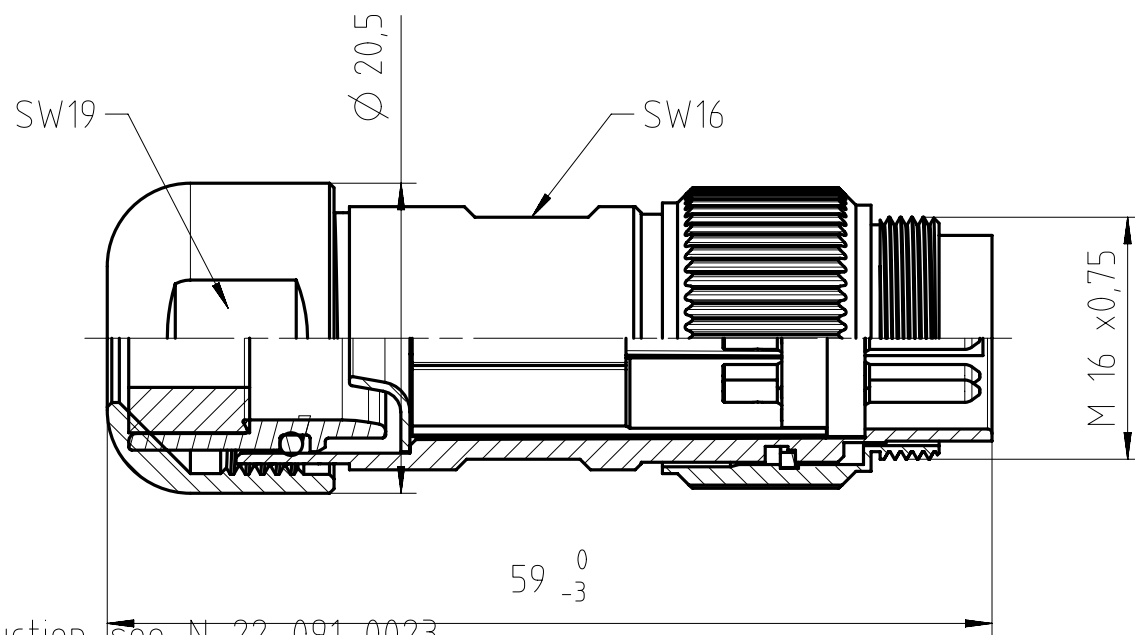


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Assembly instruction see N 22 091 0023

|                                 |                                |                                                      |      |          |       |        |      |       |      |                   |      |      |      |
|---------------------------------|--------------------------------|------------------------------------------------------|------|----------|-------|--------|------|-------|------|-------------------|------|------|------|
| 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                                                    |      |          |       |        |      |       |      |                   |      |      |      |
| 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          |      |          |       |        |      |       |      |                   |      |      |      |
| 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

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 31H019 100 4 U                           | C091 31H019 200 4 U                         |
|                                            | 14<br>(14-b)                                                        | C091 31H114 100 4 U                           | C091 31H114 200 4 U                         |
|                                            | 14<br>(14-a)                                                        | C091 31H014 100 4 U                           | C091 31H014 200 4 U                         |
|                                            | 12<br>(12-a)                                                        | C091 31H012 100 4 U                           | C091 31H012 200 4 U                         |
|                                            | 8<br>(08-a)                                                         | C091 31H008 100 4 U                           | C091 31H008 200 4 U                         |
|                                            | 7<br>(07-b)                                                         | C091 31H107 100 4 U                           | C091 31H107 200 4 U                         |
|                                            | 7<br>(07-a)                                                         | C091 31H007 100 4 U                           | C091 31H007 200 4 U                         |
|                                            | 6<br>(06-a)                                                         | C091 31H006 100 4 U                           | C091 31H006 200 4 U                         |
|                                            | 5<br>(05-b)                                                         | C091 31H105 100 4 U                           | C091 31H105 200 4 U                         |
|                                            | 5<br>(05-a)                                                         | C091 31H005 100 4 U                           | C091 31H005 200 4 U                         |
|                                            | 4<br>(04-a)                                                         | C091 31H004 100 4 U                           | C091 31H004 200 4 U                         |
|                                            | 3<br>(03-a)                                                         | C091 31H003 100 4 U                           | C091 31H003 200 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: 0,05 kg |                      |            |       | Zul. Abw./Tolerances:              |            | Maßstab / Scale : 2:1                                   |  | A3 |  |  |  |
| Prüfmaß / Testdimension                |                      |            |       |                                    |            | CUSTOMER DRAWING                                        |  |    |  |  |  |
| Teileindex / Partindexnumber:          |                      |            |       | ISO 2768-c                         |            |                                                         |  |    |  |  |  |
| Bagatelle change:                      |                      |            |       |                                    |            |                                                         |  |    |  |  |  |
|                                        |                      |            |       | Gez.                               | 26.05.2020 | Male cable connector<br>for cable diameter 4-6 mm       |  |    |  |  |  |
|                                        |                      |            |       | Drawn                              | MCARLE     |                                                         |  |    |  |  |  |
|                                        |                      |            |       | Status                             | Released   |                                                         |  |    |  |  |  |
|                                        |                      |            |       | Gepr.                              | 11.01.2021 |                                                         |  |    |  |  |  |
|                                        |                      |            |       | Checked                            | MBERTSCH   | M C091 31HXXX X00 4 U                                   |  |    |  |  |  |
|                                        |                      |            |       | Amphenol Tuchel<br>Industrial GmbH |            |                                                         |  |    |  |  |  |
|                                        |                      |            |       |                                    |            |                                                         |  |    |  |  |  |
|                                        |                      |            |       |                                    |            |                                                         |  |    |  |  |  |
| 03                                     | 202000083            | 26.10.2020 | MCARL |                                    |            | Blatt/ Sheet<br>1                                       |  |    |  |  |  |
| Index                                  | Änderung/Description | Datum/Date | Name  |                                    |            | 1 Bl.                                                   |  |    |  |  |  |
|                                        |                      |            |       |                                    |            | Ers. f. / Replacement for : M-C091 31HXXX X00 4 U Rev02 |  |    |  |  |  |

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