

# VARIOCON

## Modular Contact Inserts

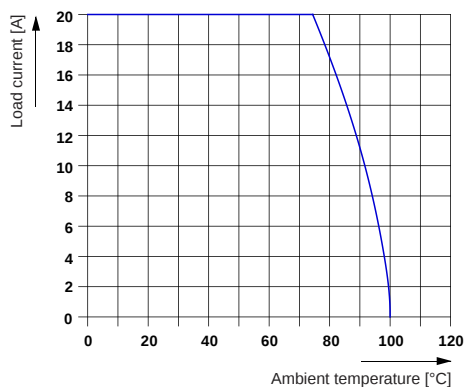
### 1. Short Description

The modular contact inserts are based on the tried-and-tested COMBICON technology. They are available with the screw connection system and on the equipment side also as a solder in version.

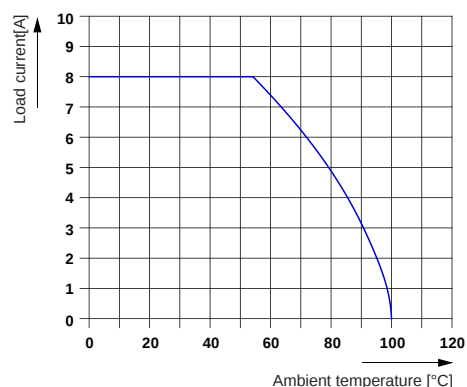
The sleeve or mounting contact inserts are snapped into the correct frames and are then simple to assemble and mount. The modules are easy to unsnap with a screwdriver.

All contact inserts can be equipped with coding profiles. This rules out the possibility of mixing up several plug connectors.

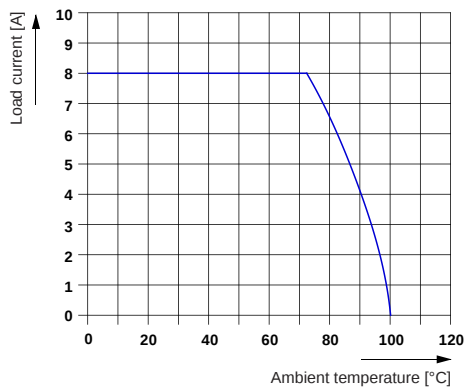
The modules can be individually labeled using the corresponding marker cards SK...



Derating curve VC-TFS 2 / VC-AML 2 / VC-AMS 2



Derating curve VC-TFS HC 8 / VC-AML 8 / VC-AMS 8



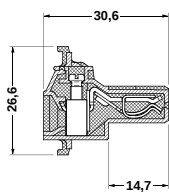
Derating curve VC-TFS HC 6 / VC-AML 6 / VC-AMS 6

# VARIOCON

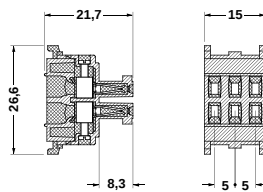
## Sleeve Contact Insert with Screw Terminal Blocks



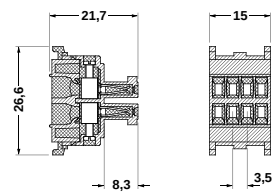
| Description                                                                                                           | Number of positions                     | Type                             | Order No.                                                   | Pcs./Pkt.                |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|-------------------------------------------------------------|--------------------------|
| <b>Contact insert</b> , for sleeve frames                                                                             | 2<br>6<br>8                             | VC-TFS 2<br>VC-TFS 6<br>VC-TFS 8 | <b>18 52 84 6</b><br><b>18 53 47 6</b><br><b>18 52 82 0</b> | 10                       |
| <b>Accessories</b>                                                                                                    |                                         |                                  |                                                             |                          |
| <b>Coding section</b> , for VC-...2, is inserted into the groove on the connector and header, red insulating material |                                         | CP-HCC 4                         | <b>16 00 02 7</b>                                           | 100                      |
| <b>Coding section</b> , for VC-...6/8, is inserted into the groove on the header, red insulating material             |                                         | CP-MSTB                          | <b>17 34 63 4</b>                                           | 100                      |
| <b>Technical data</b>                                                                                                 |                                         |                                  |                                                             |                          |
| <b>Design</b>                                                                                                         |                                         | VC-TFS 2                         | VC-TFS 6                                                    | VC-TFS 8                 |
| <b>Technical data in accordance with IEC/ DIN VDE</b>                                                                 |                                         |                                  |                                                             |                          |
| Rated current                                                                                                         | [A]                                     | 20                               | 8                                                           | 8                        |
| Rated voltage                                                                                                         | [V]                                     | 400                              | 250                                                         | 160                      |
| Surge voltage category / contamination class                                                                          |                                         | III / 3                          | III / 3                                                     | III / 3                  |
| Rated surge voltage / insulation material group                                                                       | [kV] / –                                | 6 / I                            | 4 / I                                                       | 2.5 / I                  |
| <b>Connection capacity</b>                                                                                            |                                         |                                  |                                                             |                          |
| Solid / Stranded                                                                                                      | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.2 - 4.0 / 0.2 - 1.5            | 0.14 - 1.5 / 0.14 - 1.5                                     | 0.14 - 1.5 / 0.14 - 1.5  |
|                                                                                                                       | AWG / AWG                               | 24 - 12 / 24 - 16                | 28 - 16 / 28 - 16                                           | 28 - 16 / 28 - 16        |
| <b>Multiple connection (2 conductors with same cross section)</b>                                                     |                                         |                                  |                                                             |                          |
| Solid / Stranded                                                                                                      | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.2 - 2.5 / 0.2 - 1.5            | 0.14 - 0.5 / 0.14 - 0.75                                    | 0.14 - 0.5 / 0.14 - 0.75 |
|                                                                                                                       | AWG / AWG                               | 24 - 14 / 24 - 16                | 28 - 20 / 28 - 18                                           | 28 - 20 / 28 - 18        |
| Stranded with ferrule without plastic sleeve                                                                          | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.25 - 1.5                       | 0.25 - 0.34                                                 | 0.25 - 0.34              |
|                                                                                                                       | AWG / AWG                               | 24 - 16                          | 24 - 20                                                     | 24 - 20                  |
| Stranded with TWIN ferrule with plastic sleeve                                                                        | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.5 - 2.5                        | 0.5                                                         | 0.5                      |
|                                                                                                                       | AWG / AWG                               | 20 - 14                          | 20                                                          | 20                       |
| <b>Insulating material</b>                                                                                            |                                         | PA                               | PA                                                          | PA                       |
| Inflammability class in acc. with UL 94                                                                               |                                         | V0                               | V0                                                          | V0                       |
| <b>Approval data (UL and CUL)</b>                                                                                     |                                         |                                  |                                                             |                          |
| Nom. voltage / nom. current / conduc. cross sec.                                                                      | UL: [V] / [A] / AWG                     | 600 / 20 / 30-10                 | 300 / 8 / 30-14                                             | 300 / 8 / 30-14          |
|                                                                                                                       | CUL: [V] / [A] / AWG                    | 600 / 20 / 30-10                 | 300 / 8 / 30-14                                             | 300 / 8 / 30-14          |
| <b>Torque</b>                                                                                                         | [Nm]                                    | 0.5 - 0.6                        | 0.22 - 0.25                                                 | 0.22 - 0.25              |
| <b>Approvals</b>                                                                                                      |                                         |                                  |                                                             |                          |



VC-TFS 2



VC-TFS 6



VC-TFS 8

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## Mounting Contact Insert with Screw Terminal Blocks



| Description                                                                                                           | Number of positions | Type     | Order No.  | Pcs./Pkt. |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|----------|------------|-----------|
| <b>Contact insert</b> , for panel mounting frames                                                                     | 2                   | VC-AMS 2 | 18 53 52 8 | 10        |
|                                                                                                                       | 6                   | VC-AMS 6 | 18 54 01 9 |           |
|                                                                                                                       | 8                   | VC-AMS 8 | 18 54 02 2 |           |
| <b>Accessories</b>                                                                                                    |                     |          |            |           |
| <b>Coding section</b> , for VC-...2, is inserted into the groove on the connector and header, red insulating material |                     | CP-HCC 4 | 16 00 02 7 | 100       |
| <b>Coding section</b> , for VC-...6/8, is inserted into the groove on the header, red insulating material             |                     | CP-MSTB  | 17 34 63 4 | 100       |

### Technical data

#### Design

#### Technical data in accordance with IEC/ DIN VDE

|                                                 |          | VC-AMS 2 | VC-AMS 6 | VC-AMS 8 |
|-------------------------------------------------|----------|----------|----------|----------|
| Rated current                                   | [A]      | 20       | 8        | 8        |
| Rated voltage                                   | [V]      | 400      | 250      | 160      |
| Surge voltage category / contamination class    |          | III / 3  | III / 3  | III / 3  |
| Rated surge voltage / insulation material group | [kV] / - | 6 / I    | 4 / I    | 2.5 / I  |

#### Connection capacity

|                  |                                         |                       |                         |                         |
|------------------|-----------------------------------------|-----------------------|-------------------------|-------------------------|
| Solid / Stranded | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.2 - 4.0 / 0.2 - 1.5 | 0.14 - 1.5 / 0.14 - 1.5 | 0.14 - 1.5 / 0.14 - 1.5 |
|                  | AWG / AWG                               | 24 - 12 / 24 - 16     | 28 - 16 / 28 - 16       | 28 - 16 / 28 - 16       |

#### Multiple connection (2 conductors with same cross section)

|                                                |                                         |                       |                          |                          |
|------------------------------------------------|-----------------------------------------|-----------------------|--------------------------|--------------------------|
| Solid / Stranded                               | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.2 - 2.5 / 0.2 - 1.5 | 0.14 - 0.5 / 0.14 - 0.75 | 0.14 - 0.5 / 0.14 - 0.75 |
|                                                | AWG / AWG                               | 24 - 14 / 24 - 16     | 28 - 20 / 28 - 18        | 28 - 20 / 28 - 18        |
| Stranded with ferrule without plastic sleeve   | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.25 - 1.5            | 0.25 - 0.34              | 0.25 - 0.34              |
|                                                | AWG / AWG                               | 24 - 16               | 24 - 20                  | 24 - 20                  |
| Stranded with TWIN ferrule with plastic sleeve | [mm <sup>2</sup> ] / [mm <sup>2</sup> ] | 0.5 - 2.5             | 0.5                      | 0.5                      |
|                                                | AWG / AWG                               | 20 - 14               | 20                       | 20                       |

#### Insulating material

Inflammability class in acc. with UL 94

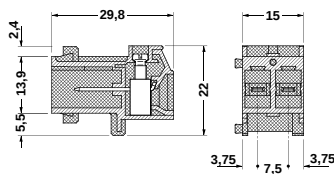
#### Approval data (UL and CUL)

|                                                  |                      |                  |                 |                 |
|--------------------------------------------------|----------------------|------------------|-----------------|-----------------|
| Nom. voltage / nom. current / conduc. cross sec. | UL: [V] / [A] / AWG  | 600 / 20 / 30-10 | 300 / 8 / 30-14 | 300 / 8 / 30-14 |
|                                                  | CUL: [V] / [A] / AWG | 600 / 20 / 30-10 | 300 / 8 / 30-14 | 300 / 8 / 30-14 |

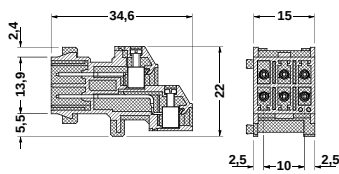
#### Torque

|  |      |           |             |             |
|--|------|-----------|-------------|-------------|
|  | [Nm] | 0.5 - 0.6 | 0.22 - 0.25 | 0.22 - 0.25 |
|--|------|-----------|-------------|-------------|

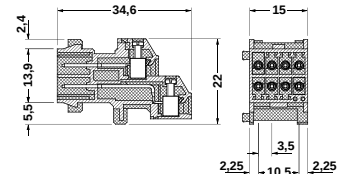
#### Approvals



VC-AMS 2



VC-AMS 6



VC-AMS 8

# VARIOCON

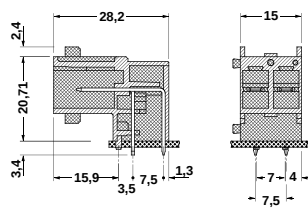
## Mounting Contact Insert with 90° Angled Solder-In Pins



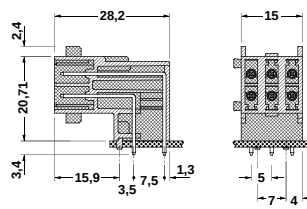
| Description                                                                                                           | Number of positions | Type     | Order No.  | Pcs./Pkt. |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|----------|------------|-----------|
| <b>Contact insert</b> , for mounting panel frames                                                                     | 2                   | VC-AML 2 | 18 52 85 9 | 10        |
|                                                                                                                       | 6                   | VC-AML 6 | 18 53 53 1 |           |
|                                                                                                                       | 8                   | VC-AML 8 | 18 52 83 3 |           |
| <b>Accessories</b>                                                                                                    |                     |          |            |           |
| <b>Coding section</b> , for VC-...2, is inserted into the groove on the connector and header, red insulating material |                     | CP-HCC 4 | 16 00 02 7 | 100       |
| <b>Coding section</b> , for VC-...6/8, is inserted into the groove on the header, red insulating material             |                     | CP-MSTB  | 17 34 63 4 | 100       |

### Technical data

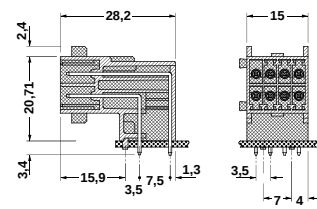
| Design                                                |                      | VC-AML 2     | VC-AML 6    | VC-AML 8    |
|-------------------------------------------------------|----------------------|--------------|-------------|-------------|
| Dimensions solder-in pins                             | [mm] x [mm]          | 2 x 0.8      | 0.8 x 0.8   | 0.8 x 0.8   |
| Hole diameter                                         | [mm]                 | 1.4          | 1.4         | 1.2         |
| <b>Technical data in accordance with IEC/ DIN VDE</b> |                      |              |             |             |
| Rated current                                         | [A]                  | 20           | 8           | 8           |
| Rated voltage                                         | [V]                  | 400          | 250         | 160         |
| Surge voltage category / contamination class          |                      | III / 3      | III / 3     | III / 3     |
| Rated surge voltage / insulation material group       | [kV] / -             | 6 / I        | 4 / I       | 2.5 / I     |
| <b>Insulating material</b>                            |                      | PA           | PA          | PA          |
| Inflammability class in acc. with UL 94               |                      | V0           | V0          | V0          |
| <b>Approval data (UL and CUL)</b>                     |                      |              |             |             |
| Nom. voltage / nom. current / conduc. cross sec.      | UL: [V] / [A] / AWG  | 600 / 20 / - | 300 / 8 / - | 300 / 8 / - |
|                                                       | CUL: [V] / [A] / AWG | 600 / 20 / - | 300 / 8 / - | 300 / 8 / - |
| <b>Approvals</b>                                      |                      |              |             |             |



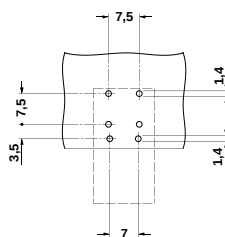
VC-AML 2



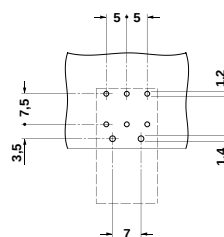
VC-AML 6



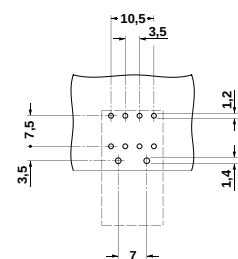
VC-AML 8



Drilling diagram VC-AML 2



Drilling diagram VC-AML 6



Drilling diagram VC-AML 8

# VARIOCON

## Mounting Contact Insert with Straight Solder-In Pins



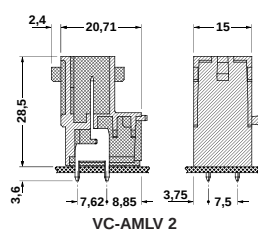
| Description                                                                                                           | Number of positions | Type      | Order No.  | Pcs./Pkt. |
|-----------------------------------------------------------------------------------------------------------------------|---------------------|-----------|------------|-----------|
| <b>Contact insert</b> , for panel mounting frames                                                                     | 2                   | VC-AMLV 2 | 18 84 97 9 | 10        |
|                                                                                                                       | 6                   | VC-AMLV 6 | 18 84 87 2 |           |
|                                                                                                                       | 8                   | VC-AMLV 8 | 18 84 88 5 |           |
| <b>Accessories</b>                                                                                                    |                     |           |            |           |
| <b>Coding section</b> , for VC-...2, is inserted into the groove on the connector and header, red insulating material |                     | CP-HCC 4  | 16 00 02 7 | 100       |
| <b>Coding section</b> , for VC-...6/8, is inserted into the groove on the header, red insulating material             |                     | CP-MSTB   | 17 34 63 4 | 100       |

### Technical data

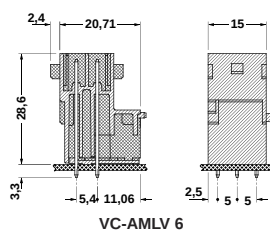
| Design                                                     |                      | VC-AMLV 2    | VC-AMLV 6    | VC-AMLV 8    |
|------------------------------------------------------------|----------------------|--------------|--------------|--------------|
| Dimensions solder-in pins                                  | [mm] x [mm]          | 2 x 0.8      | 0.8 x 0.8    | 0.8 x 0.8    |
| Hole diameter                                              | [mm]                 | 1.4          | 1.4          | 1.2          |
| <b>Technical data in accordance with IEC/ DIN VDE</b>      |                      |              |              |              |
| Rated current                                              | [A]                  | 20           | 8            | 8            |
| Rated voltage                                              | [V]                  | 400          | 250          | 160          |
| Surge voltage category / contamination class <sup>1)</sup> |                      | III / 3      | III / 3      | III / 3      |
| Rated surge voltage / insulation material group            | [kV] / -             | 6 / I        | 4 / I        | 2.5 / I      |
| <b>Insulating material</b>                                 |                      | PA           | PA           | PA           |
| Inflammability class in acc. with UL 94                    |                      | V0           | V0           | V0           |
| <b>Approval data (UL and CUL)</b>                          |                      |              |              |              |
| Nom. voltage / nom. current / conduc. cross sec.           | UL: [V] / [A] / AWG  | 600 / 20 / - | 300 / 8 / -  | 300 / 8 / -  |
|                                                            | CUL: [V] / [A] / AWG | 600 / 20 / - | 300 / 8 / -  | 300 / 8 / -  |
|                                                            |                      | <b>UL/UL</b> | <b>UL/UL</b> | <b>UL/UL</b> |

### Approvals

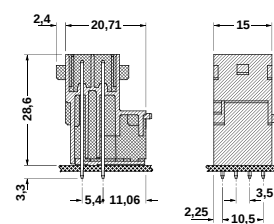
<sup>1)</sup> In the 2 and 6-pos. constellation, as well as in the 2 and 8-pos. versions, there is a reduction in the air and creepage distances. The contamination class is thus reduced to 2 and the surge voltage category to II.



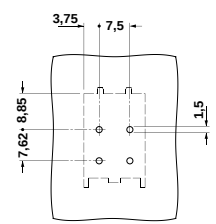
VC-AMLV 2



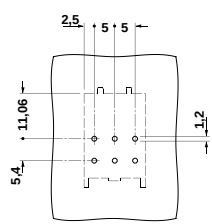
VC-AMLV 6



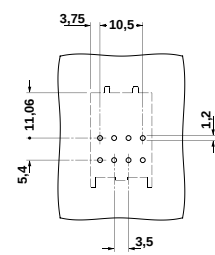
VC-AMLV 8



Drilling diagram VC-AMLV 2



Drilling diagram VC-AMLV 6



Drilling diagram VC-AMLV 8



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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