

## Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

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Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 7.62 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

### Why buy this product

- ✓ Unlimited 600 V UL approval
- ✓ CP-PC coding profile as protection against mismatching
- ✓ Maximum contact reliability due to integrated double steel spring
- ✓ High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm<sup>2</sup>, stranded/10 mm<sup>2</sup>, solid



### Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	 4 046356 522908
Weight per Piece (excluding packing)	25.7 g
Custom tariff number	85366990
Country of origin	Germany
Product key	AABCCA

### Technical data

#### Dimensions

Length	35.3 mm
Height	19.7 mm
Width	45.67 mm
Pitch	7.62 mm
Dimension a	38.1 mm

#### General

Range of articles	PC 5/..-ST1
Insulating material group	I
Rated surge voltage (III/3)	8 kV

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## 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
Inflammability class according to UL 94	V0
Internal cylindrical gage	A4
Stripping length	10 mm
Number of positions	6
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	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

# Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27141190
eCl@ss 6.0	27260704
eCl@ss 7.0	27440402
eCl@ss 8.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638

### UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Recognized 		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	41 A	41 A

# Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

## Approvals

	B	C
Nominal voltage UN	600 V	600 V

cUL Recognized

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

EAC

cULus Recognized

## 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

### 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

### Additional products

## Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

### Accessories

Printed-circuit board connector - IPC 5/ 6-ST-7,62 - 1709089



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 7.62 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

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Printed-circuit board connector - ISPC 5/ 6-STGCL-7,62 - 1748901



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 7.62 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin

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Printed-circuit board connector - PC 5/ 6-G-7,62 - 1720505



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 6, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Soldering

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Printed-circuit board connector - PC 5/ 6-GU-7,62 - 1720725



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 6, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Soldering

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Housing - PCV 5/ 6-G-7,62 - 1720615



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 6, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Soldering

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# Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

## Accessories

Printed-circuit board connector - DFK-PC 5/ 6-G-7,62 - 1727621



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 6, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Soldering

Printed-circuit board connector - DFK-PC 5/ 6-GU-7,62 - 1727841



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 6, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Soldering

Printed-circuit board connector - DFK-PCV 5/ 6-G-7,62 - 1716328



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 6, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Soldering

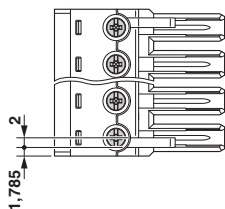
Printed-circuit board connector - DFK-PC 5/ 6-ST-7,62 - 1716548



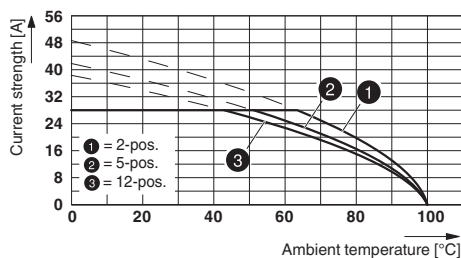
Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 7.62 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

## Drawings

Dimensional drawing



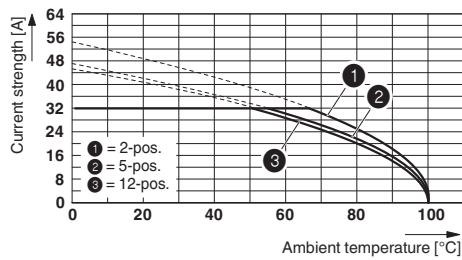
Diagram



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

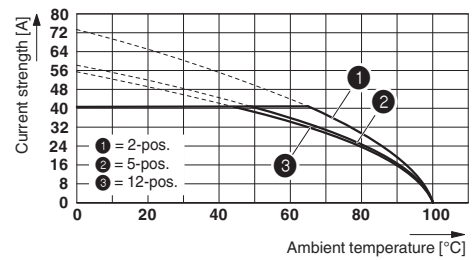
# Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

Diagram



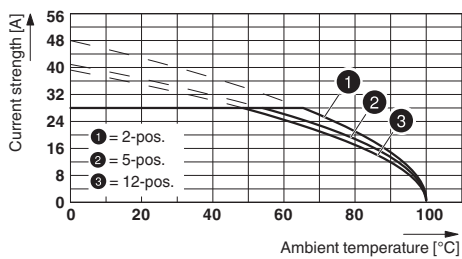
Derating curve for: PC 5/...-ST1-7,62 with PC 5/...-G-7,62  
Conductor cross section: 6 mm<sup>2</sup>

Diagram



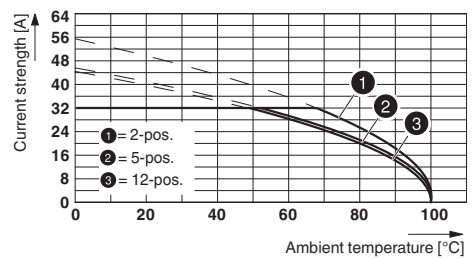
Derating curve for: PC 5/...-ST1-7,62 with PC 5/...-G-7,62  
Conductor cross section: 10 mm<sup>2</sup>

Diagram



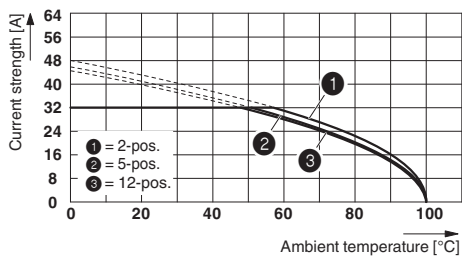
Derating curve for: PC 5/...-ST1-7,62 with PCV 4/...-G-7,62  
Conductor cross section: 4 mm<sup>2</sup>

Diagram



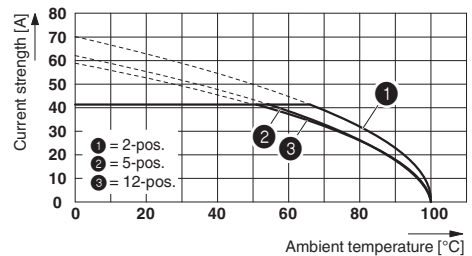
Derating curve for: PC 5/...-ST1-7,62 with PCV 4/...-G-7,62  
Conductor cross section: 6 mm<sup>2</sup>

Diagram



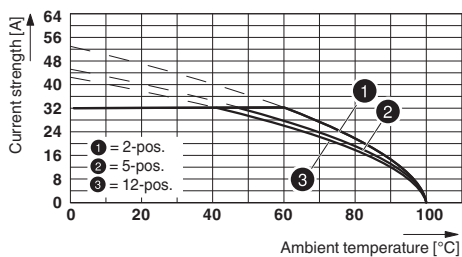
Derating curve for: PC 5/...-ST1-7,62 with PCV 5/...-G-7,62  
Conductor cross section: 6 mm<sup>2</sup>

Diagram



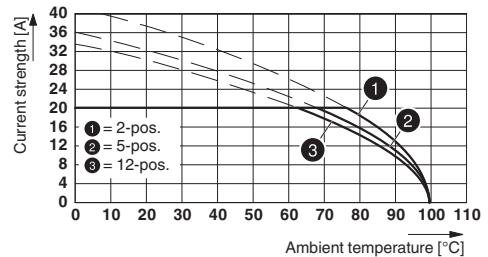
Derating curve for: PC 5/...-ST1-7,62 with PCV 5/...-G-7,62  
Conductor cross section: 10 mm<sup>2</sup>

Diagram



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

Diagram

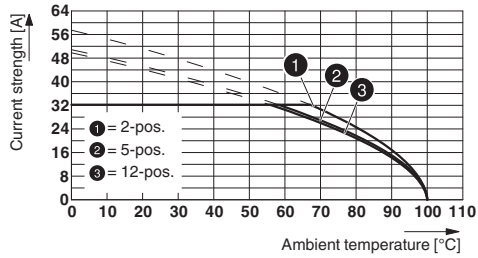


Type: PC 5/...-ST1-7,62 with PCVK 4-7,62

# Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

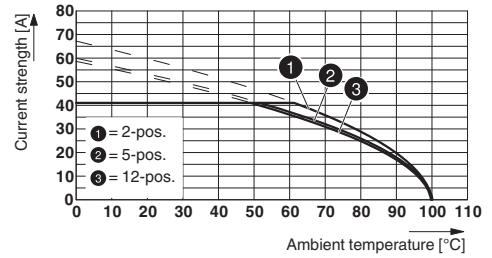
Conductor cross section: 6 mm<sup>2</sup>

Diagram



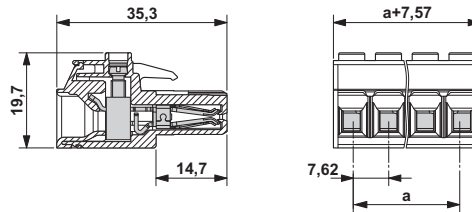
Type: PC 5/...-ST(F)1-7,62 with PC 5/...-GU(F)-7,62  
 Conductor cross section: 6 mm<sup>2</sup>

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





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