

# Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

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Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, 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 16 plugs or inverted IPC 16 headers
- Unlimited 600 V UL approval
- Inverted IPC 16 plugs with pin contacts for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections



## Key commercial data

Packing unit	50 pc
GTIN	 4 017918 943646
Weight per Piece (excluding packing)	37.53 g
Custom tariff number	85366990
Country of origin	Poland

## Technical data

### Dimensions

Pitch	10.16 mm
Dimension a	30.48 mm

### General

Range of articles	IPC 16/..-ST
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

# Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

## Technical data

### General

Connection in acc. with standard	EN-VDE
Nominal current $I_N$	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	4
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
Maximum AWG according to UL/CUL	6

# Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

## 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	27440402

### 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 / 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	20-6	20-6
Nominal current I <sub>N</sub>	55 A	55 A

## Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

### Approvals

	B	C
Nominal voltage UN	600 V	600 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 UN	600 V	600 V

cULus Recognized		
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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

### Additional products

Printed-circuit board connector - PCU 6/ 4-STD-10,16 - 1922653



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver, Assembly: Direct mounting

Printed-circuit board connector - PC 16/ 4-ST-10,16 - 1967391



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

## Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

### Accessories

#### Printed-circuit board connector - TPC 16/ 4-ST-10,16 - 1715196



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

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#### Printed-circuit board connector - SPC 16/ 4-ST-10,16 - 1711284



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Silver

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#### Base strip - IPC 16/ 4-G-10,16 - 1969551



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

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#### Base strip - IPC 16/ 4-GU-10,16 - 1969878



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering, Plug direction parallel to the PCB: connector part rotated by 180° with respect to the plug axis.

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#### Base strip - IPCV 16/ 4-G-10,16 - 1969713



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

# Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

## Accessories

Base strip - DFK-IPC 16/ 4-G-10,16 - 1702439



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

Base strip - DFK-IPC 16/ 4-GU-10,16 - 1702510



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

Base strip - DFK-IPCV 16/ 4-G-10,16 - 1703072



Header, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Color: green, Contact surface: Silver, Assembly: Soldering

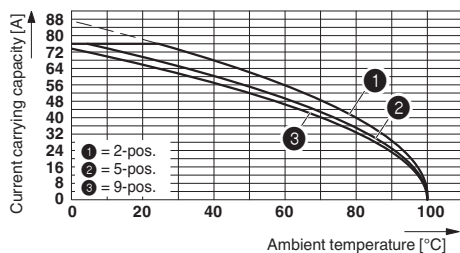
Plug - DFK-IPC 16/ 4-ST-10,16 - 1703713



Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 4, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

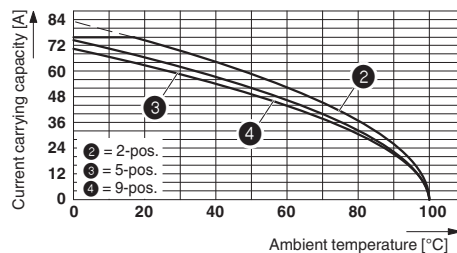
## Drawings

Diagram



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

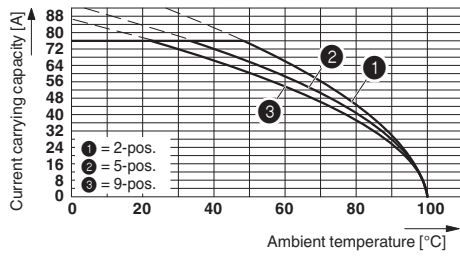
Diagram



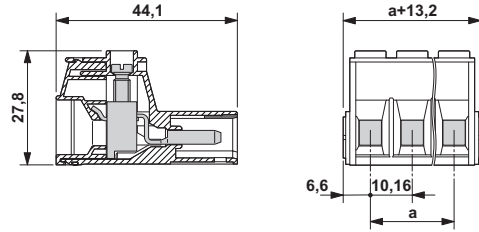
Derating curve for: IPC 16/...-ST-10,16 with IPC 16/...-G-10,16

# Printed-circuit board connector - IPC 16/ 4-ST-10,16 - 1969399

Diagram



Dimensioned drawing



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

The illustration shows the 3-pos. version