

# Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498

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Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver



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

## Why buy this product

- Can be plugged into PC 6-16 headers and IPC 16 plugs
- High-capacity plugs with a current carrying capacity of 76 A and a connection capacity of 16 mm<sup>2</sup>, stranded
- Unlimited 600 V UL approval
- Maximum contact reliability due to integrated double steel spring
- CP-PC RD coding profile



## Key commercial data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	 4 017918 939359
Weight per Piece (excluding packing)	57.13 g
Custom tariff number	85366990
Country of origin	Poland

## Technical data

### Dimensions

Pitch	10.16 mm
Dimension a	50.8 mm

### General

Range of articles	PC 16/...-STF
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

# Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498

## Technical data

### General

Rated voltage (III/3)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Connection in acc. with standard	EN-VDE
Nominal current I <sub>N</sub>	76 A
Nominal cross section	16 mm <sup>2</sup>
Maximum load current	76 A
Insulating material	PA
Inflammability class according to UL 94	V0
Internal cylindrical gage	A6
Stripping length	12 mm
Number of positions	6
Screw thread	M4
Tightening torque, min	1.7 Nm
Tightening torque max	1.8 Nm

### Connection data

Conductor cross section solid min.	0.75 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section stranded min.	0.75 mm <sup>2</sup>
Conductor cross section stranded max.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	16 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	10 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S
Conductor cross section AWG/kcmil min.	18
Conductor cross section AWG/kcmil max	6
2 conductors with same cross section, solid min.	0.75 mm <sup>2</sup>
2 conductors with same cross section, solid max.	6 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.75 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	6 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	6 mm <sup>2</sup>
Minimum AWG according to UL/CUL	20

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## Technical data

### Connection data

Maximum AWG according to UL/CUL	6
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## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
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 / SEV / cUL Recognized / CCA / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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## Approval details

# Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498

## Approvals

UL Recognized 		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-6	20-6
Nominal current I <sub>N</sub>	55 A	55 A
Nominal voltage U <sub>N</sub>	600 V	600 V

SEV	
mm <sup>2</sup> /AWG/kcmil	16
Nominal current I <sub>N</sub>	76 A
Nominal voltage U <sub>N</sub>	1000 V

cUL Recognized 		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-6	20-6
Nominal current I <sub>N</sub>	55 A	55 A
Nominal voltage U <sub>N</sub>	600 V	600 V

CCA	
Nominal current I <sub>N</sub>	76 A
Nominal voltage U <sub>N</sub>	1000 V

EAC
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cULus Recognized 		
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## Accessories

Accessories

Coding element

# Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498

## Accessories

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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## Additional products

Printed-circuit board connector - IPC 16/ 6-STGF-10,16 - 1975859

Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver



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Printed-circuit board connector - ISPC 16/ 6-STGF-10,16 - 1748749

Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Silver



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Base strip - PC 6-16/ 6-G1F-10,16 - 1999042

Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Mounting: Soldering



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Base strip - PC 6-16/ 6-G1FU-10,16 - 1996359

Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Mounting: Soldering



## Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498

### Accessories

Base strip - PCV 6-16/ 6-G1F-10,16 - 1998904



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Mounting: Soldering

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Base strip - DFK-PC 6-16/ 6-GF-10,16 - 1701579



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Mounting: Soldering

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Base strip - DFK-PC 6-16/ 6-GFU-10,16 - 1701731



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Mounting: Soldering

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Base strip - DFK-PCV 6-16/ 6-GF-10,16 - 1702293



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Mounting: Soldering

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Printed-circuit board connector - DFK-PC 16/ 6-STF-10,16 - 1703496



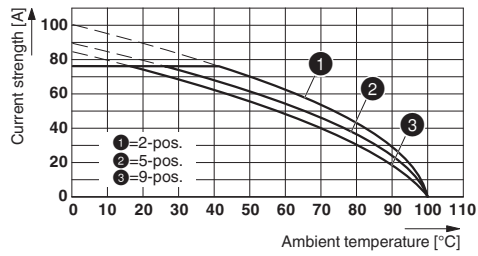
Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

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### Drawings

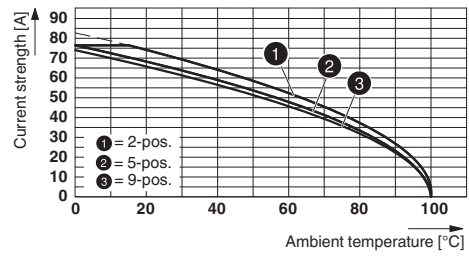
# Printed-circuit board connector - PC 16/ 6-STF-10,16 - 1967498

Diagram



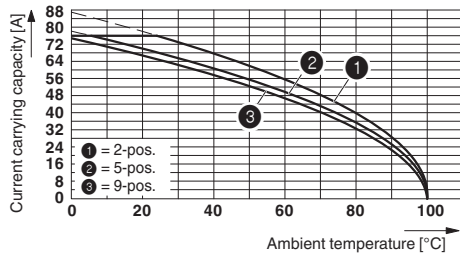
Type: PC 16/..-STF-10,16 with IPC 16/..-STGF-10,16

Diagram



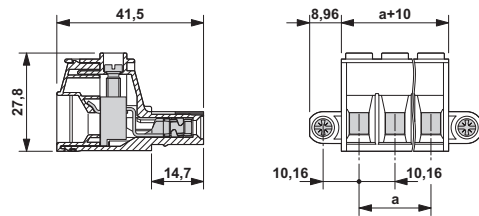
Derating curve for: PC 16/..-ST-10,16 with PC 6-16/..-G1-10,16

Diagram



Derating curve for: PC 16/..-ST-10,16 with DFK-PC 6-16/..-G-10,16

Dimensioned drawing



The illustration shows the 3-pos. version