



Assembly instruction see N 22 091 0025

|   |                                 |                                |  |      |       |          |       |       |                               |      |          |      |      |      |
|---|---------------------------------|--------------------------------|--|------|-------|----------|-------|-------|-------------------------------|------|----------|------|------|------|
| D | 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 |
|   | Rated voltage                   | IEC 60664-1                    | 150 V  |      | 100 V | 32 V     | 100 V |       | 32 V                          |      |          |      |      |      |
|   | Rated impulse withstand voltage | IEC 60664-1                    | 1500 V   |      | 800 V | 1500 V   |       | 800 V |                               |      |          |      |      |      |
|   | Pollution degree                | IEC 60664-1                    | 3 <sup>1)</sup>                                      |      |       |          |       |       |                               |      |          |      |      |      |
|   | 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 |      |      |      |
| C | Insulation resistance           | IEC 60512-3-1                  | >10 <sup>10</sup> Ohm <sup>2)</sup>                  |      |       |          |       |       |                               |      |          |      |      |      |
|   | Contact resistance              | IEC 60512-2-1                  | <5mOhm   |      |       |          |       |       |                               |      |          |      |      |      |
|   | Climatic category               | IEC 60668-1                    | 40 / 100 / 21  |      |       |          |       |       |                               |      |          |      |      |      |
|   | Temperatur range                | IEC 60668-1                    | -40°C...+100°C / -40°F...+212°F                      |      |       |          |       |       |                               |      |          |      |      |      |
|   | Salt spray resistance           | DIN IEC<br>60068-2-11, test Ka | 720h   |      |       |          |       |       |                               |      |          |      |      |      |
|   | IP degree                       | IEC 60529                      | IP69K / IP 68 (in mated condition)                   |      |       |          |       |       |                               |      |          |      |      |      |
|   | Insertion and withdrawal force  | IEC 60512-13-2                 | 25N  | 30N  | 35N   | 35N      | 50N   | 55N   | 55N                           | 60N  | 50N      | 50N  | 50N  | 60N  |
| B | mechanical operation            | IEC 60512-9-1                  | Silver ≥500 mating cycles / Gold ≥1000 mating cycles |      |       |          |       |       |                               |      |          |      |      |      |
|   | housing material                |                                | brass and / or zinc die cast, nickel plated          |      |       |          |       |       |                               |      |          |      |      |      |
|   | dielectric material             |                                | thermoplastic  |      |       |          |       |       |                               |      |          |      |      |      |
|   | sealing material                |                                | Chloroprene  |      |       |          |       |       |                               |      |          |      |      |      |
|   | 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 V0   |      |       |          |       |       |                               |      |          |      |      |      |
|   | locking system                  | DIN EN 61076-2-106             | metal screw coupling, tightening torque 0,7 - 1,5 Nm |      |       |          |       |       |                               |      |          |      |      |      |

<sup>1)</sup> designed according pollution degree 2, can be used under pollution degree 3 if the rules according IEC 60664-1 are fulfilled

<sup>2)</sup> under operating conditions >10<sup>8</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 ("Beschaffungsgarantie" or "Haltbarkeitsgarantie").

|  |              |                     |                     |
|--|--------------|---------------------|---------------------|
|  | 19<br>(19-a) | C091 31D019 102 4 U | C091 31D019 202 4 U |
|  | 14<br>(14-b) | C091 31D114 102 4 U | C091 31D114 202 4 U |
|  | 14<br>(14-a) | C091 31D014 102 4 U | C091 31D014 202 4 U |
|  | 12<br>(12-a) | C091 31D012 102 4 U | C091 31D012 202 4 U |
|  | 8<br>(08-a)  | C091 31D008 102 4 U | C091 31D008 202 4 U |
|  | 7<br>(07-b)  | C091 31D107 102 4 U | C091 31D107 202 4 U |
|  | 7<br>(07-a)  | C091 31D007 102 4 U | C091 31D007 202 4 U |
|  | 6<br>(06-a)  | C091 31D006 102 4 U | C091 31D006 202 4 U |
|  | 5<br>(05-b)  | C091 31D105 102 4 U | C091 31D105 202 4 U |
|  | 5<br>(05-a)  | C091 31D005 102 4 U | C091 31D005 202 4 U |
|  | 4<br>(04-a)  | C091 31D004 102 4 U | C091 31D004 202 4 U |
|  | 3<br>(03-a)  | C091 31D003 102 4 U | C091 31D003 202 4 U |

|  |   |   |   |
|--|---|---|---|
| Contact arrangement<br>View on mating side | Number of contacts<br>(Contact arrangement<br>acc. IEC 61076-2-106) | Part number<br>with silver plated<br>contacts | Part number<br>with gold plated<br>contacts |
|--|---|---|---|

|   |                       |                          |    |  |
|---|-----------------------|--------------------------|----|--|
| Gewicht (errechnet) / Calc WT: 0,051 kg | Zul. Abw./Tolerances: | Maßstab / Scale: 2:1 2:1 | A3 |  |
| Prüfmaß / Testdimension                 | ISO 2768-c            | CUSTOMER DRAWING         |    |  |
| Teileindex / Partindexnumber:           |                       |                          |    |  |
| Bagatelle change:                       |                       |                          |    |  |

|         |            |  |
|---------|------------|--|
| Gez.    | 26.05.2020 | Female cable connector<br>for cable diameter 8-10,5 mm |
| Drawn   | MCARLE     |  |
| Status  | Released   |  |
| Gepr.   | 11.01.2021 |  |
| Checked | MBERTSCH   |  |

|  |                        |                       |                    |
|--|------------------------|-----------------------|--------------------|
| <b>Amphenol Tuchel Industrial GmbH</b>                 |                        | M C091 31DXXX X02 4 U | Blatt / Sheet<br>1 |
| 03   | 202000083              | 26.10.2020            | MCARL              |
| Index  | Änderung / Description | Datum / Date          | Name               |
| Ers. f. / Replacement for: M-C091 31DXXX X02 4 U Rev02 |                        | 1 Bl.                 |                    |

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