

HDC HEE 18 FC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

The HEE series features high-density contacts and is designed based on the established HE inserts.

The wire connection level is designed as a crimp contact. The established crimp connection has been used as a standard for decades. Crimp contacts are not delivered with the inserts.

Number of poles: **18**

Rated current: **16 A**

Rated voltage: **500 V**

Nominal voltage acc. to UL/CSA: **600 V AC/DC**

Crimp connection

General ordering data

| | |
|------------|---|
| Version | HDC insert, Female, 500 V, 16 A, Number of poles: 18, Crimp connection, Size: 4 |
| Order No. | 1826820000 |
| Type | HDC HEE 18 FC |
| GTIN (EAN) | 4032248330225 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Depth | 64 mm | Depth (inches) | 2.52 inch |
| Height | 36 mm | Height (inches) | 1.417 inch |
| Width | 34 mm | Width (inches) | 1.339 inch |
| Net weight | 50 g | | |

Temperatures

| | |
|-------------------|-------------------|
| Limit temperature | -40 °C ... 125 °C |
|-------------------|-------------------|

Dimensions

| | | | |
|------------------|-------|-------------------|-------|
| Height of socket | 36 mm | Total length base | 64 mm |
| Width | 34 mm | | |

General data

| | | | |
|--------------------------------------|---|-------------------------------|--------|
| BG | 4 | Colour | beige |
| Conductor cross-section | 4 mm ² | Free from halogens | true |
| Insulating material | PC glass-fibre reinforced (UL-listed and railway-certified) | Insulating material group | IIIa |
| Insulation strength | 10 ¹⁰ Ω | Low smoke acc. DIN EN 45545-2 | Yes |
| Material | Copper alloy | Number of poles | 18 |
| Plugging cycles, gold | ≥ 500 | Plugging cycles, silver | ≥ 500 |
| Pollution severity | 3 | Rated current (DIN EN 61984) | 16 A |
| Rated impulse voltage (DIN EN 61984) | 6 kV | Rated voltage (DIN EN 61984) | 500 V |
| Rated voltage according to UL/CSA | 600 V AC/DC | Series | HEE |
| Size | 4 | Type | Female |
| Type of connection | Crimp connection | UL 94 flammability rating | V-0 |
| Volume resistance | ≤2 mΩ | | |

Connection data PE

| | | | |
|---------------------------------------|-------------------|---------------------------------------|--------------|
| Blade size, crosshead | size PH 1 | Blade size, slotted (PE connection) | SD 0.8 x 4.0 |
| Connection type PE | Screw connection | Fixing screw | M 4 |
| Rated cross-section | 4 mm ² | Stripping length PE connection | 10 mm |
| Tightening torque, max. PE connection | 1.5 Nm | Tightening torque, min. PE connection | 1.2 Nm |
| Wire cross section, AWG (PE), max. | AWG 12 | Wire cross section, AWG (PE), min. | AWG 20 |

Version

| | | | |
|---|---------------------|---|---------------------|
| BG | 4 | Conductor cross-section, max. | 4 mm ² |
| Conductor cross-section, min. | 0.5 mm ² | Material | Copper alloy |
| Size | 4 | Stripping length, rated connection | 7.5 mm |
| Type of connection | Crimp connection | Volume resistance | ≤2 mΩ |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 20 |
| Wire connection cross section, finely stranded, max. | 4 mm ² | Wire connection cross section, finely stranded, min. | 0.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 4 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm ² |
| Wire cross-section, solid, max. | 4 mm ² | Wire cross-section, solid, min. | 0.5 mm ² |

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Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000438 | ETIM 7.0 | EC000438 |
| ETIM 8.0 | EC000438 | ETIM 9.0 | EC000438 |
| ECLASS 9.0 | 27-44-02-05 | ECLASS 9.1 | 27-44-02-05 |
| ECLASS 10.0 | 27-44-02-05 | ECLASS 11.0 | 27-44-02-05 |
| ECLASS 12.0 | 27-44-02-05 | ECLASS 13.0 | 27-44-02-05 |

| | |
|---------------------|---------------------------|
| Substance | Acetone |
| Chemical resistance | Resistant |
| Substance | Ammonia, watery |
| Chemical resistance | Conditionally resistant |
| Substance | Petrol |
| Chemical resistance | Resistant |
| Substance | Benzene |
| Chemical resistance | Resistant |
| Substance | Diesel oil |
| Chemical resistance | Conditionally resistant |
| Substance | Acetic acid, concentrated |
| Chemical resistance | Resistant |
| Substance | Potassium hydroxide |
| Chemical resistance | Conditionally resistant |
| Substance | Methanol |
| Chemical resistance | Conditionally resistant |
| Substance | Motor oil |
| Chemical resistance | Conditionally resistant |
| Substance | Lye, diluted |
| Chemical resistance | Resistant |
| Substance | Hydrochlorofluorocarbons |
| Chemical resistance | Conditionally resistant |
| Substance | Outdoor use |
| Chemical resistance | Conditionally resistant |

Environmental Product Compliance

| | |
|---------------------|--|
| REACH SVHC | Potassium perfluorobutane sulfonate 29420-49-3 |
| SCIP | 1609748e-c278-4c9b-b3d1-e6215d2988cd |
| Chemical resistance | de.myview.objectmodel.impl.BlockImpl@6f7e51be de.myview.objectmodel.impl.BlockImpl@2d096228 de.myview.objectmodel.impl.BlockImpl@27c6e487 de.myview.objectmodel.impl.BlockImpl@4607c37d de.myview.objectmodel.impl.BlockImpl@5be999a2 de.myview.objectmodel.impl.BlockImpl@3d97a8d5 de.myview.objectmodel.impl.BlockImpl@2d65913c de.myview.objectmodel.impl.BlockImpl@5501a3c6 de.myview.objectmodel.impl.BlockImpl@4232044d de.myview.objectmodel.impl.BlockImpl@4263ddde de.myview.objectmodel.impl.BlockImpl@438e58df de.myview.objectmodel.impl.BlockImpl@1bc9ccfb |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search UL Website

Certificate No. (cURus) E92202

Downloads

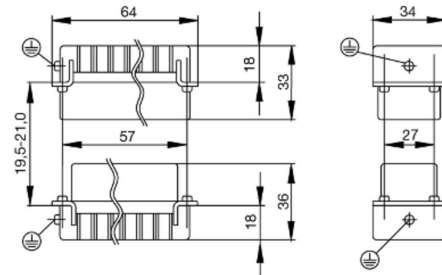
| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN FL FIELDWIRING EN |

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Drawings



HDC HEE 18 FC**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories****DSTV**

Various accessories are available for our inserts. This includes coding elements for the inserts.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | DSTV COBU5 | Version |
| Order No. | 1471500000 | Heavy-duty connectors, Accessories, Coding element |
| GTIN (EAN) | 4008190178543 | |
| Qty. | 100 pc(s). | |
| Type | DSTV COST4 | Version |
| Order No. | 1471300000 | Heavy-duty connectors, Accessories, Coding System |
| GTIN (EAN) | 4008190017354 | |
| Qty. | 100 pc(s). | |

Crosshead screwdriver Phillips

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|--------------------------|
| Type | SDK PH1 | Version |
| Order No. | 9008480000 | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056477 | |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****Crimping tools****Crimping tools for turned contacts**

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | CTX CM 1.6/2.5 | Version |
| Order No. | 9018490000 | Pressing tool, Crimping tool for contacts, 0.14mm ² , 4mm ² , W crimp |
| GTIN (EAN) | 4008190884598 | |
| Qty. | 1 pc(s). | |
| Type | CTIN CM 1.6/2.5 | Version |
| Order No. | 9205430000 | Pressing tool, Crimping tool for contacts, 0.14mm ² , 6mm ² , 4-indent |
| GTIN (EAN) | 4032248733446 | crimp |
| Qty. | 1 pc(s). | |

Crosshead screwdriver Phillips

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|--------------------------|
| Type | SDIK PH1 | Version |
| Order No. | 9008570000 | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056569 | |
| Qty. | 1 pc(s). | |

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Accessories

HE

Various accessories are available for our inserts. This includes coding elements for the inserts.



General ordering data

| | | |
|------------|----------------------------|---|
| Type | HDC HE CP | Version |
| Order No. | 1003240000 | Heavy-duty connectors, Accessories, Coding System |
| GTIN (EAN) | 4032248698233 | |
| Qty. | 100 pc(s). | |

Crimp contacts HE

Crimps provide a electrical and mechanical connection between wire and contact that is both secure and reliable. The optimal crimp connection is gas-tight and corrosion-resistant.



General ordering data

| | | |
|------------|----------------------------|--|
| Type | HDC-C-HE-BM4.0AG | Version |
| Order No. | 1201500000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190148096 | Female, Conductor cross-section, max.: 4, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM0.75-1.00AU | Version |
| Order No. | 1651480000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190400156 | Female, Conductor cross-section, max.: 1, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM4.0AU | Version |
| Order No. | 1651510000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190400187 | Female, Conductor cross-section, max.: 4, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM0.5AU | Version |
| Order No. | 1651470000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190400149 | Female, Conductor cross-section, max.: 0.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM0.75-1.00AG | Version |
| Order No. | 1201200000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190044480 | Female, Conductor cross-section, max.: 1, turned, Copper alloy |
| Qty. | 100 pc(s). | |

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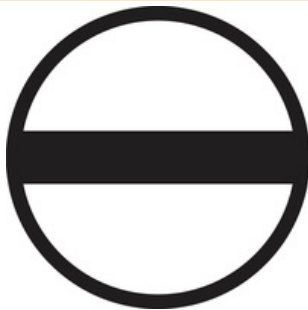
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Accessories

| | | |
|------------|----------------------------|--|
| Type | HDC-C-HE-BM1.5AU | Version |
| Order No. | 1651490000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190400163 | Female, Conductor cross-section, max.: 1.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM2.5AG | Version |
| Order No. | 1201400000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190047078 | Female, Conductor cross-section, max.: 2.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM1.5AG | Version |
| Order No. | 1201300000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190100346 | Female, Conductor cross-section, max.: 1.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM2.5AU | Version |
| Order No. | 1651500000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190400170 | Female, Conductor cross-section, max.: 2.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-BM0.5AG | Version |
| Order No. | 1201100000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, |
| GTIN (EAN) | 4008190142698 | Female, Conductor cross-section, max.: 0.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265,
ISO 2380/2, output to DIN 5264, ISO 2380/1.
ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|--------------------------|
| Type | SDS 0.6X3.5X100 | Version |
| Order No. | 9008330000 | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056286 | |
| Qty. | 1 pc(s). | |
| Type | SDS 0.8X4.0X100 | Version |
| Order No. | 9008340000 | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056293 | |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|--------------------------|
| Type | SDIS 0.6X3.5X100 | Version |
| Order No. | 9008390000 | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056354 | |
| Qty. | 1 pc(s). | |
| Type | SDIS 0.8X4.0X100 | Version |
| Order No. | 9008400000 | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056361 | |
| Qty. | 1 pc(s). | |

Contact removal tools

Weidmüller offers a variety of crimping tools, contact removal tools, and fibre optic tools.

General ordering data

| | | |
|------------|----------------------------|-----------------------------|
| Type | REMOVAL TOOL HE | Version |
| Order No. | 1866750000 | Tools, Contact Removal Tool |
| GTIN (EAN) | 4032248437078 | |
| Qty. | 1 pc(s). | |

Tightening torques and screwing tools

| Screw size | Connector type | Dia. tightening torque in Nm | Recommended blade inserts and AF size for hexagon socket |
|--------------------|---|---|--|
| M 2.5 | Signal contacts | | |
| | S 6/6 | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | S 6/12 | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| M 2.9 x 0.5 | Fastening screws | | |
| | HQ 4/2 | 0.8 (plastic) / 1.1 (metal) | SD 0.6 x 3.5 mm or PH0 |
| | HQ 8 | 0.8 (plastic) / 1.1 (metal) | SD 0.6 x 3.5 mm or PH0 |
| | HQ 17 | 0.8 (plastic) / 1.1 (metal) | SD 0.6 x 3.5 mm or PH0 |
| M 3 | Contact screws | | |
| | HA 3 | 0.5 - 0.55 | SD 0.5 x 3.0 mm |
| | HA 4 | 0.5 - 0.55 | SD 0.5 x 3.0 mm |
| | HA 10 bis HA 48 | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PH0 |
| | HE | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | HVE | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | Signal contacts: | | |
| | S 4/2 | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | S 4/8 | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | PE connection via female contact | | |
| | S 4 | 0.5 - 0.8 | SD 0.6 x 3.5 mm |
| | ConCept modular frame, metal | 0.5 - 0.55 | SD 0.6 x 3.5 mm |
| | PE terminal | | |
| | HQ 5 | 0.5 - 0.55 | SD 0.6 x 3.5 or 0.8 x 4 mm |
| | HQ 7 | 0.5 - 0.55 | SD 0.6 x 3.5 or 0.8 x 4 mm |
| | Fastening screws | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | Guide pin | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | Guide bush | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| | Coding pins | 0.5 - 0.55 | SD 0.6 x 3.5 mm or PZ0 |
| M 4 | Contact screws | | |
| | HSB | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1 |
| | PE connection via male contact | | |
| | S 4 | 0.5 - 0.8 | SD 0.6 x 3.5 mm |
| | ConCept modular frame, metal | 1.2 - 1.5 | SD 0.6 x 3.5 mm |
| | PE terminal | | |
| | HA | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HE | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HEE | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HVE | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PH1 |
| | HD | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1 |
| | HDD | 1.2 - 1.5 | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1 |
| | S 6/6 (for signal contacts) | 1.2 - 1.5 | 0.8 x 4 mm or PZ1 |
| | ConCept modular frame, plastic | 1.2 - 1.5 | 0.8 x 4 mm or PZ1 |
| M 5 | PE terminal | | |
| | HSB | 2 - 2.5 | SD 1 x 5.5 mm or PZ2 |
| | S 4/0 (Screw connection) | 2 - 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 4/0 (Axial screw connection) | 2 - 2.5 | SD 0.8 x 4 mm or PZ 2 |
| | S 4/2 | 2 - 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 4/8 | 2 - 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 6/12 | 2 - 2.5 | SD 0.8 x 4 mm or PZ 2 |
| | S 6/36 | 2 - 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 8/24 | 2 - 2.5 | SD 1.2 x 6.5 mm or PH2 |
| | S 12/2 | 2 - 2.5 | SD 1.2 x 6.5 mm or PH2 |
| M 6 | Power contacts | | |
| | S 4/0 (Screw connection) | 1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4-16 mm ²) | SD 0.8 x 4 mm |
| | S 4/2 | 1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4-16 mm ²) | SD 0.8 x 4 mm |
| | S 4/8 | 1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4-16 mm ²) | SD 0.8 x 4 mm |
| M 7 x 0.75 | Power contacts | | |
| | S 4 | 1.1 - 1.7 | SW 2 |
| | S 6/6 (+ PE) | 6 - 8 | SW 4 |
| M 8 x 0.75 | Power contacts | | |
| | S 6/12 | 1.1 - 1.7 | SW 2 |
| | S 8/0 (+ PE) | 6 (10-16 mm ²) - 7 (25 mm ²) | SW 4 |
| M10 x 1 | Power contacts | | |
| | S 4/0 (Axial connection) | 2 - 3 | SW 3 |

Increasing the tightening torque does not improve the contact resistance. The stated torque settings offer optimal mechanical, thermal and electrical conditions. Exceeding the recommended values may even damage the conductor and terminal.