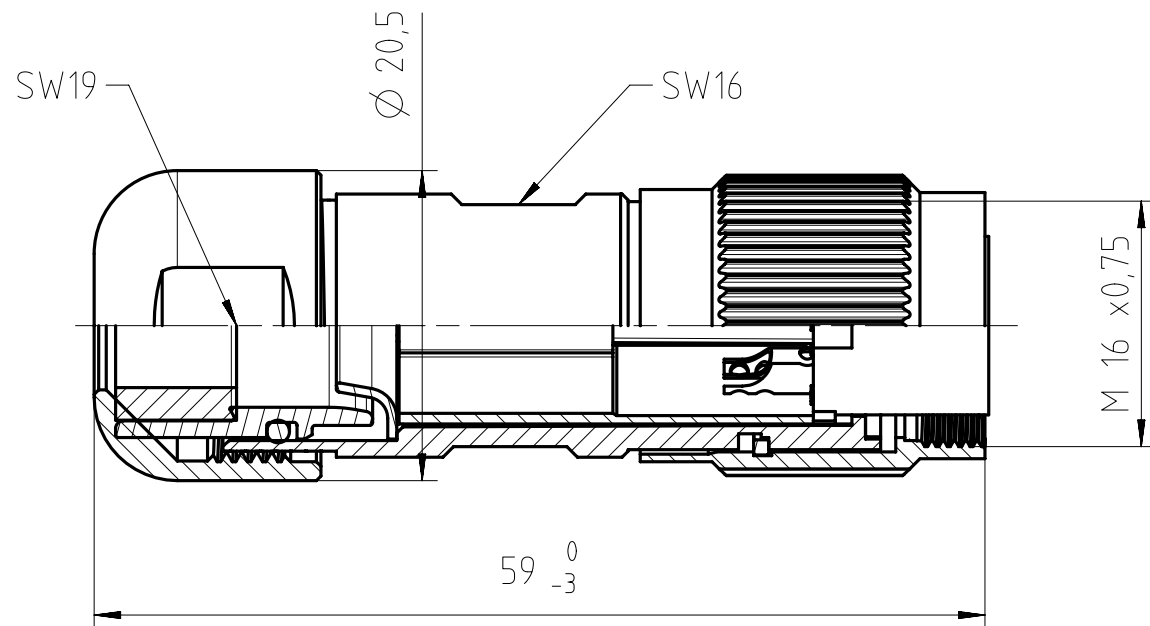


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Assembly instruction see N 22 091 0025

|                       |                                 |                                |                                                      |               |          |       |        |      |       |      |                   |      |      |      |
|-----------------------|---------------------------------|--------------------------------|------------------------------------------------------|---------------|----------|-------|--------|------|-------|------|-------------------|------|------|------|
| 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>n</sup>                                       |               |          |       |        |      |       |      |                   |      |      |      |
|                       | Installation category           | IEC 60664-1                    | I                                                    |               |          |       |        |      |       |      |                   |      |      |      |
| C                     | 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>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  |
|                       | mechanical operation            | IEC 60512-9-1                  | Silver ≥500 mating cycles / Gold ≥1000 mating cycles |               |          |       |        |      |       |      |                   |      |      |      |
|                       | housing material                |                                | brass and / or zinc die cast, nickel plated          |               |          |       |        |      |       |      |                   |      |      |      |
|                       | B                               | dielectric material            |                                                      | thermoplastic |          |       |        |      |       |      |                   |      |      |      |
| sealing material      |                                 |                                | Chloroprene                                          |               |          |       |        |      |       |      |                   |      |      |      |
| contacts              |                                 |                                | silver or gold plated                                |               |          |       |        |      |       |      |                   |      |      |      |
| termination technique |                                 |                                | solder                                               |               |          |       |        |      |       |      |                   |      |      |      |
| wire gauge            |                                 |                                | ≤0,5mm² / 20 AWG                                     |               |          |       |        |      |       |      | ≤0,35mm² / 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 ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

|                                            |                                                                     |                                               |                                             |
|--------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|
|                                            | 19<br>(19-a)                                                        | C091 31D019 101 4 U                           | C091 31D019 201 4 U                         |
|                                            | 14<br>(14-b)                                                        | C091 31D114 101 4 U                           | C091 31D114 201 4 U                         |
|                                            | 14<br>(14-a)                                                        | C091 31D014 101 4 U                           | C091 31D014 201 4 U                         |
|                                            | 12<br>(12-a)                                                        | C091 31D012 101 4 U                           | C091 31D012 201 4 U                         |
|                                            | 8<br>(08-a)                                                         | C091 31D008 101 4 U                           | C091 31D008 201 4 U                         |
|                                            | 7<br>(07-b)                                                         | C091 31D107 101 4 U                           | C091 31D107 201 4 U                         |
|                                            | 7<br>(07-a)                                                         | C091 31D007 101 4 U                           | C091 31D007 201 4 U                         |
|                                            | 6<br>(06-a)                                                         | C091 31D006 101 4 U                           | C091 31D006 201 4 U                         |
|                                            | 5<br>(05-b)                                                         | C091 31D105 101 4 U                           | C091 31D105 201 4 U                         |
|                                            | 5<br>(05-a)                                                         | C091 31D005 101 4 U                           | C091 31D005 201 4 U                         |
|                                            | 4<br>(04-a)                                                         | C091 31D004 101 4 U                           | C091 31D004 201 4 U                         |
|                                            | 3<br>(03-a)                                                         | C091 31D003 101 4 U                           | C091 31D003 201 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

Prüfmaß / Testdimension

Teileindex / Partindexnumber:

Bagatelle change:

Zul. Abw./Tolerances:

ISO 2768-c

Gez. 26.05.2020

Drawn MCARLE

Status Released

Gepr. 11.01.2021

Checked MBERTSCH

Amphenol Tuchel

Industrial GmbH

Maßstab / Scale: 2:1 2:1

A3

CUSTOMER DRAWING

Female cable connector  
for cable diameter 6-8 mm

M C091 31DXXX X01 4 U

Ers. f. / Replacement for: M-C091 31DXXX X01 4 U Rev02

FAI2020-001721

NXM-V02

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