

# Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545

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



The illustration shows the 5-pos. version

## Why buy this product

- Can be plugged into (S)PC 16 plugs or inverted IPC 16 headers
- Unlimited 600 V UL approval
- Inverted Push-in spring-cage plugs with pin contacts for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections
- Increased vibration protection thanks to screw-on STF plugs with screw flange



## Key commercial data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	
Weight per Piece (excluding packing)	17.46 g
Custom tariff number	85366990
Country of origin	Bulgaria

## Technical data

### Dimensions

Pitch	10.16 mm
Dimension a	10.16 mm

### General

Range of articles	ISPC 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

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## Technical data

### General

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 (with 16 mm <sup>2</sup> conductor cross section)
Insulating material	PA
Inflammability class according to UL 94	V0
Stripping length	18 mm
Number of positions	2
Screw thread	M4
Tightening torque, min	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.	0.75 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.75 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	18
Conductor cross section AWG/kcmil max	4
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.	0.75 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.75 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm <sup>2</sup>
Minimum AWG according to UL/CUL	20
Maximum AWG according to UL/CUL	4

## Classifications

eCl@ss

eCl@ss 4.0	272607xx
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## Classifications

### eCl@ss

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

#### Approvals

UL Recognized / cUL Recognized / SEV / CCA / EAC / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

UL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-4	20-4
Nominal current I <sub>N</sub>	66 A	66 A
Nominal voltage U <sub>N</sub>	600 V	600 V

# Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545

## Approvals

cUL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	20-4	20-4
Nominal current I <sub>N</sub>	66 A	66 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

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

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



Crimping tool

## Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545

### Accessories

Crimping pliers - CRIMPFOX 16 S - 1207983



Crimping pliers for ferrules up to 16 mm<sup>2</sup>

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### Additional products

Printed-circuit board connector - PCU 6/ 2-STD-10,16 - 1922637



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

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Printed-circuit board connector - PC 16/ 2-ST-10,16 - 1967375



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

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Printed-circuit board connector - TPC 16/ 2-ST-10,16 - 1715170



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

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Printed-circuit board connector - SPC 16/ 2-ST-10,16 - 1711268



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

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## Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545

### Accessories

Base strip - IPC 16/ 2-G-10,16 - 1969535



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

Base strip - IPC 16/ 2-GU-10,16 - 1969852



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

Base strip - IPCV 16/ 2-G-10,16 - 1969690



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

Base strip - DFK-IPC 16/ 2-G-10,16 - 1702413



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

Base strip - DFK-IPC 16/ 2-GU-10,16 - 1702497



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

# Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545

## Accessories

Base strip - DFK-IPCV 16/ 2-G-10,16 - 1703056



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

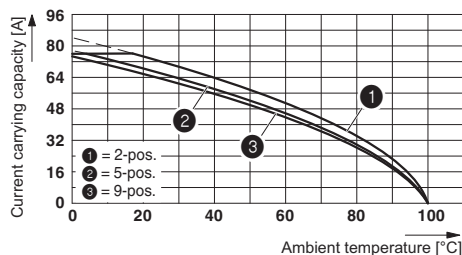
Plug - DFK-IPC 16/ 2-ST-10,16 - 1703690



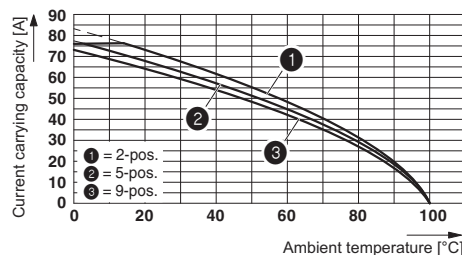
Plug component, Nominal current: 76 A, Rated voltage (III/2): 1000 V, Number of positions: 2, Pitch: 10.16 mm, Connection method: Screw connection, Color: green, Contact surface: Silver

## Drawings

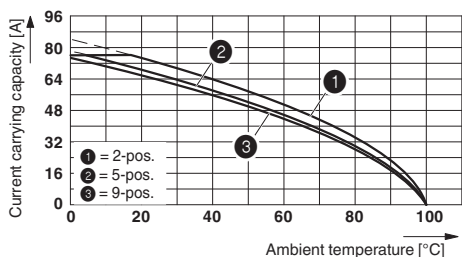
Diagram



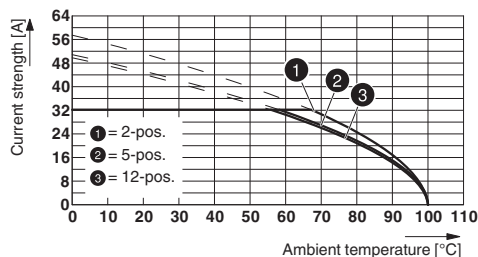
Diagram



Diagram



Diagram



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

Type: ISPC 16/...-ST-10,16 with DFK-IPC 16/...-ST-10,16

## Printed-circuit board connector - ISPC 16/ 2-ST-10,16 - 1748545

Dimensioned drawing

