

Contact insert - HC-K 4/8-ESTS - 1679333


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HEAVYCON male insert, K4/8 series, for 4 power and 8 control contacts, screw connection without wire protection



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 017918 163570 |
| GTIN | 4017918163570 |

Technical data

General

| | |
|-----------------------------|--|
| Note | For housing HC-B24 |
| Connection method | Screw connection (power contacts) Screw connection (control contacts) |
| Tightening torque | 2 Nm (Power contact, 2.5 mm ²) 3 Nm (Power contact, 4 ... 16 mm ²) 0.5 Nm (control contacts) 1.2 Nm (Power contact, 1.5 mm ²) |
| Screwdriver blade | 0.8 x 4.5 mm (power contacts) 0.5 x 3.5 mm (control contacts) |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Number of positions | 4+8+2PE |
| No. of power contacts | 4 |
| No. of control contacts | 8 |
| Insertion/withdrawal cycles | ≥ 500 |
| Size | B24 |
| Contact numbering | 1 - 4 |

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Technical data

General

| | |
|---|--|
| Conductor cross section | 1.5 mm ² ... 16 mm ² (power contacts) |
| | 0.5 mm ² ... 2.5 mm ² (control contacts) |
| Connection cross section AWG | 16 ... 6 (power contacts) |
| | 20 ... 14 (control contacts) |
| Stripping length of the individual wire | 14 mm (Power contact) |
| | 7 mm (control contact) |
| Assembly instructions | Plug-in connections may only be operated only when there is no load/voltage. |
| Connection | Use wire end protection (screw connections do not have wire protection) |

Ambient conditions

| | |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

Material data

| | |
|--|---|
| Contact material | Copper alloy |
| Contact surface material | Ag (alternatively Au) |
| Material of contact surface, power contact | Ag |
| Material of contact surface, control contact | Ag |
| Contact carrier material | PA |
| Standards/regulations | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

Electrical characteristics

| | |
|-----------------------|--------------------------|
| Rated voltage (III/3) | 400 V (power contacts) |
| | 400 V (control contacts) |
| Rated surge voltage | 6 kV (power contacts) |
| | 6 kV (control contacts) |
| Rated current | 80 A (power contacts) |
| | 16 A (control contacts) |

Standards and Regulations

| | |
|--|-----|
| Connection in acc. with standard | CSA |
| Flammability rating according to UL 94 | V0 |

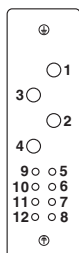
Environmental Product Compliance

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

Drawings

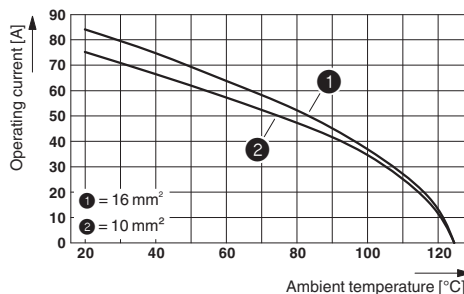
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Schematic diagram



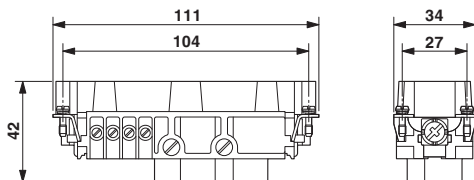
Connector pin assignment, connection side

Diagram

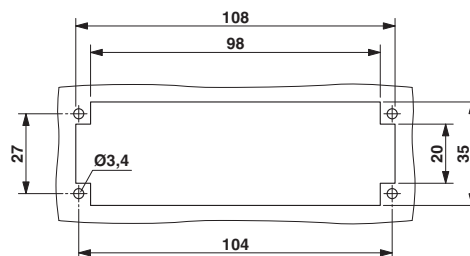


Derating diagram

Dimensional drawing



Dimensional drawing



Male insert

Mounting cutout when used without housing

Approvals

Approvals

Approvals

UL Recognized

Ex Approvals

Approval details

| | | | |
|--------------------|-------|---|---------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E118976 |
| Nominal voltage UN | 600 V | | |
| Nominal current IN | 16 A | | |
| mm²/AWG/kcmil | 14 | | |

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