



General ordering data

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| Order No. | 1650580000 |
| Part designation | HDC HD 7 FC |
| Version | HDC insert, Socket, 250 V, 10 A, Poles: 7 + PE, Crimp connection, BG: 1 |
| EAN | 4008190299255 |
| Qty. | 1 pc(s). |

Product notes

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| Note, ordering data | Reduce the voltage to 42 V when using metal housings |
| Note, technical data | HD-7 insert with protective earth connection only via the plug-socket contact. |
| Product description | 250 V for plastic housings 42 V for metal housings |
| Function | For turned contacts |
| Note, accessories | For additional accessories, refer to Accessories chapter. |

General data

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|---------------------------|---|
| Colour | beige |
| Insulating material group | IIIa |
| Insulation material | PC glass-fibre reinforced (UL-listed and railway-certified) |
| Insulation resistance | $10^{10} \Omega$ |
| No. of poles, total | 7 + PE |
| Plugging cycles, gold | ≥ 500 |
| Plugging cycles, silver | ≥ 500 |
| Pollution severity | 3 |
| Temperature, max. | 125 °C |
| Temperature, min. | -40 °C |
| UL 94 flammability class | V-0 |
| Size | 1 |
| Series | HD |
| Type | Socket |
| Type designation | HD 7 |

General data**Connection data PE**

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| Rated cross-section | 2.5 mm ² |
| Fixing screw | M 4 |
| Min. tightening torque | 1.2 Nm |
| Blade size, crosshead | size PH1 |
| Max. tightening torque | 1.5 Nm |
| Blade size, slotted | SD 0.8 x 4.0 |
| Stripping length | 10 mm |
| Max. connection cross-section, solid | 0.5 mm ² |
| Min. connection cross-section, solid | 2.5 mm ² |
| Min. connection cross-section, stranded | 0.5 mm ² |
| Connection type PE | Screw connection |
| Max. connection cross-section, stranded | 2.5 mm ² |
| Min. connection cross-section "f" with wire end ferrule | 0.5 mm ² |
| Max. connection cross-section "f" with wire end ferrule | 2.5 mm ² |
| AWG, min. | AWG 20 |
| AWG, max. | AWG 14 |

Rating data

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|--------------------------------------|-------------|
| Rated voltage (DIN EN 61984) | 250 V |
| Rated current (DIN EN 61984) | 10 A |
| Rated voltage according to UL/CSA | 600 V AC/DC |
| Rated impulse voltage (DIN EN 61984) | 4 kV |

Version

| | |
|--------------------------------|----------------------|
| Type of connection | Crimp connection |
| Stripping length | 8 mm |
| Connection cross-section, min. | 0.14 mm ² |
| Connection cross-section, max. | 2.5 mm ² |
| AWG, min. | AWG 26 |
| AWG, max. | AWG 14 |
| Size | 1 |
| Volume resistance | ≤ 4mΩ |

Approvals

Approvals institutes

**Classifications**

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|------------|-------------|
| ETIM 2.0 | EC001121 |
| ETIM 3.0 | EC001121 |
| eClass 4.1 | 27-14-08-05 |

Classifications

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|------------|-------------|
| eClass 5.0 | 27-14-34-19 |
| eClass 5.1 | 27-14-34-19 |

Similar products

| Order No. | Part designation | Version |
|------------|------------------|--|
| 1650660000 | HDC HD 15 FC | HDC insert, Socket, 250 V, 10 A, Poles: 15 + PE, Crimp connection, BG: 2 |
| 1650650000 | HDC HD 15 MC | HDC insert, Pin, 250 V, 10 A, Poles: 15 + PE, Crimp connection, BG: 2 |
| 1650720000 | HDC HD 16 FC | HDC insert, Socket, 250 V, 10 A, Poles: 16 + PE, Crimp connection, BG: 3 |
| 1650710000 | HDC HD 16 MC | HDC insert, Pin, 250 V, 10 A, Poles: 16 + PE, Crimp connection, BG: 3 |
| 1650890000 | HDC HD 24 FC | HDC insert, Socket, 250 V, 10 A, Poles: 24 + PE, Crimp connection, BG: 4 |
| 1650870000 | HDC HD 24 MC | HDC insert, Pin, 250 V, 10 A, Poles: 24 + PE, Crimp connection, BG: 4 |
| 1650820000 | HDC HD 25 FC | HDC insert, Socket, 250 V, 10 A, Poles: 25 + PE, Crimp connection, BG: 5 |
| 1023050000 | HDC HD 25 FC "Z" | HDC-Einsatz, Buchse, 250 V, 10 A, Pole [ZGT]: 25 + PE, Crimpanschluss, BG [ZGT]: 5 |
| 1650810000 | HDC HD 25 MC | HDC insert, Pin, 250 V, 10 A, Poles: 25 + PE, Crimp connection, BG: 5 |
| 1023040000 | HDC HD 25 MC "Z" | HDC-Einsatz, Stift, 250 V, 10 A, Pole [ZGT]: 25 + PE, Crimpanschluss, BG [ZGT]: 5 |
| 1601730000 | HDC HD 40 FC | HDC insert, Socket, 250 V, 10 A, Poles: 40 + PE, Crimp connection, BG: 6 |
| 1601710000 | HDC HD 40 MC | HDC insert, Pin, 250 V, 10 A, Poles: 40 + PE, Crimp connection, BG: 6 |
| 1601740000 | HDC HD 64 FC | HDC insert, Socket, 250 V, 10 A, Poles: 64 + PE, Crimp connection, BG: 12 |
| 1601720000 | HDC HD 64 MC | HDC insert, Pin, 250 V, 10 A, Poles: 64 + PE, Crimp connection, BG: 12 |
| 1650570000 | HDC HD 7 MC | HDC insert, Pin, 250 V, 10 A, Poles: 7 + PE, Crimp connection, BG: 1 |
| 1650600000 | HDC HD 8 FC | HDC insert, Socket, 250 V, 10 A, Poles: 8, Crimp connection, BG: 1 |
| 1650590000 | HDC HD 8 MC | HDC insert, Pin, 250 V, 10 A, Poles: 8, Crimp connection, BG: 1 |