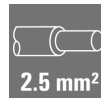


**HDC HE 6 MS****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

For the screw connection, the wire connection level is designed as a screw element. All screw connections are equipped with a wire protection spring (with the exception of size 1).

Number of poles: **6**

Rated current: **24 A**

Rated voltage: **500 V**

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

Screw connection

**General ordering data**

|            |                                                                              |
|------------|------------------------------------------------------------------------------|
| Version    | HDC insert, Male, 500 V, 24 A, Number of poles: 6, Screw connection, Size: 3 |
| Order No.  | <a href="#">1200000000</a>                                                   |
| Type       | HDC HE 6 MS                                                                  |
| GTIN (EAN) | 4008190067564                                                                |
| Qty.       | 1 pc(s).                                                                     |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 51 mm   | Depth (inches)  | 2.008 inch |
| Height     | 35.7 mm | Height (inches) | 1.406 inch |
| Width      | 34 mm   | Width (inches)  | 1.339 inch |
| Net weight | 49 g    |                 |            |

## Temperatures

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

## Environmental Product Compliance

|                     |                                                                |                           |
|---------------------|----------------------------------------------------------------|---------------------------|
| REACH SVHC          | Lead 7439-92-1, Potassium perfluorobutane sulfonate 29420-49-3 |                           |
| Chemical resistance | 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   |

## Dimensions

|                |         |                   |       |
|----------------|---------|-------------------|-------|
| Height of plug | 35.7 mm | Total length base | 51 mm |
| Width          | 34 mm   |                   |       |

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## Technical data

## General data

|                              |                     |                                      |                                                             |
|------------------------------|---------------------|--------------------------------------|-------------------------------------------------------------|
| Conductor cross-section      | 2.5 mm <sup>2</sup> | Insulating material                  | PC glass-fibre reinforced (UL-listed and railway-certified) |
| Insulating material group    | IIIa                | Insulation strength                  | 10 <sup>10</sup> Ω                                          |
| Material                     | Copper alloy        | Max. torque for main contact         | 0.55 Nm                                                     |
| Min. torque for main contact | 0.5 Nm              | Number of poles                      | 6                                                           |
| Plugging cycles, silver      | ≥ 500               | Pollution severity                   | 3                                                           |
| Rated current (DIN EN 61984) | 24 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                                 | 3                                                           |
| Surface finish               | Silver passivated   | Type                                 | Male                                                        |
| 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 <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 12            |
| Wire cross section, AWG (PE), min.    | AWG 20       |                                       |                   |

## Version

|                                                                                         |                     |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|---------------------|
| Blade size                                                                              | size PH 1           | Blade size, slotted (screw connection)                                                  | SD 0.6 x 3.5        |
| Clamping screw                                                                          | M 3                 | Conductor cross-section, max.                                                           | 2.5 mm <sup>2</sup> |
| Conductor cross-section, min.                                                           | 0.5 mm <sup>2</sup> | Material                                                                                | Copper alloy        |
| Max. torque for main contact                                                            | 0.55 Nm             | Min. torque for main contact                                                            | 0.5 Nm              |
| Size                                                                                    | 3                   | Stripping length, rated connection                                                      | 9 mm                |
| Surface finish                                                                          | Silver passivated   | Type of connection                                                                      | Screw connection    |
| Volume resistance                                                                       | ≤ 2 mΩ              | Wire connection cross section AWG, max.                                                 | AWG 14              |
| Wire connection cross section AWG, min.                                                 | AWG 20              | 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 connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, 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    | 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 |             |             |

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Approvals



ROHS Conform

UL File Number Search E92202

**Downloads**Approval/Certificate/Document of  
Conformity[Manufacturer's declaration](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

Technical Documentation

[1200000000 HDC\\_HE\\_06\\_MS\\_STP\\_Blatt\\_\\_1.pdf](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

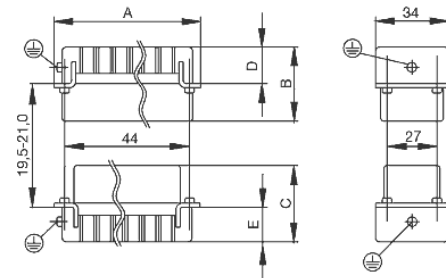
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## Drawings



# 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.