

# ISPC 5/ 4-STGCL-7,62 BD:D-R- - PCB connector



1706995

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

PCB connector, nominal cross section: 6 mm<sup>2</sup>, color: green, nominal current: 32 A, rated voltage (III/2): 1000 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: ISPC 5/..-STGCL, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, locking: Clip locking, mounting method: Click & Lock latching window, type of packaging: packed in cardboard

## Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- Standard header – also suitable for connectors with automatically locking Click and Lock system
- 600 V UL approval in the smallest of dimensions

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1706995                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Product key                          | AADFCA                         |
| GTIN                                 | 4046356893176                  |
| Weight per piece (including packing) | 18.9 g                         |
| Weight per piece (excluding packing) | 18.8 g                         |
| Country of origin                    | IN                             |

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## Technical data

### Product properties

|                       |                              |
|-----------------------|------------------------------|
| Product type          | PCB connector                |
| Product family        | ISPC 5/...-STGCL             |
| Product line          | COMBICON Connectors L        |
| Number of positions   | 4                            |
| Pitch                 | 7.62 mm                      |
| Number of connections | 4                            |
| Number of rows        | 1                            |
| Number of potentials  | 4                            |
| Mounting type         | Click & Lock latching window |

### Electrical properties

#### Properties

|                             |         |
|-----------------------------|---------|
| Nominal current $I_N$       | 32 A    |
| Nominal voltage $U_N$       | 1000 V  |
| Contact resistance          | 0.55 mΩ |
| Rated voltage (III/3)       | 1000 V  |
| Rated surge voltage (III/3) | 8 kV    |
| Rated voltage (III/2)       | 1000 V  |
| Rated surge voltage (III/2) | 8 kV    |
| Rated voltage (II/2)        | 1000 V  |
| Rated surge voltage (II/2)  | 6 kV    |

### Connection data

#### Connection technology

|                         |                   |
|-------------------------|-------------------|
| Type                    | Inverted          |
| Connector system        | COMBICON PC 5     |
| Nominal cross section   | 6 mm <sup>2</sup> |
| Contact connection type | Pin               |

#### Interlock

|               |                              |
|---------------|------------------------------|
| Locking type  | Clip locking                 |
| Mounting type | Click & Lock latching window |

#### Conductor connection

|   |  |
|---|--|
| Connection method   | Push-in spring connection                  |
| Conductor/PCB connection direction                                      | 0 °  |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Conductor cross-section AWG   | 24 ... 8                                   |
| Conductor cross-section, flexible, with ferrule, without plastic sleeve | 0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup> |

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|   |  |
|---|--|
| 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 | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Cylindrical gauge a x b / diameter  | 4.3 mm x 4.0 mm / 4.0 mm                     |
| Stripping length  | 15 mm  |

## Specifications for ferrules without insulating collar

|  |   |
|--|---|
| recommended crimping tool                                    | 1212034 CRIMPFOX 6  |
|  | 1213144 CRIMPFOX CENTRUS 6S                                   |
|  | 1213146 CRIMPFOX CENTRUS 6H                                   |
| ferrules without insulating collar, according to DIN 46228-1 | Cross section: 0.5 mm <sup>2</sup> ; Length: 10 mm ... 15 mm  |
|  | Cross section: 0.75 mm <sup>2</sup> ; Length: 10 mm ... 15 mm |
|  | Cross section: 1 mm <sup>2</sup> ; Length: 10 mm ... 15 mm    |
|  | Cross section: 1.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm  |
|  | Cross section: 2.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm  |
|  | Cross section: 4 mm <sup>2</sup> ; Length: 12 mm ... 15 mm    |
|  | Cross section: 6 mm <sup>2</sup> ; Length: 12 mm ... 15 mm    |

## Specifications for ferrules with insulating collar

|   |   |
|---|---|
| recommended crimping tool                                 | 1212034 CRIMPFOX 6  |
|   | 1213144 CRIMPFOX CENTRUS 6S                                   |
|   | 1213146 CRIMPFOX CENTRUS 6H                                   |
| ferrules with insulating collar, according to DIN 46228-4 | Cross section: 0.5 mm <sup>2</sup> ; Length: 10 mm ... 15 mm  |
|   | Cross section: 0.75 mm <sup>2</sup> ; Length: 12 mm ... 15 mm |
|   | Cross section: 1 mm <sup>2</sup> ; Length: 12 mm ... 15 mm    |
|   | Cross section: 1.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm  |
|   | Cross section: 2.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm  |
|   | Cross section: 4 mm <sup>2</sup> ; Length: 12 mm ... 15 mm    |

## 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   |
| Metal surface terminal point (top layer) | Tin (4 µm - 8 µm Sn)   |
| Metal surface contact area (top layer)   | Tin (4 µm - 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          |

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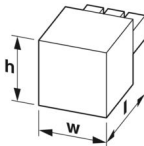


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|   |        |
|---|--------|
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Pitch               | 7.62 mm  |
| Width [w]           | 33.28 mm   |
| Height [h]          | 19.8 mm  |
| Length [l]          | 40.5 mm  |

## 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

### Conductor connection

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

### Test for conductor damage and slackening

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

### Repeated connection and disconnection

|               |                     |
|---------------|---------------------|
| 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 | 10 mm <sup>2</sup> / solid / > 90 N     |
|   | 6 mm <sup>2</sup> / flexible / > 80 N   |
|   | 0.2 mm <sup>2</sup> / solid / > 10 N    |
|   | 0.2 mm <sup>2</sup> / flexible / > 10 N |

### Insertion and withdrawal forces

|                                     |                        |
|-------------------------------------|------------------------|
| Specification                       | IEC 60512-13-2:2006-02 |
| Result                              | Test passed            |
| No. of cycles                       | 25                     |
| Insertion strength per pos. approx. | 7.5 N                  |

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|                                    |                                    |
|------------------------------------|------------------------------------|
| Withdraw strength per pos. approx. | 5 N                                |
| Resistance of inscriptions         |                                    |
| Specification                      | IEC 60068-2-70:1995-12             |
| Result                             | Test passed                        |
| Polarization and coding            |                                    |
| Specification                      | IEC 60512-7:1993-08 (Polarization) |
| Result                             | Test passed                        |
| Visual inspection                  |                                    |
| Specification                      | IEC 60512-1-1:2002-02              |
| Result                             | Test passed                        |
| Dimension check                    |                                    |
| Specification                      | IEC 60512-1-2:2002-02              |
| Result                             | Test passed                        |

## Environmental and real-life conditions

### Durability test

|  |                     |
|--|---------------------|
| Specification                          | IEC 60512-5:1992-08 |
| Impulse withstand voltage at sea level | 9.8 kV              |
| Contact resistance $R_1$               | 0.55 m $\Omega$     |
| Contact resistance $R_2$               | 0.6 m $\Omega$      |
| Insertion/withdrawal cycles            | 25                  |

### Climatic test

|                                   |   |
|-----------------------------------|---|
| Specification                     | ISO 6988:1985-02  |
| Corrosive stress                  | 0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle |
| Thermal stress                    | 100 °C/168 h  |
| Power-frequency withstand voltage | 4.26 kV   |

### Vibration test

|                        |                             |
|------------------------|-----------------------------|
| Specification          | IEC 60068-2-6:1995-03       |
| 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           |

### Ambient conditions

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

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## Electrical tests

### Thermal test | Test group C

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

### Insulation resistance

|  |                       |
|--|-----------------------|
| Specification                                | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | $10^{12} \Omega$      |

### Temperature cycles

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

### 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)                       | 1000 V              |
| Rated surge voltage (III/3)                            | 8 kV                |
| minimum clearance value - non-homogenous field (III/3) | 8 mm                |
| minimum creepage distance (III/3)                      | 12.5 mm             |
| Rated insulation voltage (III/2)                       | 1000 V              |
| Rated surge voltage (III/2)                            | 8 kV                |
| minimum clearance value - non-homogenous field (III/2) | 8 mm                |
| minimum creepage distance (III/2)                      | 8 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

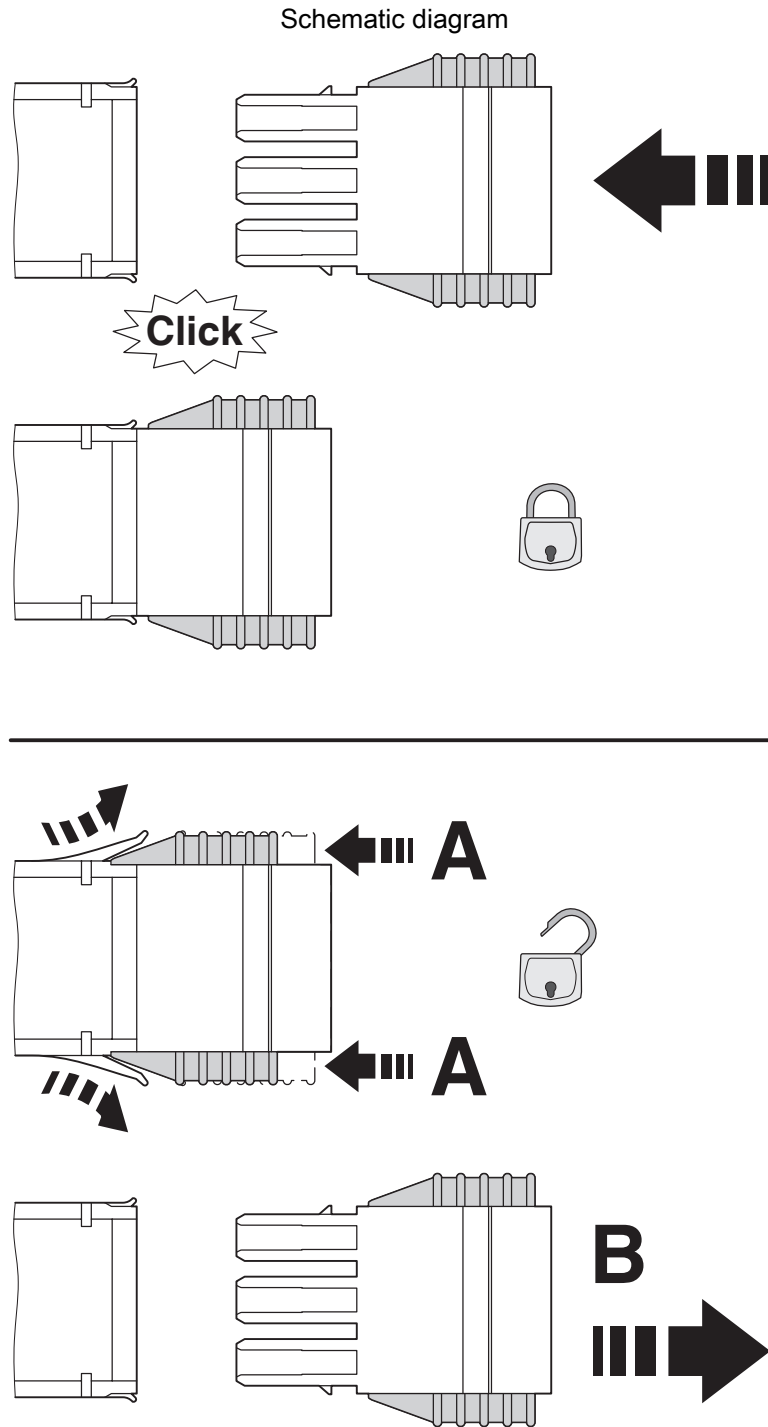
|                   |                     |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

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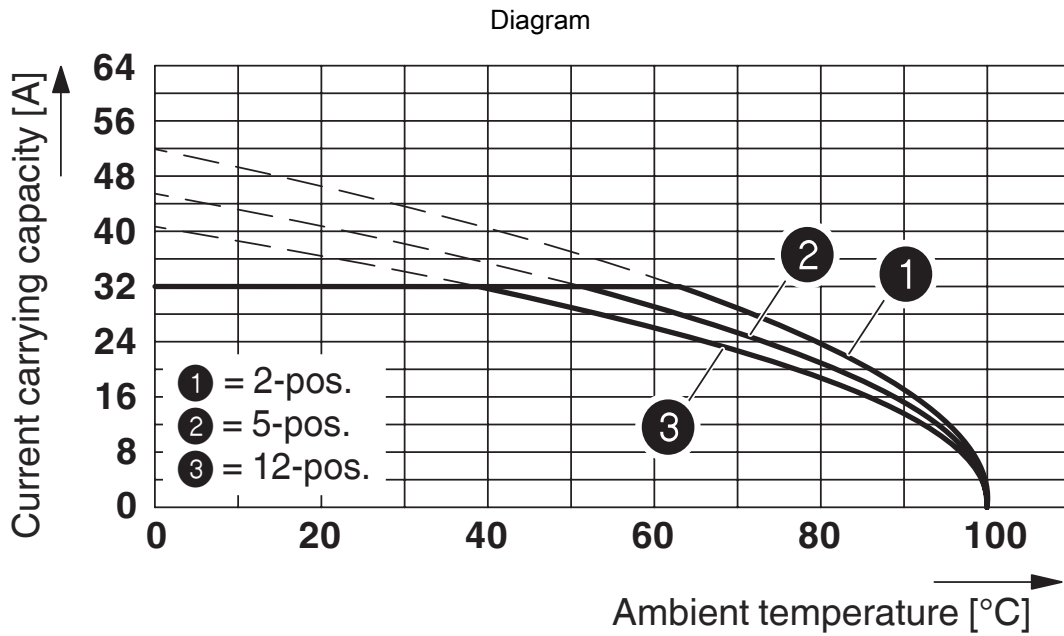
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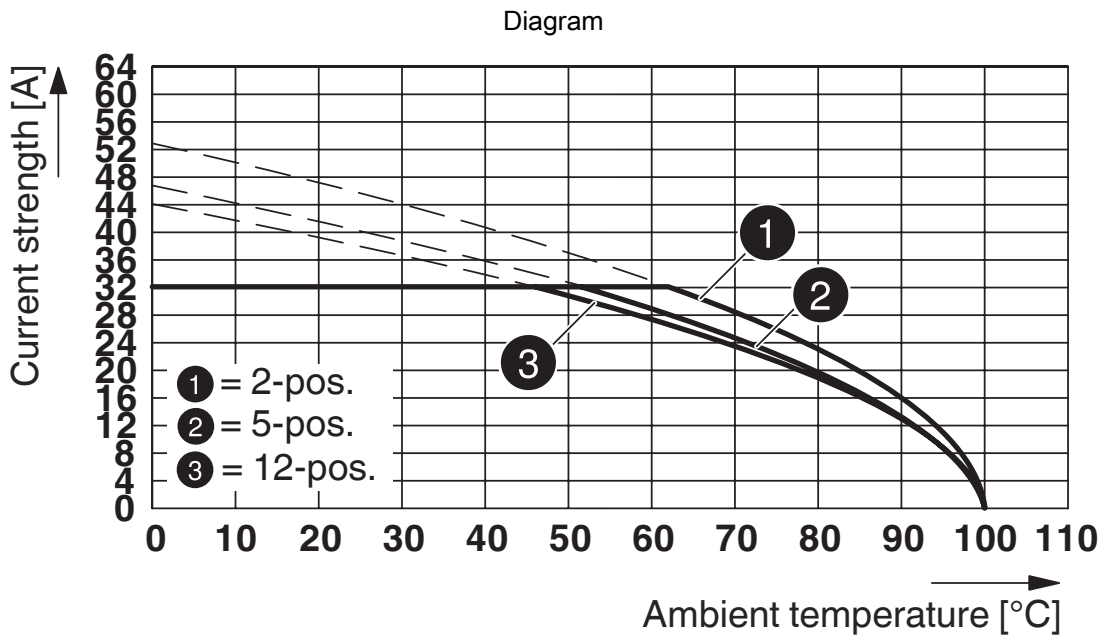
## Drawings



Click and Lock system method of operation



Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62



Type: SPC 5/...-STCL-7,62 with ISPC 5/...-STGCL-7,62

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Type: PC 5/...-STCL1-7,62 with ISPC 5/...-STGCL-7,62

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1706995>

|  <b>cULus Recognized</b><br>Approval ID: E60425-19920722 |  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|--|-----------------------|-----------------------|-------------------|-----------------------------|
| B   |  | 600 V                 | 35 A                  | 24 - 8            | -                           |
| C   |  | 600 V                 | 35 A                  | 24 - 8            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460202 |
| ECLASS-15.0 | 27460202 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002638 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.033 kg CO2e |
|---------|---------------|

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