



|   |                           |  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
|---|---------------------------|--|-------------------|--------------------|-------------------|-----------------|-----------------|-------------------------------|------|------|----------|------|------|--|
| Number of contacts                            | Standard                  | 3  | 4                 | 5                  | 5                 | 6               | 7               | 7                             | 8    | 12   | 14       | 14   | 19   |  |
| Contact arrangement                           | IEC 61076-2-106           | 03-a   | 04-a              | 05-a               | 05-b              | 06-a            | 07-a            | 07-b                          | 08-a | 12-a | 14-a     | 14-b | 19-a |  |
| Contact arrangement                           | IEC 60130-9 <sup>1)</sup> | yes  | no                | yes                | no                | yes             | no              | yes                           | no   |      |          |      |      |  |
| Rated voltage <sup>2)</sup>                   | IEC 60664-1               | 300 V<br>(100 V)   | 300 V<br>(63 V)   | 100 V<br>(32 V)    | 300 V<br>(63 V)   | 100 V<br>(32 V) | 150 V<br>(32 V) | 60 V<br>(32 V)                |      |      |          |      |      |  |
| Rated voltage                                 | UL 1977                   | 250V   |                   |                    |                   |                 |                 | 60V                           |      |      |          |      |      |  |
| Rated impulse withstand voltage <sup>2)</sup> | IEC 60664-1               | 1500 V<br>(1500 V)   | 1200 V<br>(800 V) | 1500 V<br>(1500 V) | 1200 V<br>(800 V) |                 |                 |                               |      |      |          |      |      |  |
| Pollution degree <sup>2)</sup>                | IEC 60664-1               | 1 (2)  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Installation category                         | IEC 60664-1               | I  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Insulation group                              | IEC 60664-1               | II, 400 ≤ CTI < 600  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Current rating                                | IEC 60512-5-2<br>UL 1977  | 10A/+40°C  |                   |                    | 7A/+40°C          |                 |                 |                               |      |      | 3A/+40°C |      |      |  |
| Insulation resistance                         | IEC 60512-3-1             | >10 <sup>10</sup> Ohm <sup>3)</sup>                        |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Contact resistance                            | IEC 60512-2-1             | <5mOhm   |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Climatic category                             | IEC 60668-1               | 40 / 100 / 56  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Temperatur range                              | IEC 60668-1               | -40°C...+100°C / -40°F...+212°F                            |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| IP degree                                     | IEC 60529                 | IP 40  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| Insertion and withdrawal force                | IEC 60512-13-2            | 25N  | 30N               | 35N                | 35N               | 50N             | 55N             | 55N                           | 60N  | 50N  | 50N      | 50N  | 60N  |  |
| mechanical operation                          | IEC 60512-9-1             | Silver ≥500 mating cycles / Gold ≥1000 mating cycles       |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| housing material                              |                           | brass and / or zinc die cast, nickel plated or thermoplast |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| dielectric material                           |                           | thermoplastic  |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| contacts                                      |                           | silver or gold plated                                      |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| termination technique                         |                           | solder   |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| wire gauge                                    |                           | ≤0,5mm <sup>2</sup> / 20 AWG                               |                   |                    |                   |                 |                 | ≤0,35mm <sup>2</sup> / 22 AWG |      |      |          |      |      |  |
| flamability                                   |                           | UL 94 VO   |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |
| locking system                                |                           | metal screw coupling; tightening torque 0,7 - 1,5 Nm       |                   |                    |                   |                 |                 |                               |      |      |          |      |      |  |

Gewicht (errechnet) / Calc WT: 0,027 kg  
 Prüfmaß / Testdimension  
 Teileindex / Partindexnumber:  
 Bagatelle change:

Zul. Abw./Tolerances:  
 ISO 2768-c  
 DIN / ISO 13715

Maßstab / Scale: 2:1  
 A3  
**CUSTOMER DRAWING**

Gez. 10.12.2020  
 Drawn MCARLE  
 Status Released  
 Gepr. 23.02.2021  
 Checked MBERTSCH

**Amphenol Tuchel Industrial GmbH**

Male cable connector  
 for cable diameter 4-6mm  
 M HA T 3XXX 004+024+048  
 Blatt / Sheet U1  
 1 Bl.

01 202000083 05.02.2021 MCARL  
 Index Änderung / Description Datum / Date Name

Ers. f. / Replacement for:

Ers. f. / Replacement for:

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<sup>1)</sup> Edition 2000-05  
<sup>2)</sup> values in brackets are according to DIN EN 61076-2-106  
<sup>3)</sup> under operating conditions >10<sup>9</sup> Ohm  
 Do not connect or disconnect under load Metal housing parts shall be securely incorporated to protected ground  
 Remark for gold plated contacts:  
 In order to avoid brittle inter-metallic connections, gold plated terminals have to be tin-plated in the solder area.  
 All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding, particularly the information does not constitute or provide any legal guaranties ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

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