

**HDC HDD 72 MC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

The HDD series with machined crimp contacts is designed for high pole counts in tight spaces. Users save installation space with the smaller design, without having to limit the number of poles.

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: **72**

Rated current: **10 A**

Rated voltage: **250 V**

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

Crimp connection

**General ordering data**

|            |                                                                               |
|------------|-------------------------------------------------------------------------------|
| Version    | HDC insert, Male, 250 V, 10 A, Number of poles: 72, Crimp connection, Size: 6 |
| Order No.  | <a href="#">1651190000</a>                                                    |
| Type       | HDC HDD 72 MC                                                                 |
| GTIN (EAN) | 4008190299798                                                                 |
| Qty.       | 1 pc(s).                                                                      |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 84.5 mm | Depth (inches)  | 3.327 inch |
| Height     | 33 mm   | Height (inches) | 1.299 inch |
| Width      | 34 mm   | Width (inches)  | 1.339 inch |
| Net weight | 55 g    |                 |            |

## Temperatures

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

## Dimensions

|                |       |                   |         |
|----------------|-------|-------------------|---------|
| Height of plug | 35 mm | Total length base | 84.5 mm |
| Width          | 34 mm |                   |         |

## General data

|                               |                                                             |        |
|-------------------------------|-------------------------------------------------------------|--------|
| BG                            | 6                                                           |        |
| Colour                        | beige                                                       |        |
| Conductor cross-section       | 2.5 mm²                                                     |        |
| Free from halogens            | true                                                        |        |
| Insulating material           | PC glass-fibre reinforced (UL-listed and railway-certified) |        |
| Insulating material group     | IIIa                                                        |        |
| Insulation strength           | 10 <sup>10</sup> Ω                                          |        |
| Low smoke acc. DIN EN 45545-2 | Yes                                                         |        |
| Material                      | Copper alloy                                                |        |
| Number of poles               | 72                                                          |        |
| Plugging cycles, gold         | ≥ 500                                                       |        |
| Plugging cycles, silver       | ≥ 500                                                       |        |
| Pollution severity            | 3                                                           |        |
| Rated current (DIN EN 61984)  | 10 A                                                        |        |
| Rated current (UR)            | Wire connection cross section AWG                           | AWG 14 |
|                               | Rated current                                               | 10 A   |
|                               | Wire connection cross section AWG                           | AWG 16 |
|                               | Rated current                                               | 7 A    |
|                               | Wire connection cross section AWG                           | AWG 18 |
|                               | Rated current                                               | 7 A    |
|                               | Wire connection cross section AWG                           | AWG 20 |
|                               | Rated current                                               | 2.75 A |
|                               | Wire connection cross section AWG                           | AWG 22 |
|                               | Rated current                                               | 2.75 A |
|                               | Wire connection cross section AWG                           | AWG 24 |
|                               | Rated current                                               | 2.75 A |
| Rated current (cUR)           | Wire connection cross section AWG                           | AWG 14 |
|                               | Rated current                                               | 6 A    |
|                               | Wire connection cross section AWG                           | AWG 16 |
|                               | Rated current                                               | 3.5 A  |
|                               | Wire connection cross section AWG                           | AWG 18 |
|                               | Rated current                                               | 3.5 A  |
|                               | Wire connection cross section AWG                           | AWG 20 |
|                               | Rated current                                               | 1.47 A |
|                               | Wire connection cross section AWG                           | AWG 22 |
|                               | Rated current                                               | 1.47 A |
|                               | Wire connection cross section AWG                           | AWG 24 |
|                               | Rated current                                               | 1.47 A |

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|                                      |                  |
|--------------------------------------|------------------|
| Rated impulse voltage (DIN EN 61984) | 4 kV             |
| Rated voltage (DIN EN 61984)         | 250 V            |
| Rated voltage according to UL/CSA    | 600 V AC/DC      |
| Series                               | HDD              |
| Size                                 | 6                |
| Type                                 | Male             |
| Type of connection                   | Crimp connection |
| UL 94 flammability rating            | V-0              |
| Volume resistance                    | ≤4 mΩ            |

## Connection data PE

|                                       |                            |                                       |                     |
|---------------------------------------|----------------------------|---------------------------------------|---------------------|
| Blade size, slotted (PE connection)   | SD 0.6 x 3.5, SD 0.8 x 4.0 | Connection type PE                    | Screw connection    |
| Fixing screw                          | M 4                        | Rated cross-section                   | 2.5 mm <sup>2</sup> |
| 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 14              |
| Wire cross section, AWG (PE), min.    | AWG 20                     |                                       |                     |

## Version

|                                                      |                      |                                                      |                      |
|------------------------------------------------------|----------------------|------------------------------------------------------|----------------------|
| BG                                                   | 6                    | Conductor cross-section, max.                        | 2.05 mm <sup>2</sup> |
| Conductor cross-section, min.                        | 0.14 mm <sup>2</sup> | Material                                             | Copper alloy         |
| Size                                                 | 6                    | Stripping length, rated connection                   | 8 mm                 |
| Type of connection                                   | Crimp connection     | Volume resistance                                    | ≤4 mΩ                |
| Wire connection cross section AWG, max.              | AWG 14               | Wire connection cross section AWG, min.              | AWG 26               |
| Wire connection cross section, finely stranded, max. | 2.5 mm <sup>2</sup>  | Wire connection cross section, finely stranded, min. | 0.5 mm <sup>2</sup>  |
| Wire cross-section, solid, max.                      | 2.5 mm <sup>2</sup>  | Wire cross-section, solid, min.                      | 0.5 mm <sup>2</sup>  |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000438    | ETIM 7.0    | EC000438    |
| ETIM 8.0    | EC000438    | ETIM 9.0    | EC000438    |
| ETIM 10.0   | 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 | ECLASS 14.0 | 27-44-02-05 |
| ECLASS 15.0 | 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                 |

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|---------------------|--------------------------|
| 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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS Compliance Status | Compliant without exemption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| REACH SVHC             | Potassium perfluorobutane sulfonate 29420-49-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| SCIP                   | 1609748e-c278-4c9b-b3d1-e6215d2988cd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chemical resistance    | de.myview.objectmodel.impl.BlockImpl@6cf138e de.myview.objectmodel.impl.BlockImpl@ac3ce7d<br>de.myview.objectmodel.impl.BlockImpl@131d3ee2 de.myview.objectmodel.impl.BlockImpl@140e6b07<br>de.myview.objectmodel.impl.BlockImpl@6aa3496b de.myview.objectmodel.impl.BlockImpl@7e87d264<br>de.myview.objectmodel.impl.BlockImpl@4970978 de.myview.objectmodel.impl.BlockImpl@63260cbe<br>de.myview.objectmodel.impl.BlockImpl@13bee9a0 de.myview.objectmodel.impl.BlockImpl@536a1d41<br>de.myview.objectmodel.impl.BlockImpl@6f0a029d de.myview.objectmodel.impl.BlockImpl@3c9aa03e |

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (cURus) | E92202                                                                                                                                                                                                                                                                                                                                                  |

## Downloads

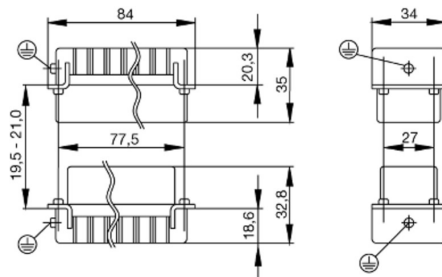
|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Manufacturer's declaration</a>                             |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                        |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                               |
| Brochures                                   | <a href="#">FL FIELDWIRING EN</a><br><a href="#">FL FIELDWIRING EN</a> |

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## Drawings



# Tightening torques and screwing tools

| Screw size         | Connector type                          | Dia. tightening torque in Nm                                                      | Recommended blade inserts and AF size for hexagon socket |
|--------------------|-----------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>M 2.5</b>       | <b>Signal contacts</b>                  |                                                                                   |                                                          |
|                    | 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                                   |
| <b>M 2.9 x 0.5</b> | <b>Fastening screws</b>                 |                                                                                   |                                                          |
|                    | 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                                   |
| <b>M 3</b>         | <b>Contact screws</b>                   |                                                                                   |                                                          |
|                    | 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                                   |
|                    | <b>Signal contacts:</b>                 |                                                                                   |                                                          |
|                    | 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                                   |
|                    | <b>PE connection via female contact</b> |                                                                                   |                                                          |
|                    | 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                                          |
|                    | <b>PE terminal</b>                      |                                                                                   |                                                          |
|                    | 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                               |
|                    | <b>Fastening screws</b>                 | 0.5 - 0.55                                                                        | SD 0.6 x 3.5 mm or PZ0                                   |
|                    | <b>Guide pin</b>                        | 0.5 - 0.55                                                                        | SD 0.6 x 3.5 mm or PZ0                                   |
|                    | <b>Guide bush</b>                       | 0.5 - 0.55                                                                        | SD 0.6 x 3.5 mm or PZ0                                   |
|                    | <b>Coding pins</b>                      | 0.5 - 0.55                                                                        | SD 0.6 x 3.5 mm or PZ0                                   |
| <b>M 4</b>         | <b>Contact screws</b>                   |                                                                                   |                                                          |
|                    | HSB                                     | 1.2 - 1.5                                                                         | SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1                        |
|                    | <b>PE connection via male contact</b>   |                                                                                   |                                                          |
|                    | 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                                          |
|                    | <b>PE terminal</b>                      |                                                                                   |                                                          |
|                    | 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                                        |
| <b>M 5</b>         | <b>PE terminal</b>                      |                                                                                   |                                                          |
|                    | 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                                   |
| <b>M 6</b>         | <b>Power contacts</b>                   |                                                                                   |                                                          |
|                    | S 4/0 (Screw connection)                | 1.2 (1.5 mm <sup>2</sup> ) / 2 (2.5 mm <sup>2</sup> ) / 3 (4-16 mm <sup>2</sup> ) | SD 0.8 x 4 mm                                            |
|                    | S 4/2                                   | 1.2 (1.5 mm <sup>2</sup> ) / 2 (2.5 mm <sup>2</sup> ) / 3 (4-16 mm <sup>2</sup> ) | SD 0.8 x 4 mm                                            |
|                    | S 4/8                                   | 1.2 (1.5 mm <sup>2</sup> ) / 2 (2.5 mm <sup>2</sup> ) / 3 (4-16 mm <sup>2</sup> ) | SD 0.8 x 4 mm                                            |
| <b>M 7 x 0.75</b>  | <b>Power contacts</b>                   |                                                                                   |                                                          |
|                    | S 4                                     | 1.1 - 1.7                                                                         | SW 2                                                     |
|                    | S 6/6 (+ PE)                            | 6 - 8                                                                             | SW 4                                                     |
| <b>M 8 x 0.75</b>  | <b>Power contacts</b>                   |                                                                                   |                                                          |
|                    | S 6/12                                  | 1.1 - 1.7                                                                         | SW 2                                                     |
|                    | S 8/0 (+ PE)                            | 6 (10-16 mm <sup>2</sup> ) - 7 (25 mm <sup>2</sup> )                              | SW 4                                                     |
| <b>M10 x 1</b>     | <b>Power contacts</b>                   |                                                                                   |                                                          |
|                    | 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.