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Contact insert with integrated sleeve frame, type VC 3, 4-pos. + PE, 690 V / 70 A

Your advantages

- Compact design
- ☑ Universal connection
- ☑ Proven COMBICON technology
- ☑ Can be keyed to prevent incorrect connection



Key Commercial Data

| Packing unit | 5 pc |
|--------------|-----------------|
| GTIN | 4 017918 969127 |
| GTIN | 4017918969127 |

Technical data

General

| Note | Connectors may only be connected/disconnected when under no load. |
|--|---|
| Connection technology | Screw connection |
| Connection method | Screw connection |
| Tightening torque | 1.2 Nm 1.8 Nm |
| Degree of pollution | 3 |
| Number of positions | 4+PE |
| Insertion/withdrawal cycles | ≥ 50 |
| Size | VC3 |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 6 |
| 2 conductors with same cross section, solid min. | 0.5 mm ² |
| 2 conductors with same cross section, solid max. | 6 mm² |



Technical data

General

| 2 conductors with same cross section, stranded min. | 0.5 mm² |
|---|----------------|
| 2 conductors with same cross section, stranded max. | 4 mm² |
| Conductor cross section | 0.5 mm² 16 mm² |
| Connection cross section AWG | 20 6 |
| Stripping length of the individual wire | 14 mm |

Ambient conditions

| Ambient temperature (operation) | -40 °C 100 °C |
|---------------------------------|---------------|
|---------------------------------|---------------|

Material data

| Housing material | PA |
|--------------------------|--------------------|
| Contact material | CuZn |
| Contact surface material | hard-silver plated |
| Contact carrier material | PA |

Electrical characteristics

| Rated voltage (III/3) | 690 V |
|-----------------------|-------|
| Rated surge voltage | 6 kV |
| | 6 kV |
| Rated current | 70 A |
| | 70 A |

Standards and Regulations

| Connection in acc. with standard | CUL |
|--|--|
| Flammability rating according to UL 94 | V0 |
| Safety note | WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. |
| | WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible. |
| | WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. |
| | The products are suitable for applications in plant, controller, and electrical device engineering. |
| | When operating the connectors in outdoor applications, they must be separately protected against environmental influences. |
| | Assembled products may not be manipulated or improperly opened. |
| | Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products). |
| | When using the product in direct connection with third-party manufacturers, the user is responsible. |



Technical data

Standards and Regulations

| For operating voltages > 50 V AC, conductive connector housings must be grounded |
|--|
| Ensure that the protective or functional ground has been properly connected. |
| VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector |
| Observe the corresponding technical data. You will find information: On the product On the packing label o In the supplied documentation Online at phoenixcontact.com/products under the product |
| Only use tools recommended by Phoenix Contact |
| The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. |
| Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products |
| Operate the connector only when it is fully plugged in. |
| Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. |
| Observe the minimum bending radius of the cable. Lay the cable without twisting it. |

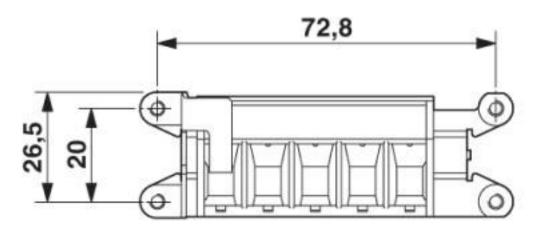
Environmental Product Compliance

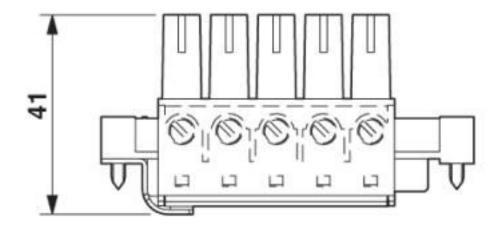
| REACh SVHC | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings



Dimensional drawing





Classifications

eCl@ss

| eCl@ss 10.0.1 | 27440205 |
|---------------|----------|
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27261200 |
| eCl@ss 6.0 | 27261200 |
| eCl@ss 7.0 | 27440205 |
| eCl@ss 8.0 | 27440205 |
| eCl@ss 9.0 | 27440205 |



Classifications

ETIM

| ETIM 2.0 | EC000438 |
|----------|----------|
| ETIM 3.0 | EC000438 |
| ETIM 4.0 | EC000438 |
| ETIM 5.0 | EC000438 |
| ETIM 6.0 | EC000438 |
| ETIM 7.0 | EC000438 |

UNSPSC

| UNSPSC 6.01 | 30211923 |
|---------------|----------|
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121522 |
| UNSPSC 18.0 | 39121522 |
| UNSPSC 19.0 | 39121522 |
| UNSPSC 20.0 | 39121522 |
| UNSPSC 21.0 | 39121522 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

| UL Recognized | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.l | ntm FILE E 118976 |
|--------------------|---|-------------------|
| | | |
| Nominal voltage UN | 600 V | |
| Nominal current IN | 55 A | |
| mm²/AWG/kcmil | 20-6 | |



Approvals

| cUL Recognized | . 7/ | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 118976 | | FILE E 118976 |
|--------------------|-------------|---|-------|---------------|
| | | | | |
| Nominal voltage UN | | | 600 V | |
| Nominal current IN | | | 45 A | |
| mm²/AWG/kcmil | | | 20-6 | |

| EA | c EAL | B.01687 |
|----|-------|---------|
| | | |

cULus Recognized cultus

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