

# Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

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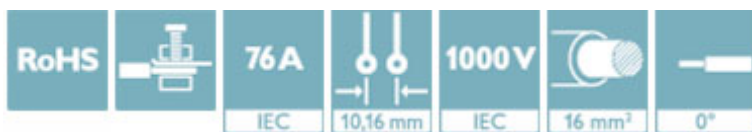
Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver



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

## Why buy this product

- ✓ 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
- ✓ Screwable flange for superior mechanical stability
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



## Key Commercial Data

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	
GTIN	4017918939328
Weight per Piece (excluding packing)	30.230 g
Custom tariff number	85366990
Country of origin	Poland

## Technical data

### Dimensions

Length [ l ]	41.5 mm
Width [ w ]	48.24 mm
Height [ h ]	27.8 mm
Pitch	10.16 mm
Dimension a	20.32 mm

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## Technical data

### General

Range of articles	PC 16/...-STF
Type of contact	Female connector
Number of positions	3
Connection method	Screw connection with tension sleeve
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
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
Flammability rating according to UL 94	V0
Internal cylindrical gage	A6
Stripping length	12 mm
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 flexible min.	0.75 mm <sup>2</sup>
Conductor cross section flexible max.	16 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	16 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	10 mm <sup>2</sup> Only in connection with CRIMPFOX 16 S
Conductor cross section AWG min.	18
Conductor cross section AWG 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>

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## Technical data

### Connection data

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

### Standards and Regulations

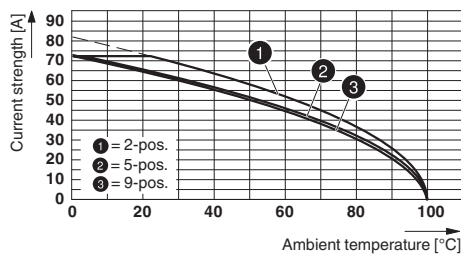
Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

### Environmental Product Compliance

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

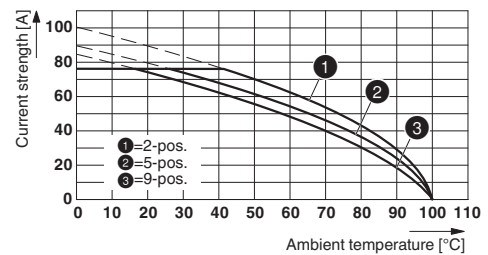
## Drawings

Diagram



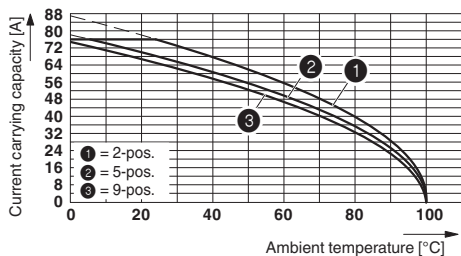
Type: PC 16/...-STF-10,16 with PC 6-16/...-G1F-10,16

Diagram



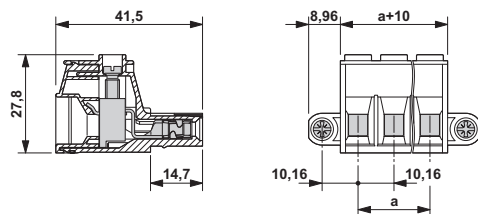
Type: PC 16/...-STF-10,16 with IPC 16/...-STGF-10,16

Diagram



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

Dimensional drawing



# Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

## 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
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	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 / SEV / cUL Recognized / IECCE CB Scheme / EAC / cULus Recognized

#### Ex Approvals

### Approval details

UL 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>	FILE E 60425
	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	

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## Approvals

SEV		<a href="https://www.electrosuisse.ch/en/meta/shop/product-certificates.html">https://www.electrosuisse.ch/en/meta/shop/product-certificates.html</a>	IK-3431
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		<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>	FILE E 60425
		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

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	CH-8077
Nominal current I <sub>N</sub>	76 A		
Nominal voltage U <sub>N</sub>	1000 V		

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>
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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



## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

Crimping pliers - CRIMPFOX 16 S - 1207983



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

#### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

#### Terminal marking

Marker strip - SK 5,0 WH:REEL - 0805221



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: adhesive, for terminal block width: 5 mm, Lettering field: continuous x 5 mm

#### Additional products

Base strip - PCV 6-16/ 3-G1F-10,16 - 1998878



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

#### Base strip - PC 6-16/ 3-G1F-10,16 - 1999013



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

#### Base strip - PC 6-16/ 3-G1FU-10,16 - 1996320



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

#### Printed-circuit board connector - IPC 16/ 3-STGF-10,16 - 1975820



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver

#### Printed-circuit board connector - ISPC 16/ 3-STGF-10,16 - 1748710



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Push-in spring connection, Color: green, contact surface: Silver

#### Printed-circuit board connector - DFK-PC 16/ 3-STF-10,16 - 1703467



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver

## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

Printed-circuit board connector - DFK-PC 16/ 3-STF-SH-10,16 - 1703629



Plug component, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Silver

Base strip - DFK-PC 6-16/ 3-GF-10,16 - 1701540



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

Base strip - DFK-PC 6-16/ 3-GFU-10,16 - 1701702



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

Base strip - DFK-PCV 6-16/ 3-GF-10,16 - 1702264



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering

Base strip - DFK-PC 6-16/ 3-GF-SH-10,16 - 1701948



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering



## Printed-circuit board connector - PC 16/ 3-STF-10,16 - 1967469

### Accessories

Base strip - DFK-PC 6-16/ 3-GFU-SH-10,16 - 1702028



Header, nominal current: 76 A, rated voltage (III/2): 1000 V, number of positions: 3, pitch: 10.16 mm, Color: green, contact surface: Silver, mounting: Wave soldering