

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

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 documentation. Our general terms of use for downloads are valid.



PCB connector, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: PC 4/..-STF, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

Your advantages

- 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

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1828265 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AAD |
| Product key | AADAAD |
| Catalog page | Page 513 (C-1-2013) |
| GTIN | 4017918050498 |
| Weight per piece (including packing) | 20.369 g |
| Weight per piece (excluding packing) | 19.552 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

Technical data

Product properties

| | |
|-----------------------|-----------------------|
| Product type | PCB connector |
| Product family | PC 4/..-STF |
| Product line | COMBICON Connectors L |
| Type | Standard |
| Number of positions | 4 |
| Pitch | 7.62 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Number of potentials | 4 |
| Mounting flange | Screw flange |

Data management status

| | |
|------------------|----|
| Article revision | 05 |
|------------------|----|

Electrical properties

| | |
|-----------------------------|----------------|
| Nominal current I_N | 20 A |
| Nominal voltage U_N | 630 V |
| Contact resistance | 0.5 m Ω |
| Rated voltage (III/3) | 400 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |

Connection data

Connection technology

| | |
|-------------------------|-------------------|
| Type | Standard |
| Connector system | COMBICON PC 4 |
| Nominal cross section | 4 mm ² |
| Contact connection type | Socket |

Interlock

| | |
|-------------------|-------------------------|
| Locking type | Screw locking mechanism |
| Mounting flange | Screw flange |
| Tightening torque | 0.3 Nm ... 0.7 Nm |

Conductor connection

| | |
|------------------------------------|---|
| Connection method | Screw connection with tension sleeve |
| Conductor/PCB connection direction | 0 ° |
| Conductor cross section rigid | 0.2 mm ² ... 4 mm ² |

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

| | |
|---|--|
| Conductor cross section flexible | 0.2 mm ² ... 4 mm ² |
| Conductor cross section AWG | 24 ... 10 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 4 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 4 mm ² |
| 2 conductors with same cross section, solid | 0.2 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, flexible | 0.2 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Cylindrical gauge a x b / diameter | 3.6 mm x 3.1 mm / 3.0 mm |
| Stripping length | 7 mm |
| Drive form screw head | Slotted (L) |
| Tightening torque | 0.5 Nm ... 0.6 Nm |

Material specifications

Material data - contact

| | |
|--|--|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| Contact material | Cu alloy |
| Surface characteristics | hot-dip tin-plated |
| Metal surface terminal point (top layer) | Tin (4 - 8 μm Sn) |
| Metal surface contact area (top layer) | Tin (4 - 8 μm Sn) |

Material data - housing

| | |
|---|--------------|
| Color (Housing) | green (6021) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

Dimensions

| | |
|---------------------|---------|
| Dimensional drawing | |
| Pitch | 7.62 mm |
| Width [w] | 45.7 mm |

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

| | |
|------------|---------|
| Height [h] | 18.1 mm |
| Length [l] | 30.7 mm |

Mounting

Flange

| | |
|-------------------|-------------------|
| Tightening torque | 0.3 Nm ... 0.7 Nm |
|-------------------|-------------------|

Notes

| | |
|--------------------|--|
| Notes on operation | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|--------------------|--|

Mechanical tests

Test for conductor damage and slackening

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |

Pull-out test

| | |
|---|---|
| Specification | IEC 60999-1:1999-11 |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 0.2 mm ² / solid / > 10 N |
| | 0.2 mm ² / flexible / > 10 N |
| | 4 mm ² / solid / > 60 N |
| | 4 mm ² / flexible / > 60 N |

Insertion and withdrawal forces

| | |
|-------------------------------------|------------------------|
| Specification | IEC 60512-13-2:2006-02 |
| Result | Test passed |
| No. of cycles | 50 |
| Insertion strength per pos. approx. | 8 N |
| Withdraw strength per pos. approx. | 5 N |

Torque test

| | |
|---------------|---------------------|
| Specification | IEC 60999-1:1999-11 |
|---------------|---------------------|

Resistance of inscriptions

| | |
|---------------|------------------------|
| Specification | IEC 60068-2-70:1995-12 |
| Result | Test passed |

Polarization and coding

| | |
|---------------|------------------------|
| Specification | IEC 60512-13-5:2006-02 |
| Result | Test passed |

Visual inspection

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-1:2002-02 |
| Result | Test passed |

Dimension check

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-2:2002-02 |
| Result | Test passed |

Environmental and real-life conditions

Vibration test

| | |
|------------------------|-----------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz ... 60.1 Hz) |
| Acceleration | 5g (60.1 Hz ... 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Durability test

| | |
|--|-----------------------|
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 7.3 kV |
| Contact resistance R ₁ | 0.5 mΩ |
| Contact resistance R ₂ | 0.6 mΩ |
| Insertion/withdrawal cycles | 50 |

Climatic test

| | |
|-----------------------------------|---|
| Specification | ISO 6988:1985-02 |
| Corrosive stress | 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Thermal stress | 100 °C/168 h |
| Power-frequency withstand voltage | 3.31 kV |

Shocks

| | |
|-----------------|-----------------------------------|
| Specification | IEC 60068-2-27:2008-02 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 100 °C (dependent on the derating curve) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |

Electrical tests

Thermal test | Test group C

| | |
|----------------------------|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 12 |

Insulation resistance

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

| | |
|--|-----------------------|
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 5 MΩ |

Air clearances and creepage distances |

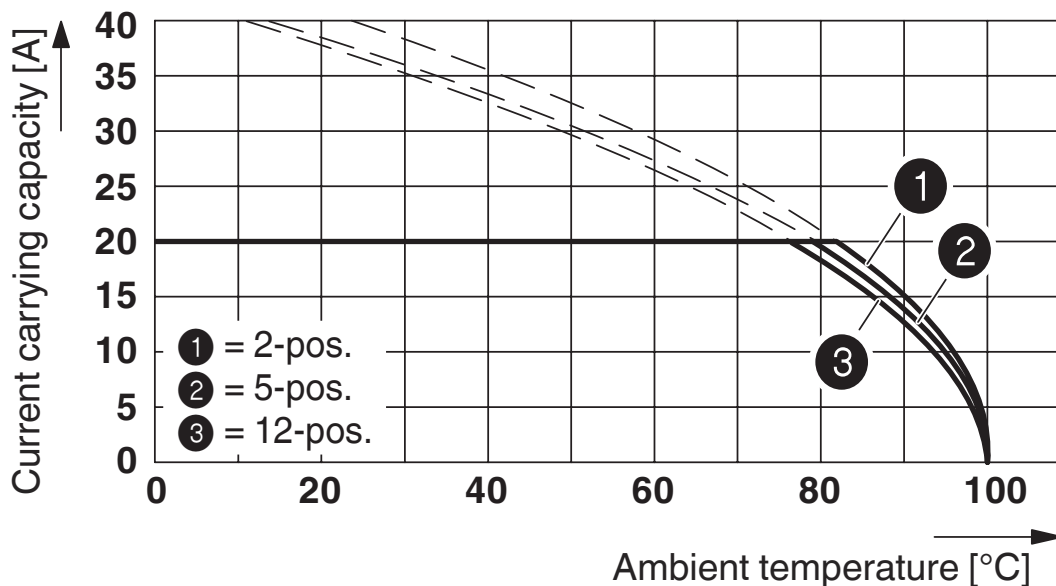
| | |
|--|---------------------|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 400 V |
| Rated surge voltage (III/3) | 6 kV |
| minimum clearance value - non-homogenous field (III/3) | 5.5 mm |
| minimum creepage distance (III/3) | 5.5 mm |
| Rated insulation voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |
| minimum clearance value - non-homogenous field (III/2) | 5.5 mm |
| minimum creepage distance (III/2) | 5.5 mm |
| Rated insulation voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| minimum clearance value - non-homogenous field (II/2) | 5.5 mm |
| minimum creepage distance (II/2) | 5.5 mm |

Packaging specifications

| | |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

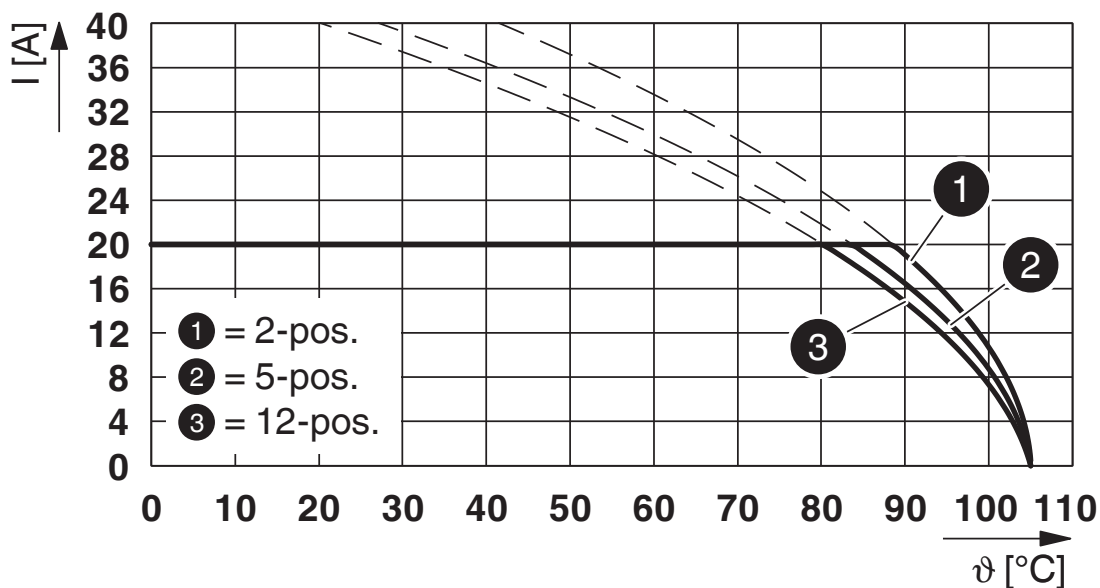
Drawings

Diagram



Type: PC 4/...-STF-7,62 with DFK-PC 4/...-GF-7,62

Diagram



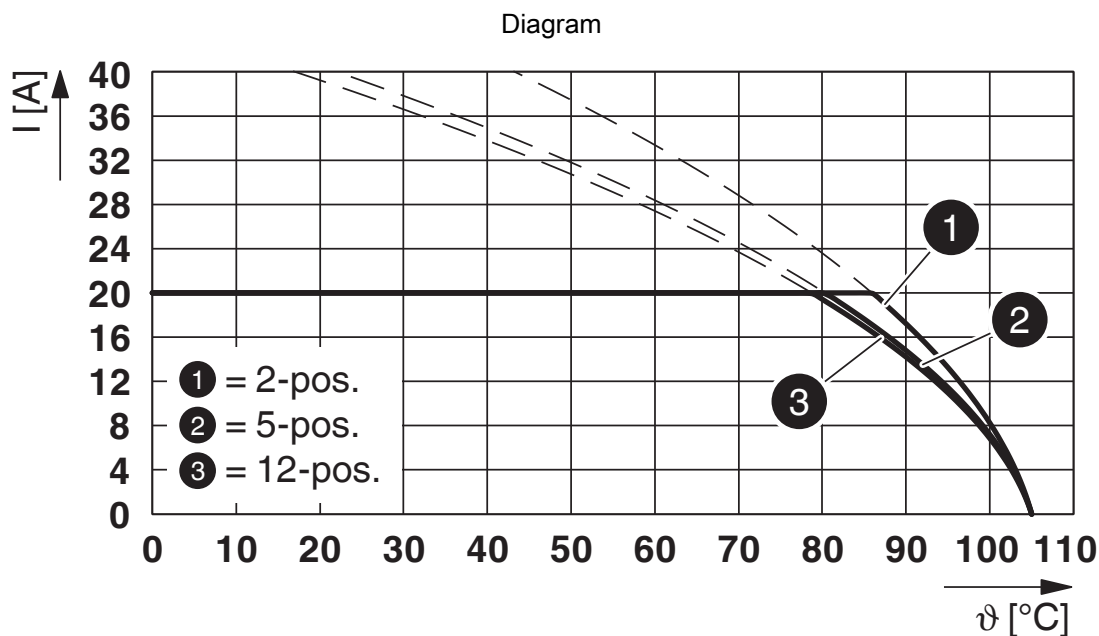
Type: PC 4/...-STF-7,62 with PC 5/...-GFU-7,62

PC 4/ 4-STF-7,62 - PCB connector

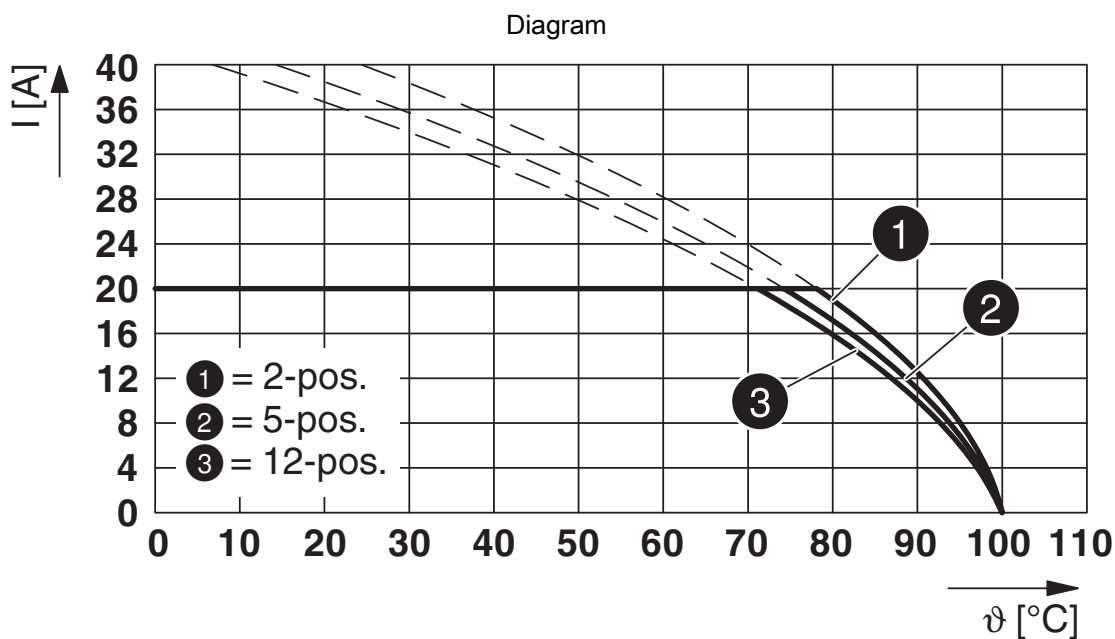


1828265

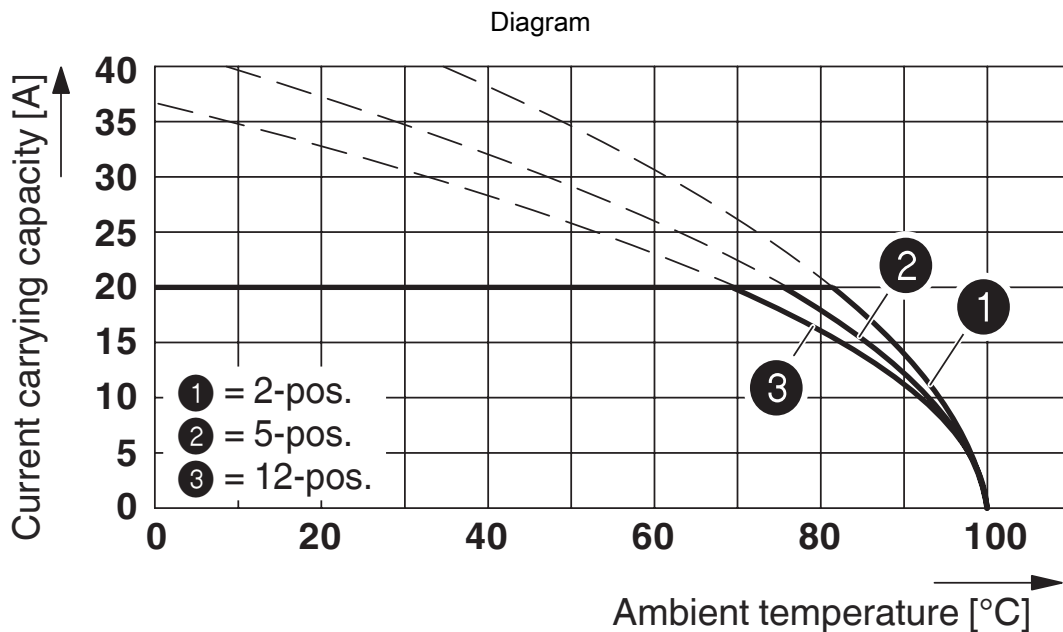
<https://www.phoenixcontact.com/sk/products/1828265>



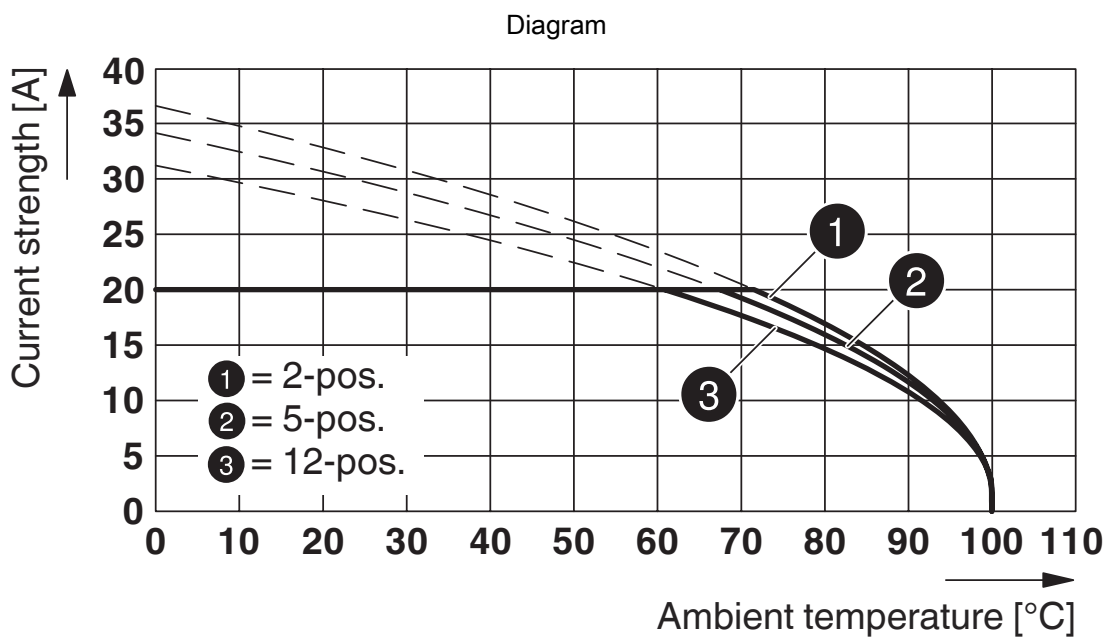
Type: PC 4/...-STF-7,62 with PC 5/...-GF-7,62



Type: PC 4/...-STF-7,62 with IPC 5/...-STGF-7,62



Type: PC 4/...-STF-7,62 with PC 4/...-G-7,62 and BF-PC 4



Type: PC 4/...-STF-7,62 with PCV 4/...-G-7,62 and BF-PC 4

PC 4/ 4-STF-7,62 - PCB connector





1828265

<https://www.phoenixcontact.com/sk/products/1828265>


Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sk/products/1828265>

|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | 300 V | 20 A | 28 - 10 | - |
| Use group C | 300 V | 20 A | 28 - 10 | - |

|  cULus Recognized Approval ID: E60425-19920722 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | 300 V | 30 A | 30 - 10 | - |
| Use group C | 300 V | 30 A | 30 - 10 | - |
| Use group D | 600 V | 5 A | 30 - 10 | - |

|  DNV GL Approval ID: TAE00001EZ | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  LR Approval ID: LR21308805TA | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  BV Approval ID: 35433/B0 BV | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27460202 |
| ECLASS-12.0 | 27460202 |
| ECLASS-13.0 | 27460202 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002638 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

PC 4/ 4-STF-7,62 - PCB connector



1828265

<https://www.phoenixcontact.com/sk/products/1828265>

Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

PC 4/ 4-STF-7,62 - PCB connector

1828265

<https://www.phoenixcontact.com/sk/products/1828265>

Accessories

CP-PC RD - Coding profile

1701967

<https://www.phoenixcontact.com/sk/products/1701967>

Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red



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

0804549

<https://www.phoenixcontact.com/sk/products/0804549>

Marker 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, text field height: 3.8 mm, text field width: 7.62 mm



PC 4/ 4-STF-7,62 - PCB connector

1828265

<https://www.phoenixcontact.com/sk/products/1828265>



SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/sk/products/1205053>

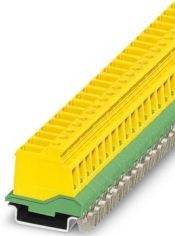


Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

PCVK 4-7,62-PE - DIN rail connector

1876246

<https://www.phoenixcontact.com/sk/products/1876246>



DIN rail connector, nominal cross section: 4 mm², color: green-yellow, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Pin, number of potentials: 1, number of rows: 1, number of positions: 1, number of connections: 1, product range: PCVK 4-PE, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard

PC 4/ 4-STF-7,62 - PCB connector

1828265

<https://www.phoenixcontact.com/sk/products/1828265>



PCVK 4-7,62 - DIN rail connector

1849998

<https://www.phoenixcontact.com/sk/products/1849998>



DIN rail connector, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Pin, number of potentials: 1, number of rows: 1, number of positions: 1, number of connections: 1, product range: PCVK 4, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard

UPCV3K 4-G-7,62 - Feed-through terminal block

1838381

<https://www.phoenixcontact.com/sk/products/1838381>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 20 A, number of connections: 4, number of positions: 1, connection method: Screw/plug-in connection, cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

PC 4/ 4-STF-7,62 - PCB connector



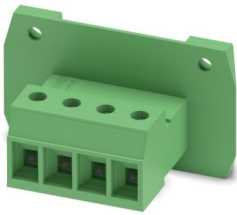
1828265

<https://www.phoenixcontact.com/sk/products/1828265>

DFK-PC 4/ 4-GF-7,62 - Feed-through plug

1840573

<https://www.phoenixcontact.com/sk/products/1840573>



Feed-through connector, nominal cross section: 4 mm², color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: DFK-PC 4/..-GF, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Direct mounting, conductor/PCB connection direction: 0 °, number of solder pins per potential: 1, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT s.r.o.

Námestie Mateja Korvína 1

811 07 Bratislava

+421 2 3210 1470

obchod.sk@phoenixcontact.com