

# PW 4-POT-SCM - Panel feed-through terminal block



3056938

<https://www.phoenixcontact.com/us/products/3056938>

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Panel feed-through terminal block, connection method: Push-in spring connection, Spade connection, number of positions: 1, load current: 18 A, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, connection direction of the conductor to plug-in direction: 45 °, width: 8.1 mm

## Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Intuitive operation due to color-coded actuating push button
- Tool-free snap-in principle enables easy mounting on the device panel
- Automatic panel thickness compensation enables universal use
- Reliable seal even with low-viscosity molding compounds

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3056938             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | AA28                |
| Product key                          | AA1AEA              |
| Catalog page                         | Page 601 (C-1-2013) |
| GTIN                                 | 4046356485500       |
| Weight per piece (including packing) | 8.83 g              |
| Weight per piece (excluding packing) | 8.66 g              |
| Customs tariff number                | 85369010            |
| Country of origin                    | CN                  |

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## Technical data

### Product properties

|                       |                                   |
|-----------------------|-----------------------------------|
| Product type          | Panel feed-through terminal block |
| Product family        | PW 4-POT-SCM                      |
| Number of positions   | 1                                 |
| Pitch                 | 8.1 mm                            |
| Number of connections | 2                                 |
| Number of rows        | 1                                 |
| Number of potentials  | 1                                 |
| Potentials            | 1                                 |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                             |       |
|-----------------------------|-------|
| Nominal current $I_N$       | 18 A  |
| Nominal voltage $U_N$       | 800 V |
| Rated voltage (III/3)       | 800 V |
| Rated surge voltage (III/3) | 8 kV  |

### Connection data

#### Connection technology

|                       |                   |
|-----------------------|-------------------|
| Connector system      | PW 4              |
| Nominal cross section | 4 mm <sup>2</sup> |

#### Conductor connection exterior

|   |  |
|---|--|
| Connection method   | Push-in spring connection                  |
| Connection direction of the conductor to plug-in direction                                | 45 °                                       |
| Conductor cross section rigid   | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Conductor cross section flexible  | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve                     | 0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                      | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>  |
| Internal cylindrical gage   | A4   |
| Stripping length  | 10 mm                                      |

#### Conductor connection interior

|  |                  |
|--|------------------|
| Connection method  | Spade connection |
| Connection direction of the conductor to plug-in direction | 0 °              |

## Mounting

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## Attachment to feed-through panel

|                   |   |
|-------------------|---|
| Tightening torque | 0.5 Nm ... 0.6 Nm (Mounting screw torque) |
|-------------------|---|

## 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 | tin-plated   |

### Material data - housing

|   |             |
|---|-------------|
| Color (Housing)   | gray (7042) |
| 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      |

### Material data – actuating element

|  |     |
|--|-----|
| Insulating material                    | PA  |
| Insulating material group              | I   |
| CTI according to IEC 60112             | 600 |
| Flammability rating according to UL 94 | V0  |

## Notes

### Safety note

|             |  |
|-------------|--|
| Safety note | • Only electrically qualified personnel may install and operate the product.<br>To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.           |
|             | • Observe the technical data provided here and refer to the documents listed under “Downloads”. The download area contains important information, such as installation notes, technical drawings, and 3D data. |
|             | • To maintain the nominal voltage, cast the terminals on the inside.   |

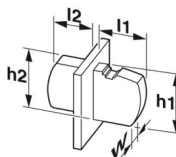
## Dimensions

# PW 4-POT-SCM - Panel feed-through terminal block



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|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Pitch               | 8.1 mm   |
| Width [w]           | 8.1 mm   |

## External dimensions

|             |         |
|-------------|---------|
| Height [h1] | 30 mm   |
| Length [l1] | 30.5 mm |

## Internal dimensions

|             |         |
|-------------|---------|
| Height [h2] | 27 mm   |
| Length [l2] | 15.5 mm |

## Mechanical tests

### Test for conductor damage and slackening

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60947-7-1:2009-04 |
| Result        | Test passed           |

### Pull-out test

|   |   |
|---|---|
| Specification   | IEC 60947-7-1:2009-04                   |
| Conductor cross section/conductor type/tractive force setpoint/actual value | 0.2 mm <sup>2</sup> / solid / > 10 N    |
|   | 0.2 mm <sup>2</sup> / flexible / > 10 N |
|   | 4 mm <sup>2</sup> / solid / > 60 N      |
|   | 4 mm <sup>2</sup> / flexible / > 60 N   |

## Electrical tests

### Temperature-rise test

|                                   |                                |
|-----------------------------------|--------------------------------|
| Specification                     | IEC 60512-5-1:2002-02          |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

### Short-time withstand current

|               |                       |
|---------------|-----------------------|
| Specification | IEC 60947-7-1:2009-04 |
|---------------|-----------------------|

### Air clearances and creepage distances | 1. Insulation coordination

|  |                              |
|--|------------------------------|
| Application  | Metal wall 1.0 mm ... 4.0 mm |
| Specification  | IEC 60664-1:2007-04          |
| Insulating material group                              | I                            |
| Comparative tracking index (IEC 60112)                 | CTI 600                      |
| Rated insulation voltage (III/3)                       | 800 V                        |
| Rated surge voltage (III/3)                            | 8 kV                         |
| minimum clearance value - non-homogenous field (III/3) | 8 mm                         |
| minimum creepage distance (III/3)                      | 10 mm                        |

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## Environmental and real-life conditions

### Vibration test

|                        |                             |
|------------------------|-----------------------------|
| Specification          | IEC 60068-2-6:2007-12       |
| Frequency              | 10 Hz ... 150 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                       |

### Glow-wire test

|                  |                        |
|------------------|------------------------|
| Specification    | IEC 60695-2-11:2000-10 |
| Temperature      | 960 °C                 |
| Time of exposure | 30 s                   |

### Ambient conditions

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

## Packaging specifications

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

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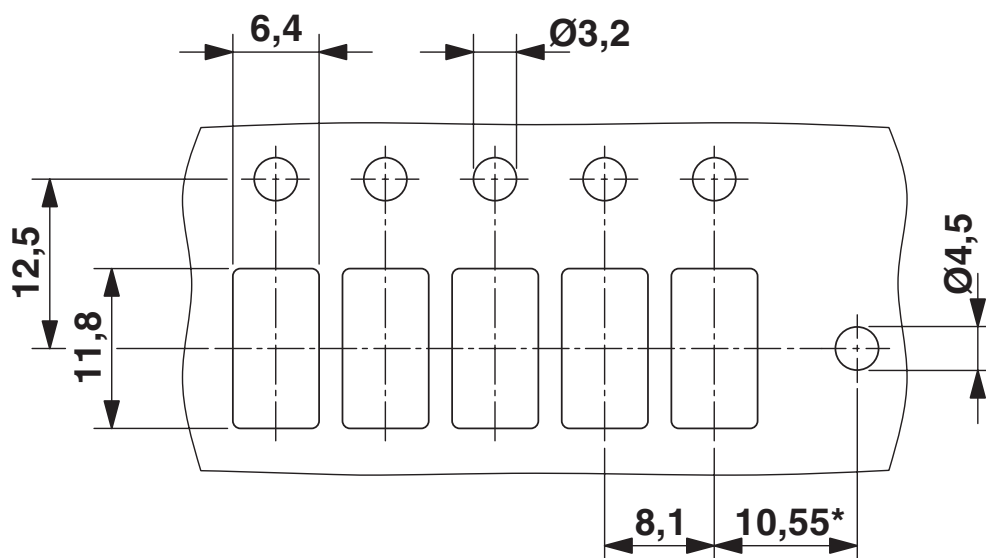


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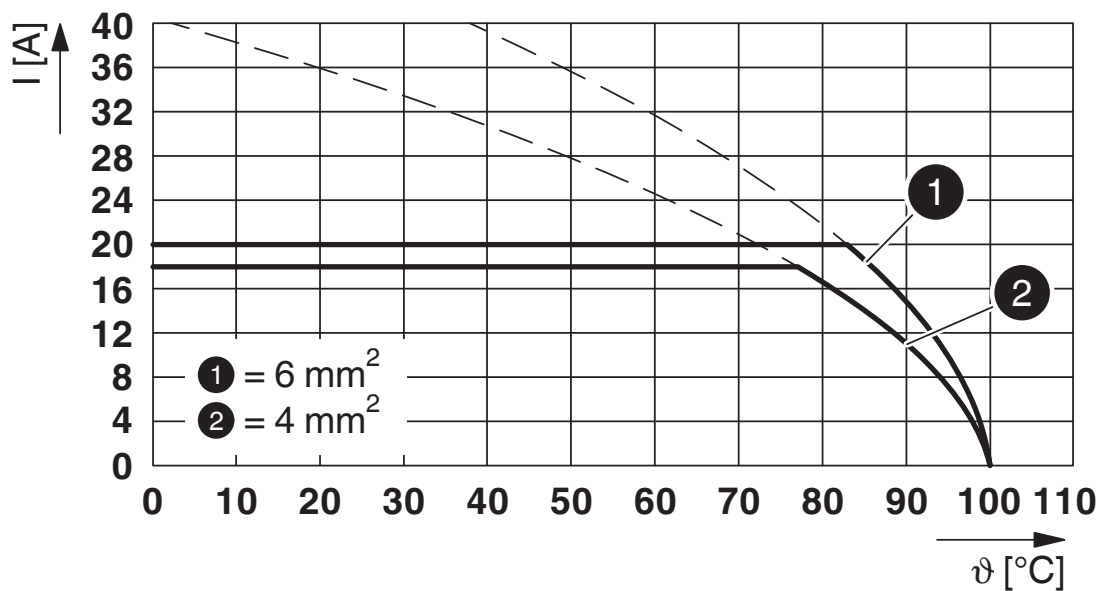
## Drawings

Dimensional drawing



\*Only when using the PW 4-F flange plate

Diagram



Type: PW(O) 4-POT-SCM(/S)

# PW 4-POT-SCM - Panel feed-through terminal block





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3056938>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B  |                       |                       |                   |                             |
|  | 300 V                 | 30 A                  | 24 - 10           | -                           |
| Use group C  |                       |                       |                   |                             |
|  | 300 V                 | 30 A                  | 24 - 10           | -                           |
| Use group D  |                       |                       |                   |                             |
|  | 600 V                 | 5 A                   | 24 - 10           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-20100423 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B   |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 24 - 10           | -                           |
| Use group C   |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 24 - 10           | -                           |
| Use group D   |                       |                       |                   |                             |
|   | 600 V                 | 5 A                   | 24 - 10           | -                           |

# PW 4-POT-SCM - Panel feed-through terminal block



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141134 |
| ECLASS-13.0 | 27141134 |
| ECLASS-12.0 | 27141134 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001283 |
|----------|----------|

### UNSPSC

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



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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%               |

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## Accessories

### EB 2- 8 - Insertion bridge

0202154

<https://www.phoenixcontact.com/us/products/0202154>

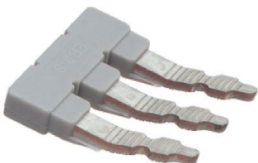


Insertion bridge, pitch: 8 mm, number of positions: 2, color: gray

### EB 3- 8 - Insertion bridge

0202141

<https://www.phoenixcontact.com/us/products/0202141>



Insertion bridge, pitch: 8 mm, number of positions: 3, color: gray

# PW 4-POT-SCM - Panel feed-through terminal block



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## EB 4- 8 - Insertion bridge

0202142

<https://www.phoenixcontact.com/us/products/0202142>

Insertion bridge, pitch: 8 mm, number of positions: 4, color: gray



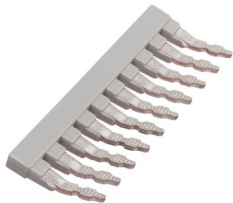
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## EB 10- 8 - Insertion bridge

0202138

<https://www.phoenixcontact.com/us/products/0202138>

Insertion bridge, pitch: 8 mm, number of positions: 10, color: gray



# PW 4-POT-SCM - Panel feed-through terminal block



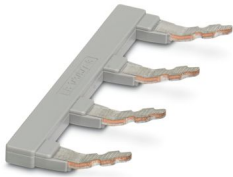
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## EB 1/3/5/7-8 - Insertion bridge

3072340

<https://www.phoenixcontact.com/us/products/3072340>



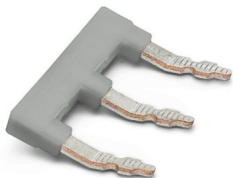
Insertion bridge, pitch: 16.4 mm, number of positions: 4, pin assignment: 1, 3, 5, 7, length: 24 mm, color: gray

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## EB 1/3/5-8 - Insertion bridge

3072341

<https://www.phoenixcontact.com/us/products/3072341>



Insertion bridge, pitch: 16.4 mm, number of positions: 3, pin assignment: 1,3,5, length: 24 mm, color: gray

# PW 4-POT-SCM - Panel feed-through terminal block



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## TMT (EX9,5)R - Marker for terminal blocks

0828295

<https://www.phoenixcontact.com/us/products/0828295>



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snapped, snap into tall marker groove, for terminal block width: 30000 mm, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

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## UC-TM 8 - Marker for terminal blocks

0818072

<https://www.phoenixcontact.com/us/products/0818072>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 56

# PW 4-POT-SCM - Panel feed-through terminal block



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## UC-TMF 8 - Marker for terminal blocks

0818137

<https://www.phoenixcontact.com/us/products/0818137>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

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## ZB 8:UNBEDRUCKT - Zack marker strip

1052002

<https://www.phoenixcontact.com/us/products/1052002>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

# PW 4-POT-SCM - Panel feed-through terminal block



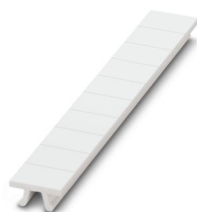
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## ZB 8 CUS - Zack marker strip

0825011

<https://www.phoenixcontact.com/us/products/0825011>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

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## UC-TMF 8 CUS - Marker for terminal blocks

0824654

<https://www.phoenixcontact.com/us/products/0824654>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

# PW 4-POT-SCM - Panel feed-through terminal block



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## UC-TM 8 CUS - Marker for terminal blocks

0824597

<https://www.phoenixcontact.com/us/products/0824597>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 56

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## ZBF 8:UNBEDRUCKT - Zack Marker strip, flat

0808781

<https://www.phoenixcontact.com/us/products/0808781>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10



# PW 4-POT-SCM - Panel feed-through terminal block



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## ZBF 8 CUS - Zack Marker strip, flat

0825030

<https://www.phoenixcontact.com/us/products/0825030>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

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## SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/us/products/1204517>



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

## PW 4-POT-SCM - Panel feed-through terminal block

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## UCT-TM 8 - Marker for terminal blocks

0828740

<https://www.phoenixcontact.com/us/products/0828740>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

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## C-SCFFI 1,5/6,3X0,8 - Connector

3240538

<https://www.phoenixcontact.com/us/products/3240538>



Slip-on sleeve, fully isolated, red, 0.5 ... 1.5 mm<sup>2</sup>, for plug 6.3 x 0.8 mm

# PW 4-POT-SCM - Panel feed-through terminal block



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## C-SCFFI 2,5/6,3X0,8 - Connector

3240547

<https://www.phoenixcontact.com/us/products/3240547>



Slip-on sleeve, fully isolated, blue, 1.5 ... 2.5 mm<sup>2</sup>, for plug 6.3 x 0.8 mm

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## C-SCFFI 6/6,3X0,8 - Connector

3240541

<https://www.phoenixcontact.com/us/products/3240541>



Slip-on sleeve, fully insulated, yellow, 4 ... 6 mm<sup>2</sup>, for 6.3 x 0.8 mm plugs

# PW 4-POT-SCM - Panel feed-through terminal block



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## C-SCF 1,5/6,3X0,8 - Connector

3240156

<https://www.phoenixcontact.com/us/products/3240156>



Slip-on sleeve, non-insulated, 0.5 ... 1.5 mm<sup>2</sup>, 6.3 x 0.8

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## C-SCF 2,5/6,3X0,8 - Connector

3240159

<https://www.phoenixcontact.com/us/products/3240159>



Slip-on sleeve, non-insulated, 1.5 ... 2.5 mm<sup>2</sup>, 6.3 x 0.8

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## C-SCF 6/6,3X0,8 - Connector

3240160

<https://www.phoenixcontact.com/us/products/3240160>



Slip-on sleeve, non-insulated, 4 ... 6 mm<sup>2</sup>, 6.3 x 0.8

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