm
Width	40.03 mm
Installed height	15.39 mm
Total height	20.98 mm

1110611 LPC 2,5/ 6-ST-5,08-LR

10 Series drawing



1110611 LPC 2,5/ 6-ST-5,08-LR**11 Product notes****11.1 General information**

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.

12 Packaging information

Type of packaging

packed in cardboard

Pieces per package

50

13 Application

Ferrules without insulating collar, according to DIN 46228-1

Recommended crimping pliers

1212034 CRIMPFOX 6

Ferrules without insulating collar, according to DIN 46228-1

Cross section: 0.25 mm²; Length: 7 mm
 Cross section: 0.34 mm²; Length: 7 mm
 Cross section: 0.5 mm²; Length: 8 mm ... 10 mm
 Cross section: 0.75 mm²; Length: 8 mm ... 10 mm
 Cross section: 1 mm²; Length: 8 mm ... 12 mm
 Cross section: 1.5 mm²; Length: 10 mm ... 12 mm
 Cross section: 2.5 mm²; Length: 10 mm ... 12 mm

Ferrules with insulating collar, according to DIN 46228-4

Recommended crimping pliers

1212034 CRIMPFOX 6

Ferrules with insulating collar, according to DIN 46228-4

Cross section: 0.25 mm²; Length: 8 mm ... 10 mm
 Cross section: 0.34 mm²; Length: 8 mm ... 10 mm
 Cross section: 0.5 mm²; Length: 8 mm ... 10 mm
 Cross section: 0.75 mm²; Length: 10 mm ... 12 mm
 Cross section: 1 mm²; Length: 10 mm ... 12 mm
 Cross section: 1.5 mm²; Length: 10 mm ... 12 mm
 Cross section: 2.5 mm²; Length: 12 mm

13.1 Temperature limit values

Ambient temperature (storage/transport)

-40 °C ... 70 °C

Ambient temperature (assembly)

-5 °C ... 100 °C

Ambient temperature (operation)

-40 °C ... 105 °C (dependent on the derating curve)

1110611 LPC 2,5/ 6-ST-5,08-LR**14 General tests****14.1 Specification**

Specification	IEC 61984
Specification	IEC 60999-1
Brief description	Printed-circuit board connector

15 Mechanical tests**15.1 Check for damage to conductor or loosening**

Result	Test passed
Specification	IEC 60999-1:1999-11

15.2 Pull-out test

Specification	IEC 60999-1:1999-11
Result	Test passed
Conductor cross section/conductor type/tractive force actual value	0.2 mm ² / solid / > 10 N
Conductor cross section/conductor type/tractive force actual value	0.2 mm ² / flexible / > 10 N
Conductor cross section/conductor type/tractive force actual value	2.5 mm ² / solid / > 50 N
Conductor cross section/conductor type/tractive force actual value	2.5 mm ² / flexible / > 50 N

15.3 Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

15.4 Conductor connection

Specification	IEC 60999-1:1999-11
Result	Test passed

15.5 Visual examination

Specification	IEC 61984:2008-10
Visual examination	Test passed
Specification	IEC 60512-1-1:2002-02

15.6 Dimensional test

Dimensional test	Test passed
Specification	IEC 60512-1-2:2002-02

15.7 Resistance of marking

1110611 LPC 2,5/ 6-ST-5,08-LR

Resistance of marking

Test passed

Specification

IEC 60068-2-70:1995-12

15.8 Polarization and codingPolarization when inserted
Requirement >20 N

Test passed

Specification

IEC 60512-13-5:2006-02

1110611 LPC 2,5/ 6-ST-5,08-LR**16 Insertion and withdrawal forces**

Insertion and withdrawal force	Test passed
Specification	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N

1110611 LPC 2,5/ 6-ST-5,08-LR**17 Electrical tests**

Rated current / conductor cross section	16 A / 2.5 mm ²
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Contact resistance	0.9 mΩ
Degree of pollution	2

17.1 Air and creepage distances

Component	PCB connector		
Specification	IEC 60664-1:2007-04		
Mains type	unearthed mains		
Insulating material group	I		
Comparative tracking index (IEC 60112:2003-01)	CTI 600		
Rated insulation voltage	250 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Degree of pollution	3	2	2
Overvoltage category	III	III	II
Minimum clearance case A (inhomogeneous field)	3 mm	3 mm	3 mm
Minimum value of the creepage path requirement in acc. with table	3.2 mm	3 mm	3.2 mm

17.2 Electrical function

Specification	IEC 60999-1:1999-11
Result	Test passed
Voltage drop	Voltage drop (U) after the load ≤ 15 mV
Test current (minimum cross section)	3 A AC
Test current (maximum cross section)	16 A AC
Conductor cross section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, rigid	0.2 mm ² ... 2.5 mm ²

17.3 Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed
Voltage drop	Voltage drop (U) after the load ≤ 22.5 mV or $1.5 \times U_{\text{after 24 h}}$ The small value is to be used.
Test current (minimum cross section)	3 A AC
Test current (maximum cross section)	16 A AC
Temperature cycles	192
Conductor cross section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, rigid	0.2 mm ² ... 2.5 mm ²

1110611 LPC 2,5/ 6-ST-5,08-LR

18 Current carrying capacity/derating curves

Specification

IEC 61984:2008-10

Note

Representation based on IEC 60512-5-2:2002-02

Note

For number of positions, see diagram

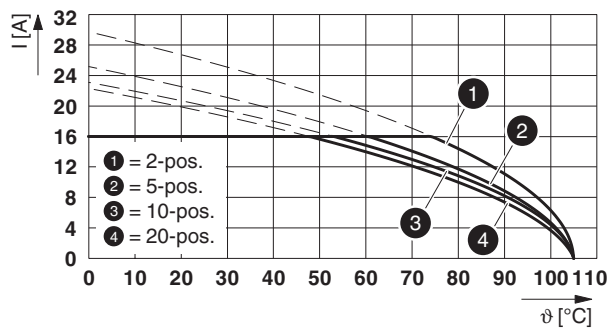
Reduction factor

0.8

Conductor cross section

2.5 mm²

Type: LPC 2,5/...-ST-5,08-LR with CCV 2,5/...-GF-5,08-LR P...THR



1110611 LPC 2,5/ 6-ST-5,08-LR**19 Environmental and durability tests****19.1 Vibration test**

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	50 m/s ² (60.1 - 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Note	

19.2 Railway application, vibration test

Specification	IEC 61373:2010-05
Result	Test passed
Testing	Vibration, broadband noise
Frequency	5 - 150 Hz
Test directions	X-, Y- and Z-axis (pos. and neg.)
Spectrum	Service life test category 1, class B, body mounted

20 Classification for connectors

Specification	IEC 61984:2008-10
Main features	Connectors without switching capacity (COC)
Construction form	Fixed connectors
Strain relief elements	without strain relief
Connection method	Can be reconnected
Protection against electric shock	Not encapsulated - touch-proof when inserted
Protective conductor	without PE
Lock	no
Connection method	Screwless terminal points

1110611 LPC 2,5/ 6-ST-5,08-LR**21 Commercial Data**

Order No.	1110611
Type	LPC 2,5/ 6-ST-5,08-LR
Pieces per package	50
Net weight	2.22 g
GTIN	4063151027506
	Information that applies locally, see link on page 1
	Information that applies locally, see link on page 1

22 Accessories

Description	Order No.	Type
Coding profile, is inserted into the slot on the plug or inverted header, red insulating material	1734634	CP-MSTB

1110611 LPC 2,5/ 6-ST-5,08-LR**23 Combination tests****LPC 2,5/...-STF**

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

Polarization when inserted
Requirement >20 NContact holder in insert
Requirements >20 N**Durability tests (B)**Contact resistance R_1 1st levelContact resistance R_1 2nd level

Insertion/withdrawal cycles

Contact resistance R_2 Rated impulse voltage at sea level
Voltage waveform $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage
Voltage waveform $\geq (50/60 \text{ Hz})$ **Thermal tests (C)**

Tested number of positions

Tested conductor cross section

Test current

Upper limiting temperature
Requirements < 100°C**Climatic tests (D)**

Test sequence 1: low temperature storage

Test sequence 2: heat storage

Test sequence 3: noxious gas storage
(ISO 6988)Rated impulse voltage at sea level
Voltage waveform $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage
Voltage waveform $\geq (50/60 \text{ Hz})$ **Environmental and endurance tests (E)**

Specification

Degree of protection

CCV 2,5/...-GF-LR

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

0.9 m Ω

25

1.2 m Ω

4.8 kV

2.21 kV

20

2.5 mm²

16 A

Test passed

-40 °C/2 h

105 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger

单击下面可查看定价，库存，交付和生命周期等信息

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