

# D SUB IP 67 MA ANG\_PCB\_09P\_S4\_METAL FRAM

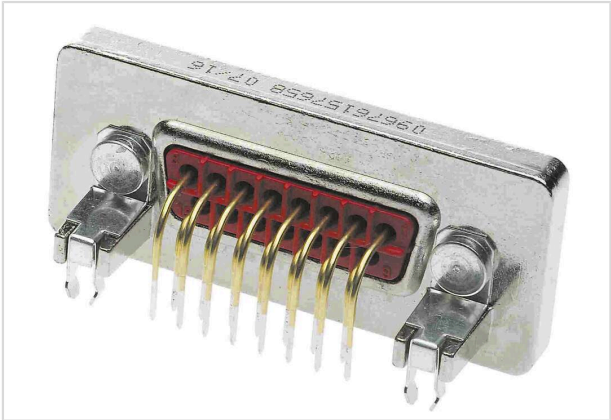


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 67 609 9658                                                                |
| Specification      | D SUB IP 67 MA<br>ANG_PCB_09P_S4_METAL FRAM                                   |
| HARTING eCatalogue | <a href="https://harting.com/09676099658">https://harting.com/09676099658</a> |

## Identification

|                            |                  |
|----------------------------|------------------|
| Category                   | Connectors       |
| Series                     | D-Sub            |
| Identification             | IP67             |
| Element                    | Connector        |
| Specification              | With rear frame  |
| Description of the contact | Turned<br>Angled |

## Version

|                    |                              |
|--------------------|------------------------------|
| Termination method | Wave soldering termination   |
| Gender             | Male                         |
| Size               | D-Sub 1                      |
| Number of contacts | 9                            |
| further contacts   | With grounding pin           |
| PCB fixing         | With board locks             |
| Locking type       | Fixing flange with thread M3 |

## Technical characteristics

|                                    |         |
|------------------------------------|---------|
| Distance between rows              | 2.54 mm |
| Contact spacing (termination side) | 2.74 mm |
| Rated current                      | 5 A     |
| Clearance distance                 | ≥1 mm   |
| Creepage distance                  | ≥1 mm   |



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## Technical characteristics

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| Insulation resistance                  | $> 5 \times 10^9 \Omega$             |
| Contact resistance                     | $\leq 25 \text{ m}\Omega$            |
| Tightening torque                      | 0.4 ... 0.6 Nm Female screw lock     |
| Limiting temperature                   | -25 ... +70 °C                       |
| Performance level                      | NM 30 (S4)<br>1                      |
| Mating cycles                          | $\geq 500$                           |
| Degree of protection acc. to IEC 60529 | IP67                                 |
| Test voltage $U_{r.m.s.}$              | 1.2 kV                               |
| Isolation group                        | IIIa ( $175 \leq \text{CTI} < 400$ ) |
| PCB thickness                          | 1.6 mm                               |
| Installation height                    | 7.3 mm                               |
| Hot plugging                           | No                                   |

## Material properties

|                                           |                                                                     |
|-------------------------------------------|---------------------------------------------------------------------|
| Material (insert)                         | Thermoplastic resin, glass-fibre filled<br>Shell: brass, tin plated |
| Colour (insert)                           | Red                                                                 |
| Material (contacts)                       | Copper alloy                                                        |
| Surface (contacts)                        | Noble metal over Ni                                                 |
| Layer thickness                           | $\geq 0.76 \mu\text{m}$                                             |
| Layer thickness                           | $\geq 30 \mu\text{inch}$                                            |
| Material (seal)                           | Silicone                                                            |
| Colour (seal)                             | Red                                                                 |
| Material                                  | Zinc die-cast, nickel-plated                                        |
| 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                                 |
|                                      | Nickel                               |

## Specifications and approvals

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

## Commercial data

|                                |                        |
|--------------------------------|------------------------|
| Packaging size                 | 50                     |
| Net weight                     | 27.52 g                |
| Country of origin              | Germany                |
| European customs tariff number | 85366990               |
| GTIN                           | 5713140094703          |
| eCl@ss                         | 27440214 D-Sub coupler |
| ETIM                           | EC001136               |
| UNSPSC 24.0                    | 39121469               |