

HDC HE 16 MC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

For the crimp connection, 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: **16**

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, Male, 500 V, 16 A, Number of poles: 16, Crimp connection, Size: 6 |
| Order No. | 1207900000 |
| Type | HDC HE 16 MC |
| GTIN (EAN) | 4008190171698 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 84.5 mm | Depth (inches) | 3.327 inch |
| Height | 34 mm | Height (inches) | 1.339 inch |
| Width | 34 mm | Width (inches) | 1.339 inch |
| Net weight | 46 g | | |

Temperatures

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

Dimensions

| | | | |
|----------------|-------|-------------------|---------|
| Height of plug | 34 mm | Total length base | 84.5 mm |
| Width | 34 mm | | |

General data

| | | | |
|--------------------------------------|---|-------------------------------|-------|
| BG | 6 | 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 | 16 |
| 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 | HE |
| Size | 6 | Type | Male |
| Type of connection | Crimp connection | UL 94 flammability rating | V-0 |
| Volume resistance | ≤2 mΩ | | |

Connection data PE

| | | | |
|---------------------------------------|--------------|---------------------------------------|-------------------|
| 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 | 6 | Conductor cross-section, max. | 4 mm ² |
| Conductor cross-section, min. | 0.5 mm ² | Material | Copper alloy |
| Size | 6 | 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 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@81329c0 de.myview.objectmodel.impl.BlockImpl@7795b3b7 de.myview.objectmodel.impl.BlockImpl@6ab926ab de.myview.objectmodel.impl.BlockImpl@7e39003b de.myview.objectmodel.impl.BlockImpl@6ff57b15 de.myview.objectmodel.impl.BlockImpl@35a76557 de.myview.objectmodel.impl.BlockImpl@16888136 de.myview.objectmodel.impl.BlockImpl@20066304 de.myview.objectmodel.impl.BlockImpl@646f89c2 de.myview.objectmodel.impl.BlockImpl@6a6cc5c5 de.myview.objectmodel.impl.BlockImpl@38bf788f de.myview.objectmodel.impl.BlockImpl@2b3222df |

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www.weidmueller.com**Technical data****Approvals**

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E92202 |

Downloads

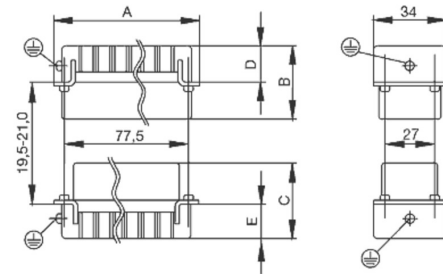
| | |
|---|--|
| Approval/Certificate/Document of Conformity | Manufacturer's declaration |
| Engineering Data | CAD data – STEP |
| Technical Documentation | 1207900000_HDC_HE_16_MC_STP_Blatt__1.pdf |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN FL FIELDWIRING EN |

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Drawings



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Accessories

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

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 crimp |
| GTIN (EAN) | 4032248733446 | |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****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). | |

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). | |

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Accessories

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-SM1.5AU | Version |
| Order No. | 1651440000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190400118 | Conductor cross-section, max.: 1.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM4.0AG | Version |
| Order No. | 1200900000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190115906 | Conductor cross-section, max.: 4, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM2.5AG | Version |
| Order No. | 1200800000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190131913 | Conductor cross-section, max.: 2.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM2.5AU | Version |
| Order No. | 1651450000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190400125 | Conductor cross-section, max.: 2.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM4.0AU | Version |
| Order No. | 1651460000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190400132 | Conductor cross-section, max.: 4, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM0.5AG | Version |
| Order No. | 1200500000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190159627 | Conductor cross-section, max.: 0.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM0.75-1.00AG | Version |
| Order No. | 1200600000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190171308 | Conductor cross-section, max.: 1, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM1.5AG | Version |
| Order No. | 1200700000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190074920 | Conductor cross-section, max.: 1.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM0.5AU | Version |
| Order No. | 1651420000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190400095 | Conductor cross-section, max.: 0.5, turned, Copper alloy |
| Qty. | 100 pc(s). | |
| Type | HDC-C-HE-SM0.75-1.00AU | Version |
| Order No. | 1651430000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4008190400101 | Conductor cross-section, max.: 1, turned, Copper alloy |
| Qty. | 100 pc(s). | |

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Catalogue status 29.06.2024 / We reserve the right to make technical changes.

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| | | |
|------------|----------------------------|---|
| Type | HDC-C-HE-SM4.65AU | Version |
| Order No. | 1116540000 | Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male, |
| GTIN (EAN) | 4032248897261 | Conductor cross-section, max.: 4.65, turned, Copper alloy |
| Qty. | 100 pc(s). | |

DSTV



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

General ordering data

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

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

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). | |

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). | |

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.