

# D SUB MA RA 15P "US"\_S4\_with grnd clip\_



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

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 68 263 5811                                                                |
| Specification      | D SUB MA RA 15P "US"_S4_with grnd clip_                                       |
| HARTING eCatalogue | <a href="https://harting.com/09682635811">https://harting.com/09682635811</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 2                      |
| Connection type    | Motherboard to daughtercard  |
| Number of contacts | 15                           |
| further contacts   | With grounding pin           |
| Termination length | 3.2 mm                       |
| PCB fixing         | With board locks             |
| Locking type       | Fixing flange with thread M3 |

## 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                  | ≤50 N                     |
| Withdrawal force                 | ≥4.5 N<br>≤33 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 | Lead                                 |
| Fire protection on railway vehicles  | EN 45545-2 (2020-08)                 |
| 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                     | 9.4 g                  |
| Country of origin              | China                  |
| European customs tariff number | 85366990               |
| GTIN                           | 5713140095687          |
| eCl@ss                         | 27440214 D-Sub coupler |
| ETIM                           | EC001136               |
| UNSPSC 24.0                    | 39121469               |