

## D-SUB "US" 9M-EW



Image is for illustration purposes only. Please refer to product description.

|                    |   |
|--------------------|---|
| Part number        | 09 68 163 5812  |
| Specification      | D-SUB "US" 9M-EW  |
| HARTING eCatalogue | <a href="https://b2b.harting.com/09681635812">https://b2b.harting.com/09681635812</a> |

### Identification

|                            |                   |
|----------------------------|-------------------|
| Category                   | Connectors        |
| Series                     | D-Sub             |
| Identification             | Standard          |
| Element                    | Connector         |
| Specification              | U.S. Footprint    |
| Description of the contact | Stamped<br>Angled |

### Version

|                    |                                    |
|--------------------|------------------------------------|
| Termination method | Wave soldering termination         |
| Gender             | Male                               |
| Size               | D-Sub 1                            |
| Connection type    | Motherboard to daughtercard        |
| Number of contacts | 9                                  |
| further contacts   | With grounding pin                 |
| Termination length | 3.2 mm                             |
| PCB fixing         | With board locks                   |
| Locking type       | Fixing flange with thread 4-40 UNC |

### Technical characteristics

|                                    |         |
|------------------------------------|---------|
| Distance between rows              | 2.84 mm |
| Contact spacing (termination side) | 2.77 mm |
| Rated current                      | 6.5 A   |



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## Technical characteristics

|                                  |                           |
|----------------------------------|---------------------------|
| Clearance distance               | ≥1 mm                     |
| Creepage distance                | ≥1 mm                     |
| Insulation resistance            | >10 <sup>10</sup> Ω       |
| Contact resistance               | ≤10 mΩ                    |
| Tightening torque                | ≤0.6 Nm Female screw lock |
| Limiting temperature             | -55 ... +125 °C           |
| Insertion force                  | ≤30 N                     |
| Withdrawal force                 | ≥3.3 N<br>≤20 N           |
| Performance level                | NM 30 (S4)<br>1           |
| Mating cycles                    | ≥500                      |
| Test voltage U <sub>r.m.s.</sub> | 1 kV                      |
| Isolation group                  | IIIa (175 ≤ CTI < 400)    |
| PCB thickness                    | ≥1.6 mm                   |
| Installation height              | 6.3 mm                    |
| Hot plugging                     | No                        |

## Material properties

|   |   |
|---|---|
| Material (insert)                         | Thermoplastic resin, glass-fibre filled (PBTP)<br>Shell: Plated steel |
| Colour (insert)                           | Black   |
| Material (contacts)                       | Copper alloy  |
| Surface (contacts)                        | Noble metal over Ni   |
| Layer thickness                           | ≥0.76 µm  |
| Layer thickness                           | ≥30 µinch   |
| Material flammability class acc. to UL 94 | V-0   |
| RoHS                                      | compliant with exemption  |
| RoHS exemptions                           | 6(c): Copper alloy containing up to 4 % lead by weight                |
| ELV status                                | compliant with exemption  |
| China RoHS                                | 50  |
| REACH Annex XVII substances               | Not contained   |
| REACH ANNEX XIV substances                | Not contained   |
| REACH SVHC substances                     | Yes   |
| REACH SVHC substances                     | Lead  |



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## Material properties

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| ECHA SCIP number                     | ecef7555-f643-4ceb-a337-fc54762297f1 |
| California Proposition 65 substances | Yes                                  |
| California Proposition 65 substances | Antimony trioxide                    |
| California Proposition 65 substances | Lead                                 |
| California Proposition 65 substances | Nickel                               |
| Requirement set with Hazard Levels   | R26                                  |

## Specifications and approvals

|                |                       |
|----------------|-----------------------|
| Specifications | DIN 41652             |
| UL / CSA       | UL 1977 ECBT2.E102079 |

## Commercial data

|                                |                        |
|--------------------------------|------------------------|
| Packaging size                 | 50                     |
| Net weight                     | 6.36 g                 |
| Country of origin              | China                  |
| European customs tariff number | 85366990               |
| GTIN                           | 5713140095588          |
| eCl@ss                         | 27440214 D-Sub coupler |