

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

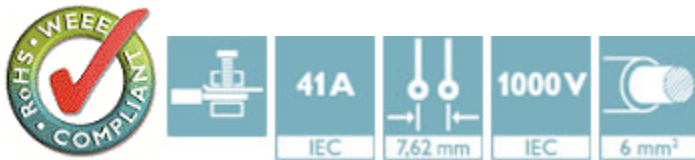
Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 7.62 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin



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

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
- Automatic, tool-free snap-lock mechanism using the Click and Lock system (-STCL); high level of safety even in the event of vibrations
- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded/10 mm², solid



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
Weight per Piece (excluding packing)	16.4 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Length	35.5 mm
Height	19.7 mm
Pitch	7.62 mm
Dimension a	15.24 mm

General

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Technical data

General

Range of articles	PC 5/...STF1
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
Nominal current I_N	41 A
Nominal cross section	6 mm ²
Maximum load current	41 A
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A4
Stripping length	10 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.8 Nm
Note	Tightening torque $\leq 4 \text{ mm}^2$ is 0.5 Nm to 0.6 Nm, $> 4 \text{ mm}^2$ is 0.7 Nm to 0.8 Nm

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	10 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	6 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
2 conductors with same cross section, solid min.	0.2 mm ²
2 conductors with same cross section, solid max.	2.5 mm ²
2 conductors with same cross section, stranded min.	0.2 mm ²

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Technical data

Connection data

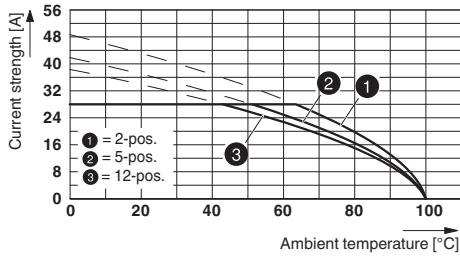
2 conductors with same cross section, stranded max.	4 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	2.5 mm ²
Minimum AWG according to UL/CUL	24
Maximum AWG according to UL/CUL	8

Standards and Regulations

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

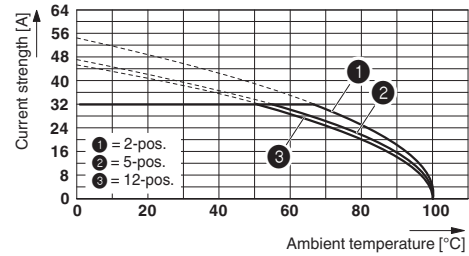
Drawings

Diagram



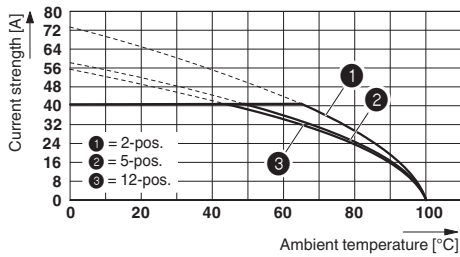
Derating curve for: PC 5/...-STF1-7,62 with PC 4/...-G-7,62
Conductor cross section: 4 mm²

Diagram



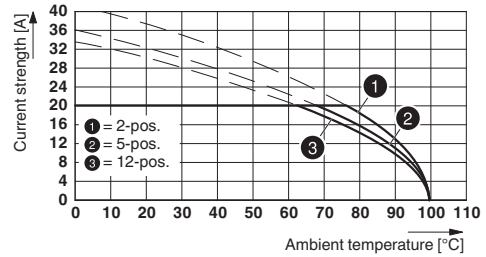
Derating curve for: PC 5/...-STF1-7,62 with PC 5/...-G-7,62
Conductor cross section: 6 mm²

Diagram



Derating curve for: PC 5/...-STF1-7,62 with PC 5/...-G-7,62
Conductor cross section: 10 mm²

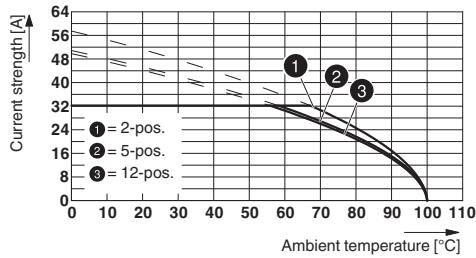
Diagram



Type: PC 5/...-STF1-7,62 with PCVK 4-7,62 and PCVK 4-7,62-F

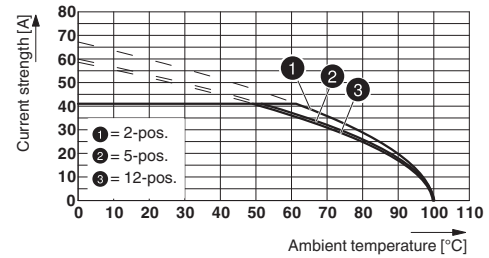
Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Diagram



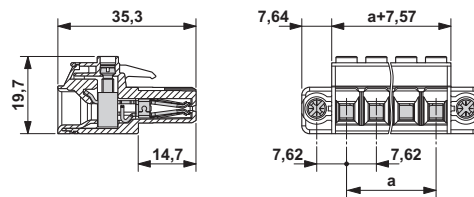
Type: PC 5/...-ST(F)1-7,62 with PC 5/...-GU(F)-7,62
 Conductor cross section: 6 mm²

Diagram



Type: PC 5/...-ST(F)1-7,62 with PC 5/...-G(F)U-7,62
 Conductor cross section: 10 mm²

Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27141109
eCl@ss 4.1	27141109
eCl@ss 5.0	27141190
eCl@ss 5.1	27141190
eCl@ss 6.0	27261101
eCl@ss 7.0	27440402
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002638

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Classifications

UNSPSC

UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized		
	B	C
mm ² /AWG/kcmil	24-8	24-8
Nominal current I _N	41 A	41 A
Nominal voltage U _N	600 V	600 V

cUL Recognized		
	B	C
mm ² /AWG/kcmil	24-8	24-8
Nominal current I _N	41 A	41 A
Nominal voltage U _N	600 V	600 V

EAC

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Approvals

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

Labeled terminal marker

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Adhesive, for terminal block width: 7.62 mm, Lettering field: 7.62 x 3.8 mm

Marker card - SK 3,8 REEL P7,62 WH CUS - 0825128



Marker card, can be ordered: By card, white, labeled according to customer specifications, Mounting type: Adhesive, for terminal block width: 7.62 mm, Lettering field: continuous x 3.8 mm

Screwdriver tools

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Accessories

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

Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: Plotter, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 3.8 mm

Marker strip - SK 3,8 WH:REEL - 0805218



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK X, THERMOMARK S1.1, THERMOMARK ROLL X1, Mounting type: Adhesive, Lettering field: continuous x 3.8 mm

Additional products

Printed-circuit board connector - IPC 5/ 3-STGF-7,62 - 1709270



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 7.62 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

Printed-circuit board connector - ISPC 5/ 3-STGF-7,62 - 1749214



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 7.62 mm, Connection method: Push-in spring connection, Color: green, Contact surface: Tin

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Accessories

Printed-circuit board connector - PC 5/ 3-GF-7,62 - 1720806



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - PC 5/ 3-GFU-7,62 - 1721025



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - PCV 5/ 3-GF-7,62 - 1720916



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 3-GF-7,62 - 1727702



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 3-GFU-7,62 - 1727922



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - PC 5/ 3-STF1-7,62 - 1777846

Accessories

Printed-circuit board connector - DFK-PCV 5/ 3-GF-7,62 - 1716409



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 3-GF-SH-7,62 - 1716072



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 3-GFU-SH-7,62 - 1716182



Header, Nominal current: 41 A, Rated voltage (III/2): 630 V, Number of positions: 3, Pitch: 7.62 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Printed-circuit board connector - DFK-PC 5/ 3-STF-7,62 - 1716629



Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 3, Pitch: 7.62 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin
