

## D-Sub M 3W3C ANG MA 20A UNC NM30 BL



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

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 69 200 9006                                                                |
| Specification      | D-Sub M 3W3C ANG MA 20A UNC NM30 BL                                           |
| HARTING eCatalogue | <a href="https://harting.com/09692009006">https://harting.com/09692009006</a> |

### Identification

|                            |                  |
|----------------------------|------------------|
| Category                   | Connectors       |
| Series                     | D-Sub            |
| Identification             | Mixed            |
| Element                    | Connector        |
| Description of the contact | Turned<br>Angled |

### Version

|                           |                                    |
|---------------------------|------------------------------------|
| Termination method        | Wave soldering termination         |
| Gender                    | Male                               |
| Size                      | D-Sub 2                            |
| Number of contacts        | 3                                  |
| Number of signal contacts | 0                                  |
| Number of power contacts  | 3                                  |
| Coding                    | With coding                        |
| PCB fixing                | With frame<br>With board locks     |
| Locking type              | Fixing flange with thread 4-40 UNC |

### Technical characteristics

|                                |                          |
|--------------------------------|--------------------------|
| Flange height                  | 7.3 mm                   |
| Rated current (power)          | 20 A                     |
| Insulation resistance          | $>10^5 \Omega$           |
| Contact resistance, power area | $\leq 1 \text{ m}\Omega$ |



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## Technical characteristics

|                           |                               |
|---------------------------|-------------------------------|
| Tightening torque         | ≤0.6 Nm Female screw lock     |
| Limiting temperature      | -55 ... +125 °C               |
| Performance level         | NM 30 (S4)<br>1               |
| Mating cycles             | ≥500                          |
| Test voltage $U_{r.m.s.}$ | 1 kV                          |
| Isolation group           | IIIa ( $175 \leq CTI < 400$ ) |
| PCB thickness             | 1.6 mm                        |
| Hot plugging              | No                            |

## Material properties

|                                           |                                                                                                                                                                      |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material (insert)                         | Thermoplastic resin, glass-fibre filled (PBT)<br>Shell: steel, tin plated                                                                                            |
| Colour (insert)                           | Black                                                                                                                                                                |
| Material (contacts)                       | Copper alloy                                                                                                                                                         |
| Surface (contacts)                        | Gold plated Mating side<br>Sn over Ni Termination side                                                                                                               |
| 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(a)-I: Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight<br>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                                                                                                                                                                 |
| ECHA SCIP number                          | ecef7555-f643-4ceb-a337-fc54762297f1                                                                                                                                 |
| California Proposition 65 substances      | Yes                                                                                                                                                                  |
| California Proposition 65 substances      | Lead<br>Nickel                                                                                                                                                       |
| Fire protection on railway vehicles       | EN 45545-2 (2020-08) + A1 (2023-10)                                                                                                                                  |



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Material properties

Requirement set with Hazard Levels R26

Specifications and approvals

|                |                               |
|----------------|-------------------------------|
| Specifications | DIN 41652-1<br>CECC 75301-802 |
| UL / CSA       | UL 1977 ECBT2.E102079         |

Commercial data

|                                |                        |
|--------------------------------|------------------------|
| Packaging size                 | 50                     |
| Net weight                     | 18.2 g                 |
| Country of origin              | Germany                |
| European customs tariff number | 85366990               |
| GTIN                           | 5713140097407          |
| eCl@ss                         | 27440214 D-Sub coupler |
| ETIM                           | EC001136               |
| UNSPSC 24.0                    | 39121469               |