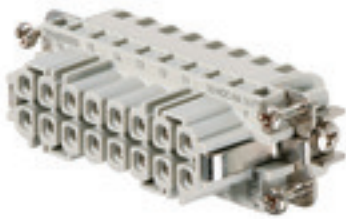


**HDC HA 16 FT****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

The small and thin HA series can be used wherever space is limited.

The wire connection level is designed for crimp contacts. Thus practically no servicing is required. In addition, a secure and permanent connection is established which is resistant to vibrations.

Pole count: 16

Rated current: 22 A

Rated voltage 250 V

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

Tension clamp connection

**General ordering data**

|            |                                                                                         |
|------------|-----------------------------------------------------------------------------------------|
| Version    | HDC insert, Female, 250 V, 16 A, Number of poles: 16, Tension-clamp connection, Size: 5 |
| Order No.  | <a href="#">1896800000</a>                                                              |
| Type       | HDC HA 16 FT                                                                            |
| GTIN (EAN) | 4032248592401                                                                           |
| Qty.       | 1 pc(s).                                                                                |

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 73 mm      | Depth (inches)  | 2.874 inch |
| Height         | 31.1 mm    | Height (inches) | 1.224 inch |
| Net weight     | 61.8 g     | Width           | 23 mm      |
| Width (inches) | 0.906 inch |                 |            |

## 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 socket | 31.1 mm | Total length base | 73 mm |
| Width            | 23 mm   |                   |       |

## HDC HA 16 FT

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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        | Number of poles                      | 16                                                          |
| Plugging cycles, silver      | ≥ 500               | Pollution severity                   | 3                                                           |
| Rated current (DIN EN 61984) | 16 A                | 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                       | HA                  | Size                                 | 5                                                           |
| Surface finish               | Silver passivated   | Type                                 | Female                                                      |
| UL 94 flammability rating    | V-0                 | Volume resistance                    | ≤2 mΩ                                                       |

## Connection data PE

|                                       |                     |                                       |              |
|---------------------------------------|---------------------|---------------------------------------|--------------|
| Blade size, crosshead                 | size PH1            | Blade size, slotted (PE connection)   | 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

|                                                                                         |                      |                                                                                         |                          |
|-----------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------|--------------------------|
| Blade size, slotted (screw connection)                                                  | SD 0.5 x 3.0         | Conductor cross-section, max.                                                           | 2.5 mm <sup>2</sup>      |
| Conductor cross-section, min.                                                           | 0.25 mm <sup>2</sup> | Material                                                                                | Copper alloy             |
| Size                                                                                    | 5                    | Stripping length, rated connection                                                      | 8 mm                     |
| Surface finish                                                                          | Silver passivated    | Type of connection                                                                      | Tension-clamp connection |
| Volume resistance                                                                       | ≤2 mΩ                | Wire connection cross section AWG, max.                                                 | AWG 14                   |
| Wire connection cross section AWG, min.                                                 | AWG 24               | 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    |
| 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 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E92202  |

### HDC HA 16 FT

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## Technical data

### Downloads

|                         |                                                          |
|-------------------------|----------------------------------------------------------|
| Engineering Data        | <a href="#">STEP</a>                                     |
| Engineering Data        | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                 |
| Technical Documentation | <a href="#">1896800000_HDC_HA_16_FT_STP_Blatt__1.pdf</a> |

## HDC HA 16 FT

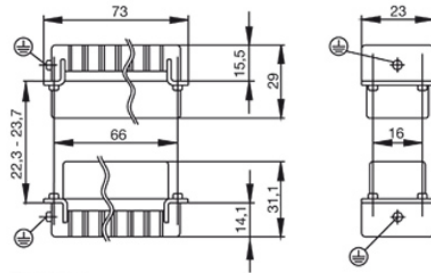
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# Drawings

### Abmessungen

Stift



Buchse

# 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.