

## Printed-circuit board connector - PC 5/ 5-ST1-7,62 - 177752

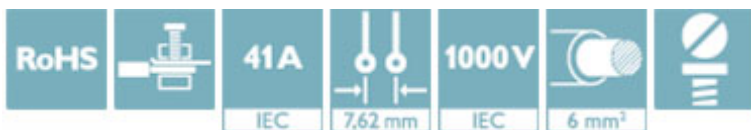
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PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin




### Your advantages

- ✓ 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



### Key Commercial Data

Packing unit	50 pc
GTIN	 4 046356 522892
GTIN	4046356522892

### Technical data

#### Dimensions

Length [ l ]	35.25 mm
Width [ w ]	38.05 mm
Height [ h ]	19.7 mm
Pitch	7.62 mm
Dimension a	30.48 mm

#### General

Range of articles	PC 5/...-ST1
Number of positions	5
Connection method	Screw connection with tension sleeve
Insulating material group	I
Rated surge voltage (III/3)	8 kV

# Printed-circuit board connector - PC 5/ 5-ST1-7,62 - 1777752

## Technical data

### General

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 <sup>2</sup>
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 <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	2.5 mm <sup>2</sup>
Minimum AWG according to UL/CUL	24
Maximum AWG according to UL/CUL	8

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## Technical data

### Standards and Regulations

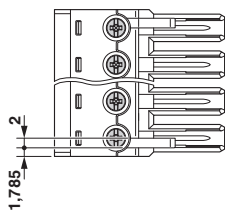
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

### Environmental Product Compliance

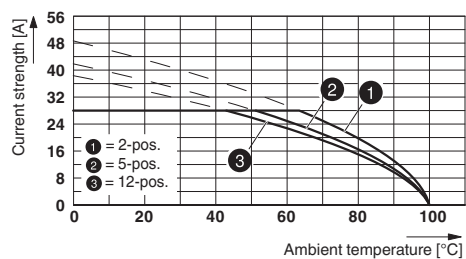
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

### Dimensional drawing

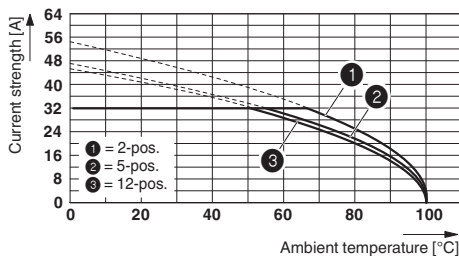


### Diagram



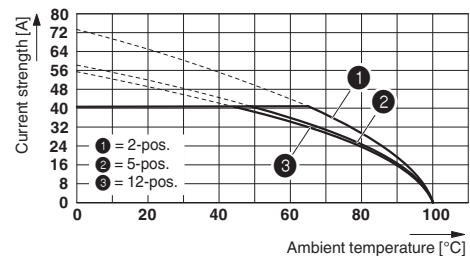
Derating curve for: PC 5/...-ST1-7,62 with PC 4/....-G-7,62  
Conductor cross section: 4 mm<sup>2</sup>

### Diagram



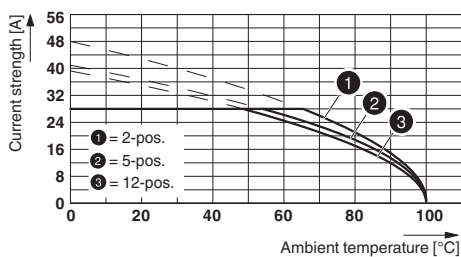
Derating curve for: PC 5/...-ST1-7,62 with PC 5/....-G-7,62  
Conductor cross section: 6 mm<sup>2</sup>

### Diagram



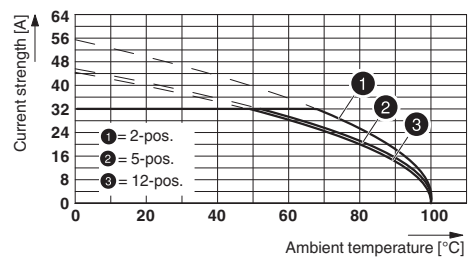
Derating curve for: PC 5/...-ST1-7,62 with PC 5/....-G-7,62  
Conductor cross section: 10 mm<sup>2</sup>

### Diagram



Derating curve for: PC 5/...-ST1-7,62 with PCV 4/....-G-7,62

### Diagram



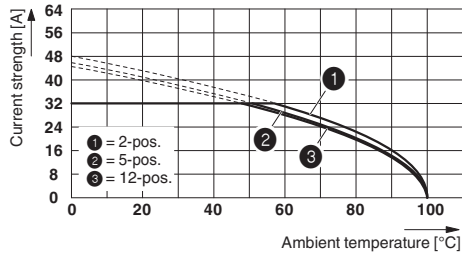
Derating curve for: PC 5/...-ST1-7,62 with PCV 4/....-G-7,62

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Conductor cross section: 4 mm<sup>2</sup>

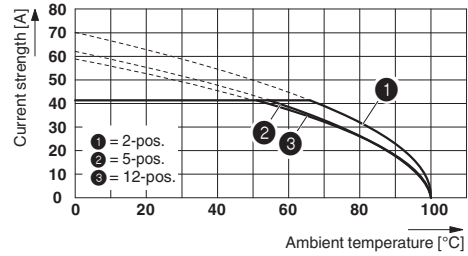
Conductor cross section: 6 mm<sup>2</sup>

Diagram



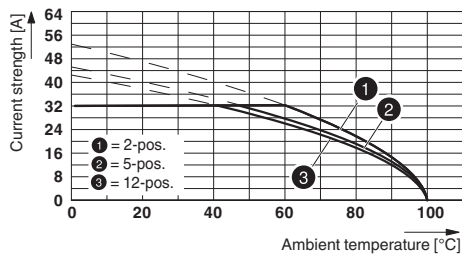
Derating curve for: PC 5/...-ST1-7,62 with PCV 5/...-G-7,62  
Conductor cross section: 6 mm<sup>2</sup>

Diagram



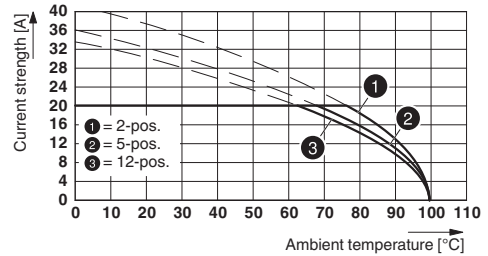
Derating curve for: PC 5/...-ST1-7,62 with PCV 5/...-G-7,62  
Conductor cross section: 10 mm<sup>2</sup>

Diagram



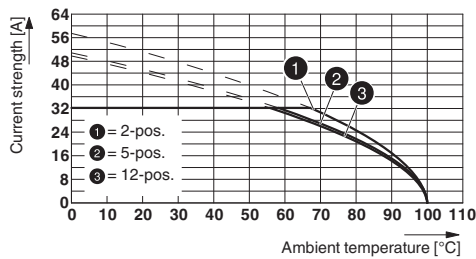
Derating curve for: PC 5/...-ST1-7,62 with PC 4/...-G-7,62  
Conductor cross section: 6 mm<sup>2</sup>

Diagram



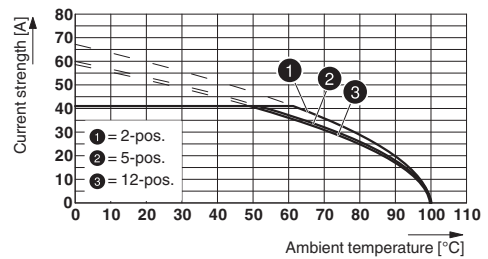
Type: PC 5/...-ST1-7,62 with PCVK 4-7,62

Diagram



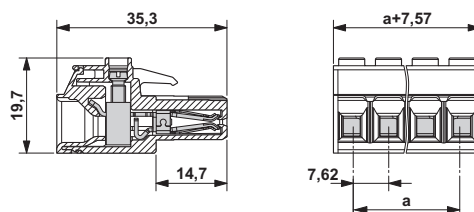
Type: PC 5/...-ST(F)1-7,62 with PC 5/...-GU(F)-7,62  
Conductor cross section: 6 mm<sup>2</sup>

Diagram



Type: PC 5/...-ST(F)1-7,62 with PC 5/...-G(F)U-7,62  
Conductor cross section: 10 mm<sup>2</sup>

## Dimensional drawing



# Printed-circuit board connector - PC 5/ 5-ST1-7,62 - 1777752

## Approvals

### Approvals

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#### Approvals

EAC / cULus Recognized


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#### Ex Approvals

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### Approval details

EAC		B.01742
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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>	E60425-19920722
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	41 A	41 A	
mm <sup>2</sup> /AWG/kcmil	24-8	24-8	

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