

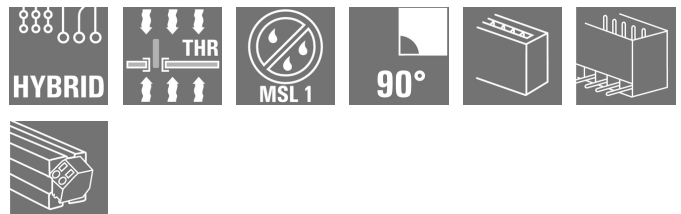
MHS 7S/04-5/04 D11 H T3 B T**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image**OMNIMATE® 4.0 - the next evolution step**

OMNIMATE® 4.0 follows the trend of One Cable Technology (OCT). The modular concept enables the fast configuration of hybrid interfaces, which transmit data, signals and energy in a single connector. As a result, you can reduce the cabling effort in a wide variety of applications, simplify maintenance and accelerate automation processes. The unique SNAP IN connection is the backbone and speeds up the wiring process.

The fastest connection yet

- Fast, safe, and tool-free wiring due to unique SNAP IN connection
- Ready for Robot through "wire ready" delivery with open clamping point
- Optical and acoustic feedback indicates proper wiring

Create your own configuration

- Flexible configuration and ordering via the Weidmüller Configurator (WMC)
- Dispatch within three days – even for individually configured products
- Automatic offer preparation for the configured product

Simply configuration of modular hybrid connectors

- Flexible combination options for power, signal and data transmission
- Future-proof Single-Pair Ethernet technology

General ordering data

| | |
|--------------|--|
| Version | PCB plug-in connector, male header, THT/THR solder connection, Pitch in mm (P): 7.50 mm, Number of poles: 8, 90°, Tube |
| Order No. | 8000085263 |
| Type | MHS 7S/04-5/04 D11 H T3 B T |
| GTIN (EAN) | 4064675623229 |
| Qty. | 9 pc(s). |
| Product data | IEC: 630 V / 30.4 A UL: 300 V / 18.5 A |
| Packaging | Tube |

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Technical data

Dimensions and weights

| | | | |
|--------------------------|---------|-----------------|------------|
| Depth | 14.8 mm | Depth (inches) | 0.583 inch |
| Height | 15.1 mm | Height (inches) | 0.594 inch |
| Height of lowest version | 11.9 mm | Net weight | 12.065 g |

System specifications

| | | | |
|--|---------------------------|---------------------------------|------------------|
| Product family | OMNIMATE 4.0 | Type of connection | Board connection |
| Mounting onto the PCB | THT/THR solder connection | Pitch in mm (P) | 7.5 mm |
| Outgoing elbow | 90° | Number of poles | 8 |
| Number of solder pins per pole | 1 | Solder pin length (l) | 3.2 mm |
| Solder pin dimensions | 1.0 x 1.0 mm | Solder eyelet hole diameter (D) | 1.4 mm |
| Solder eyelet hole diameter tolerance (D)+ | 0,1 mm | Outside diameter of solder pad | 2.3 mm |
| Template aperture diameter | 2.1 mm | L1 in mm | 22.5 mm |
| L1 in inches | 0.886 " | L2 in mm | 15 mm |
| L2 in inch | 0.591 " | Number of rows | 1 |
| Pin series quantity | 1 | Plugging cycles | ≥ 25 |
| Plugging force/pole, max. | 9 N | Pulling force/pole, max. | 8 N |

Material data

| | | | |
|----------------------------------|----------|-----------------------------|--------|
| Insulating material | PA 9T | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | Moisture Level (MSL) | 1 |
| UL 94 flammability rating | V-0 | Contact base material | CuMg |
| Contact material | Cu-alloy | Contact surface | tinned |
| Tinning type | matt | Storage temperature, min. | -25 °C |
| Storage temperature, max. | 55 °C | Operating temperature, min. | -40 °C |
| Operating temperature, max. | 85 °C | | |

Rated data acc. to IEC

| | | | |
|---|------------------------|---|--------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 30.4 A |
| Rated current, max. number of poles (Tu=20°C) | 26.9 A | Rated current, min. number of poles (Tu=40°C) | 27 A |
| Rated current, max. number of poles (Tu=40°C) | 23.9 A | Rated voltage for surge voltage class / pollution degree II/2 | 630 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 500 V | Rated voltage for surge voltage class / pollution degree III/3 | 400 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 6 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 6 kV | | |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--------|---------------------------------------|--------|
| Rated voltage (Use group B / UL 1059) | 300 V | Rated voltage (Use group C / UL 1059) | 300 V |
| Rated voltage (Use group D / UL 1059) | 600 V | Rated voltage (Use group F / UL 1059) | 760 V |
| Rated current (Use group B / UL 1059) | 18.5 A | Rated current (Use group C / UL 1059) | 18.5 A |
| Rated current (Use group D / UL 1059) | 5 A | Rated current (Use group F / UL 1059) | 18.5 A |

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Technical data

Technical data - hybrid (data)

| | | | |
|--|--------------------------------|---|----------------------------|
| Number of poles (Data) | 2 | Connector Standard (Data) | IEC 63171-2 |
| Contact material (Data) | Cu | Contact surface (Data) | Ni/Au |
| Rated current (Data) | 2 A | Rated voltage (Data) | 72 V |
| Solder pin length (l) (Data) | 2.1 mm | Solder pin dimensions (Data) | Octagonal |
| Tolerance of solder pin position (Data) | 0.1 mm | Dielectric strength, contact / contact (Data) | ≥ 1000 V DC |
| Dielectric strength, contact / shield (Data) | ≥ 1500 V DC | Insulation strength (Data) | ≥ 500 MΩ |
| PoE / PoE+ (Data) | PoDL acc. to IEEE 802.3bu / cg | Transmission rate (Data) | 10/100 MBit/s, 1000 MBit/s |
| Shielding (Data) | Yes | | |

Technical data - hybrid (power)

| | | | |
|---|--------------|---|----------|
| Number of rows (Power) | 1 | Number of rows (Signal) | 1 |
| Contact material (Power) | CuMg | Contact surface (Power) | tinned |
| Rated current (Use group B / UL 1059) (Power) | 18.5 A | Rated current (Use group C / UL 1059) (Power) | 18.5 A |
| Rated current (Use group D / UL 1059) (Power) | 10 A | Rated current, min. number of poles (Tu=20°C) (Power) | 30.4 A |
| Rated current, max. number of poles (Tu=20°C) (Power) | 26.9 A | Rated current, min. number of poles (Tu=40°C) (Power) | 27 A |
| Rated current, max. number of poles (Tu=40°C) (Power) | 23.9 A | Rated voltage (Use group B / UL 1059) (Power) | 300 V |
| Rated voltage (Use group C / UL 1059) (Power) | 300 V | Rated voltage (Use group D / UL 1059) (Power) | 300 V |
| Rated voltage for surge voltage class / pollution degree II/2 (Power) | 630 V | Rated voltage for surge voltage class / pollution degree III/2 (Power) | 500 V |
| Rated voltage for surge voltage class / pollution degree III/3 (Power) | 400 V | Rated impulse voltage for surge voltage class/ pollution degree II/2 (Power) | 4 kV |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 (Power) | 4 kV | Rated impulse voltage for surge voltage class/ pollution degree III/3 (Power) | 4 kV |
| Volume resistance (Power) | ≤5 mΩ | Creepage distance, min. (Power) | 7.09 mm |
| Clearance distance, min. (Power) | 6.5 mm | Solder pin length (Power) | 3.2 mm |
| Solder pin dimensions (Power) | 1.0 x 1.0 mm | Tolerance of the diameter of the solder eyelet (Power) | + 0,1 mm |
| Diameter of solder eyelet (Power) | 1.4 mm | Outside diameter of solder pad (Power) | 2.3 mm |
| Template aperture diameter (Power) | 2.1 mm | | |

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Technical data

Technical data - hybrid (signal)

| | | | |
|--|--------------|--|----------|
| Number of poles (Signal) | 4 | Number of solder pins per pole (Signal) | 1 |
| Contact material (Signal) | CuMg | Contact surface (Signal) | tinned |
| Rated current (Use group B / UL 1059) (Signal) | 14 A | Rated current (Use group D / UL 1059) (Signal) | 10 A |
| Rated current, min. number of poles (Tu=20°C) (Signal) | 26.8 A | Rated current, max. number of poles (Tu=20°C) (Signal) | 19.7 A |
| Rated current, min. number of poles (Tu=40°C) (Signal) | 23.1 A | Rated current, max. number of poles (Tu=40°C) (Signal) | 16.9 A |
| Rated voltage (Use group B / UL 1059) (Signal) | 300 V | Rated voltage (Use group D / UL 1059) (Signal) | 300 V |
| Rated voltage for surge voltage class / pollution degree II/2 (Signal) | 400 V | Rated voltage for surge voltage class / pollution degree III/2 (Signal) | 320 V |
| Rated voltage for surge voltage class / pollution degree III/3 (Signal) | 250 V | Rated impulse voltage for surge voltage class/ pollution degree II/2 (Signal) | 4 kV |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 (Signal) | 4 kV | Rated impulse voltage for surge voltage class/ pollution degree III/3 (Signal) | 4 kV |
| Volume resistance (Signal) | ≤5 mΩ | Creepage distance, min. (Signal) | 5.4 mm |
| Clearance distance, min. (Signal) | 4 mm | Solder pin length (Signal) | 3.2 mm |
| Solder pin dimensions (Signal) | 1.0 x 1.0 mm | Tolerance of the diameter of the solder eyelet (Signal) | + 0,1 mm |
| Diameter of solder eyelet (Signal) | 1.4 mm | Outside diameter of solder pad (Signal) | 2.3 mm |
| Template aperture diameter (Signal) | 2.1 mm | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | EC002637 |
| ECLASS 9.0 | 27-44-04-02 | ECLASS 9.1 | 27-44-04-02 |
| ECLASS 10.0 | 27-44-04-02 | ECLASS 11.0 | 27-46-02-01 |
| ECLASS 12.0 | 27-46-03-01 | ECLASS 13.0 | 27-46-03-01 |

Environmental Product Compliance

REACH SVHC /

Important note

| | |
|----------------|--|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |
| Notes | <ul style="list-style-type: none"> Rated current related to rated cross-section & min. No. of poles. P on drawing = pitch Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. Diameter of solder eyelet D = 1.4+0.1mm In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months |

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Downloads

Approval/Certificate/Document of Con-
formity

[Declaration of the Manufacturer](#)

Engineering Data

[CAD data – STEP](#)

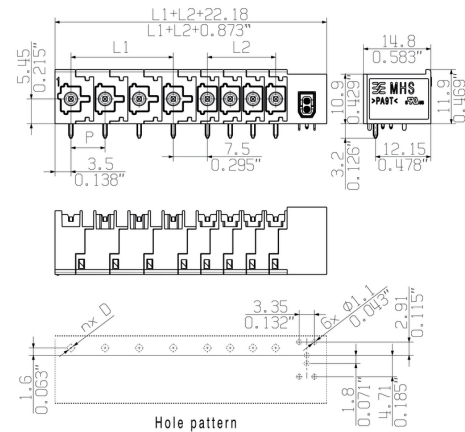
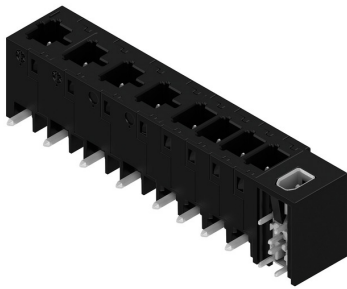
Catalogues

[Catalogues in PDF-format](#)

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Drawings**Product image**

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