

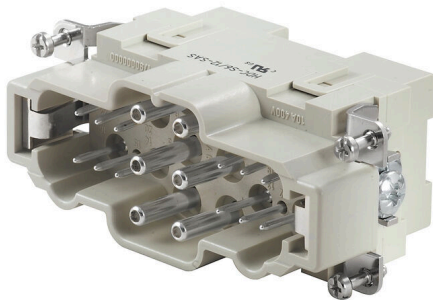
**HDC S6 12 SAS****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The MixMate series of connectors can simultaneously transmit high rated currents and voltages as well as signals. An axial screw can be used to secure the wire.  
Axial screw connection / TOP connection

**General ordering data**

|            |  |
|------------|--|
| Version    | HDC insert, Male, 690 V, 48 A, Number of poles: 18, Axial screw connection, Installation size: 6 |
| Order No.  | <a href="#">1790000000</a>   |
| Type       | HDC S6 12 SAS  |
| GTIN (EAN) | 4032248212064  |
| Qty.       | 1 items  |

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**Technical data**

**Approvals**

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E92202                     |

**Dimensions and weights**

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 84.5 mm | Depth (inches)  | 3.3268 inch |
| Height     | 47.3 mm | Height (inches) | 1.8622 inch |
| Width      | 34 mm   | Width (inches)  | 1.3386 inch |
| Net weight | 147 g   |                 |             |

**Temperatures**

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

**Environmental Product Compliance**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | c4c4c9fc-7957-49de-b5fd-516c2623a8c3 |

|                     |                          |                           |
|---------------------|--------------------------|---------------------------|
| 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**

|                |         |                   |         |
|----------------|---------|-------------------|---------|
| Width          | 34 mm   | Total length base | 84.5 mm |
| Height of plug | 47.3 mm |                   |         |

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## Technical data

## General data

|                                      |                   |                                       |   |
|--------------------------------------|-------------------|---------------------------------------|---|
| Number of poles                      | 18                | Tightening torque                     | 0.5 Nm  |
| Plugging cycles, silver              | ≥ 500             | Type of connection                    | Axial screw connection                                      |
| Installation size                    | 6                 | UL 94 flammability rating             | V-0   |
| Volume resistance                    | ≤2 mΩ             | Colour                                | beige   |
| Insulation resistance                | 1010 Ω            | Insulating material                   | PC glass-fibre reinforced (UL-listed and railway-certified) |
| Insulating material group            | IIIa              | Tightening torque, max. PE connection | 2.5 Nm  |
| Surface finish                       | Silver passivated | Type                                  | Male  |
| Pollution severity                   | 3                 | Tightening torque, min. PE connection | 2 Nm  |
| Basic material                       | Copper alloy      | Series                                | MixMate   |
| Rated voltage (DIN EN 61984)         | 690 V             | Rated voltage according to UL/CSA     | 600 V AC/DC   |
| Rated impulse voltage (DIN EN 61984) | 8 kV              | Rated current (DIN EN 61984)          | 48 A  |
| Free from halogens                   | true              | Low smoke acc. DIN EN 45545-2         | Yes   |
| BG                                   | 6                 | Number of signal contacts             | 12  |
| Number of power contacts             | 6                 |                                       |   |

## Connection data PE

|                                       |                    |                                       |              |
|---------------------------------------|--------------------|---------------------------------------|--------------|
| Connection type PE                    | Screw connection   | Blade size, slotted (PE connection)   | SD 0.8 x 4.0 |
| Stripping length PE connection        | 8 mm               | Tightening torque, max. PE connection | 2.5 Nm       |
| Tightening torque, min. PE connection | 2 Nm               | Fixing screw                          | M 5          |
| Rated cross-section                   | 10 mm <sup>2</sup> | Wire cross section, AWG (PE), min.    | AWG 14       |
| Wire cross section, AWG (PE), max.    | AWG 8              |                                       |              |

## Power contact

|   |                        |   |                    |
|---|------------------------|---|--------------------|
| Type of connection, power contact                   | Axial screw connection | Number of poles, performance contact        | 6                  |
| Tightening torque, max.                             | 0.9 Nm                 | Tightening torque, min.                     | 0.45 Nm            |
| Tightening torque, power contact, max.              | 1.7 Nm                 | Tightening torque, power contact, min.      | 1.1 Nm             |
| Stripping length, performance contact               | 8 mm                   | Clamping range, power contact, max.         | 10 mm <sup>2</sup> |
| Clamping range, power contact, min.                 | 2.5 mm <sup>2</sup>    | Rated voltage (DIN EN 61984), power contact | 690 V              |
| Rated impulse voltage (DIN EN 61984), power contact | 8 kV                   | Rated current (DIN EN 61984), power contact | 48 A               |
| Hexagon socket                                      | 2 mm                   |   |                    |

## Signal contact

|  |                     |   |                     |
|--|---------------------|---|---------------------|
| Type of connection, signal                   | Screw connection    | Number of poles, signal                           | 12                  |
| AF size signal contact                       | SD 0.6 x 3.5        | Tightening torque, max.                           | 0.9 Nm              |
| Tightening torque, min.                      | 0.45 Nm             | Tightening torque, signal contact, max.           | 0.8 Nm              |
| Tightening torque, signal contact, min.      | 0.4 Nm              | Clamping range, signal contact, max.              | 2.5 mm <sup>2</sup> |
| Clamping range, signal contact, min.         | 0.5 mm <sup>2</sup> | Stripping length, signal                          | 12 mm               |
| Rated voltage (DIN EN 61984), signal contact | 400 V               | Rated impulse voltage (DIN EN 61984), 6 kV signal |                     |
| Rated current (DIN EN 61984), signal         | 16 A                |   |                     |

## Version

|   |                        |                                    |                    |
|---|------------------------|------------------------------------|--------------------|
| Wire connection cross section AWG, max. | AWG 8                  | Stripping length, rated connection | 8 mm               |
| Type of connection                      | Axial screw connection | Installation size                  | 6                  |
| Volume resistance                       | ≤2 mΩ                  | Clamping screw                     | M 8 x 0.75 mm      |
| Wire connection cross section AWG, min. | AWG 14                 | Wire cross-section, solid, max.    | 10 mm <sup>2</sup> |

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|   |                     |   |                    |
|---|---------------------|---|--------------------|
| Wire cross-section, solid, min.   | 2.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 10 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, max.                                    | 10 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, min.                                    | 2.5 mm <sup>2</sup> | Conductor cross-section, max.   | 10 mm <sup>2</sup> |
| Conductor cross-section, min.   | 2.5 mm <sup>2</sup> | Surface finish  | Silver passivated  |
| Basic material  | Copper alloy        | BG  | 6                  |

## Classifications

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

Drawings

