

Printed-circuit board connector - PC 5/ 8-STCL1-7,62 - 1778120

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Plug component, nominal current: 41 A, rated voltage (III/2): 1000 V, number of positions: 8, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin



The figure shows a 5-pos. version of the product

Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- ✓ 600 V UL approval in the smallest of dimensions
- ✓ The automatically locking Click and Lock system prevents accidental disconnection



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	 4 046356 523257
GTIN	4046356523257
Weight per Piece (excluding packing)	36.800 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Length [l]	29.25 mm
Width [w]	69.11 mm

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Technical data

Dimensions

Height [h]	19.7 mm
Pitch	7.62 mm
Dimension a	53.34 mm

General

Range of articles	PC 5/..-STCL1
Type of contact	Female connector
Number of positions	8
Connection method	Screw connection with tension sleeve
Insulating material group	I
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	6 kV
Rated voltage (III/3)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Nominal current I_N	41 A
Nominal cross section	6 mm ²
Maximum load current	41 A
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A4
Stripping length	10 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.8 Nm
Note	Tightening torque $\leq 4 \text{ mm}^2$ is 0.5 Nm to 0.6 Nm, $> 4 \text{ mm}^2$ is 0.7 Nm to 0.8 Nm

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	10 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	6 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm ²
Conductor cross section AWG min.	24

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Technical data

Connection data

Conductor cross section AWG max.	10
2 conductors with same cross section, solid min.	0.2 mm ²
2 conductors with same cross section, solid max.	2.5 mm ²
2 conductors with same cross section, stranded min.	0.2 mm ²
2 conductors with same cross section, stranded max.	4 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	2.5 mm ²
Minimum AWG according to UL/CUL	24
Maximum AWG according to UL/CUL	8

Standards and Regulations

Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

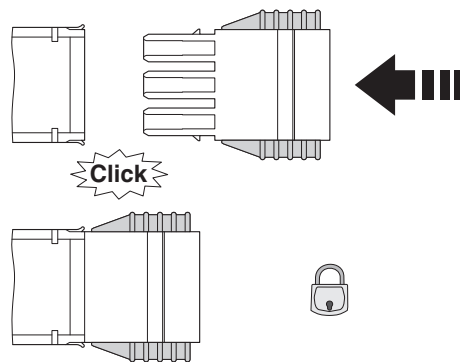
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

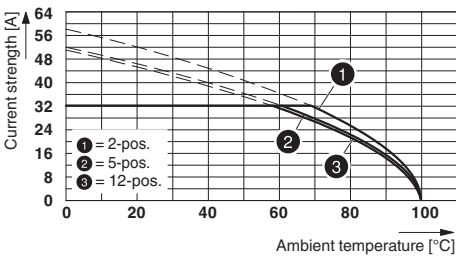
Drawings

Printed-circuit board connector - PC 5/ 8-STCL1-7,62 - 1778120

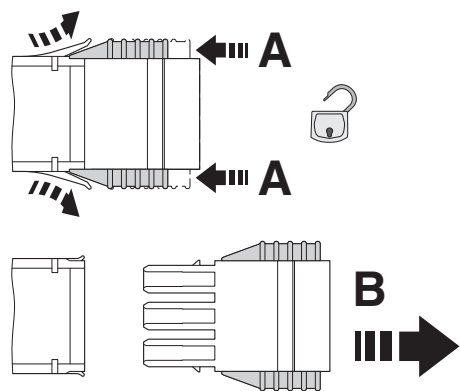
Schematic diagram



Diagram

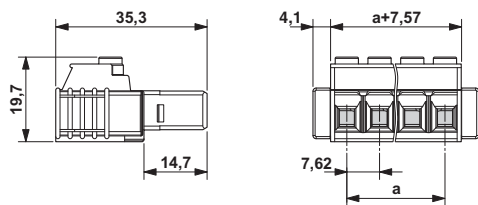


Type: PC 5/...-STCL1-7,62 with IPC 5/...-STGCL-7,62



Click and Lock system method of operation

Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27141109
eCl@ss 4.1	27141109

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Classifications

eCl@ss

eCl@ss 5.0	27141190
eCl@ss 5.1	27141190
eCl@ss 6.0	27261101
eCl@ss 7.0	27440402
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002638
ETIM 6.0	EC002638

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121409

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	C	
mm²/AWG/kcmil	24-8	24-8	
Nominal current I _N	41 A	41 A	

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Approvals

	B	C
Nominal voltage UN	600 V	600 V

cUL Recognized				http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425

EAC		B.01742
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm
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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

Labeled terminal marker

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

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Accessories

Marker card - SK 3,8 REEL P7,62 WH CUS - 0825128



Marker card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: continuous x 3.8 mm

Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm

Marker strip - SK 3,8 WH:REEL - 0805218



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 3.8 mm

Additional products

Printed-circuit board connector - PC 5/ 8-STCL1-7,62 - 1778120

Accessories

Printed-circuit board connector - IPC 5/ 8-STGCL-7,62 - 1718326



Plug component, nominal current: 41 A, rated voltage (III/2): 1000 V, number of positions: 8, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - ISPC 5/ 8-STGCL-7,62 - 1748927



Plug component, nominal current: 41 A, rated voltage (III/2): 1000 V, number of positions: 8, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

Printed-circuit board connector - PC 5/ 8-G-7,62 - 1720521



Header, nominal current: 41 A, rated voltage (III/2): 630 V, number of positions: 8, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - PC 5/ 8-GU-7,62 - 1720741



Header, nominal current: 41 A, rated voltage (III/2): 630 V, number of positions: 8, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - PCV 5/ 8-G-7,62 - 1720631



Header, nominal current: 41 A, rated voltage (III/2): 630 V, number of positions: 8, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Accessories

Printed-circuit board connector - DFK-PC 5/ 8-G-7,62 - 1727647



Header, nominal current: 41 A, rated voltage (III/2): 630 V, number of positions: 8, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 8-GU-7,62 - 1727867



Header, nominal current: 41 A, rated voltage (III/2): 630 V, number of positions: 8, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - DFK-PCV 5/ 8-G-7,62 - 1716344



Header, nominal current: 41 A, rated voltage (III/2): 630 V, number of positions: 8, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 8-ST-7,62 - 1716564



Plug component, nominal current: 41 A, rated voltage (III/2): 1000 V, number of positions: 8, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin