

**HDC insert  
HDC S6 6 SAS****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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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**

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| Type       | HDC S6 6 SAS                                                                        |
| Order No.  | <a href="#">1790030000</a>                                                          |
| Version    | HDC insert, Pin, 690 V, 100 A, Number of poles: 12, Axial screw connection, Size: 8 |
| GTIN (EAN) | 4032248212095                                                                       |
| Qty.       | 1 pc(s).                                                                            |

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 34      | Width (inches)  | 1.339 inch |
| Height     | 47.8 mm | Height (inches) | 1.882 inch |
| Depth      | 111 mm  | Depth (inches)  | 4.37 inch  |
| Net weight | 286 g   |                 |            |

### Temperatures

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

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Dimensions

|                |         |                   |        |
|----------------|---------|-------------------|--------|
| Height of plug | 47.8 mm | Total length base | 111 mm |
|----------------|---------|-------------------|--------|

### General data

|                                      |                                                             |                              |                   |
|--------------------------------------|-------------------------------------------------------------|------------------------------|-------------------|
| Insulating material                  | PC glass-fibre reinforced (UL-listed and railway-certified) | Insulating material group    | IIIa              |
| Insulation strength                  | $10^{10} \Omega$                                            | Material                     | Copper alloy      |
| Number of poles                      | 12                                                          | Number of power contacts     | 6                 |
| Number of signal contacts            | 6                                                           | Plugging cycles, silver      | $\geq 500$        |
| Pollution severity                   | 3                                                           | Rated current (DIN EN 61984) | 100 A             |
| Rated impulse voltage (DIN EN 61984) | 8 kV                                                        | Rated voltage (DIN EN 61984) | 690 V             |
| Rated voltage according to UL/CSA    | 600 V AC/DC                                                 | Series                       | MixMate           |
| Size                                 | 8                                                           | Surface finish               | Silver passivated |
| Type                                 | Pin                                                         | UL 94 flammability rating    | V-0               |
| Volume resistance                    | $\leq 1 \text{ m}\Omega$                                    |                              |                   |

### Connection data PE

|                                                      |                    |                                                      |                    |
|------------------------------------------------------|--------------------|------------------------------------------------------|--------------------|
| Connection type PE                                   | Screw connection   | Rated cross-section                                  | 35 mm <sup>2</sup> |
| Stripping length PE connection                       | 8 mm               | Tightening torque, max. PE connection                | 8 Nm               |
| Tightening torque, min. PE connection                | 6 Nm               | Wire connection cross section, finely stranded, max. | 35 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded, min. | 16 mm <sup>2</sup> | Wire cross section, AWG (PE), max.                   | AWG 2              |
| Wire cross section, AWG (PE), min.                   | AWG 6              |                                                      |                    |

### Power contact

|                                                     |                    |                                             |                        |
|-----------------------------------------------------|--------------------|---------------------------------------------|------------------------|
| Clamping range, power contact, max.                 | 35 mm <sup>2</sup> | Clamping range, power contact, min.         | 16 mm <sup>2</sup>     |
| Number of poles, performance contact                | 6                  | Rated current (DIN EN 61984), power contact | 100 A                  |
| Rated impulse voltage (DIN EN 61984), power contact | 8 kV               | Rated voltage (DIN EN 61984), power contact | 690 V                  |
| Stripping length, performance contact               | 13 mm              | Tightening torque, power contact, max.      | 8 Nm                   |
| Tightening torque, power contact, min.              | 6 Nm               | Type of connection, power contact           | Axial screw connection |

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### Signal contact

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

### Version

|                                                      |                    |                                                      |                        |
|------------------------------------------------------|--------------------|------------------------------------------------------|------------------------|
| Clamping screw                                       | M 7 x 0.75 mm      | Conductor cross-section, max.                        | 35 mm <sup>2</sup>     |
| Conductor cross-section, min.                        | 16 mm <sup>2</sup> | Material                                             | Copper alloy           |
| Size                                                 | 8                  | Stripping length, rated connection                   | 13 mm                  |
| Surface finish                                       | Silver passivated  | Type of connection                                   | Axial screw connection |
| Volume resistance                                    | ≤ 1 mΩ             | Wire connection cross section AWG, max.              | AWG 2                  |
| Wire connection cross section AWG, min.              | AWG 6              | Wire connection cross section, finely stranded, max. | 35 mm <sup>2</sup>     |
| Wire connection cross-section, finely stranded, min. | 16 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 | UNSPSC     | 30-21-18-01 |

### Approvals

Approvals



ROHS Conform

### Downloads

|                    |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| Brochure/Catalogue | <a href="#">CAT 3 HDC 17/18 EN</a><br><a href="#">FL FIELDWIRING EN</a> |
| Engineering Data   | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                |
| Engineering Data   | <a href="#">STEP</a>                                                    |

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