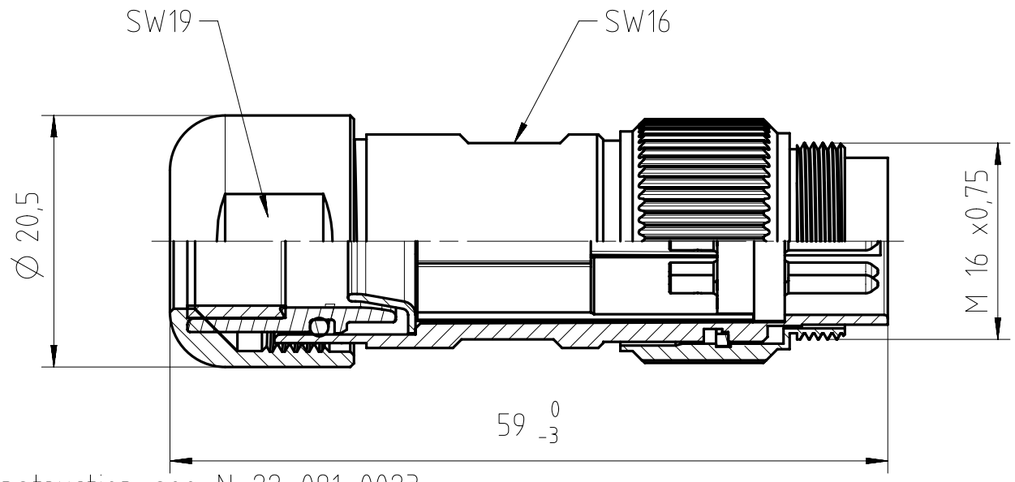
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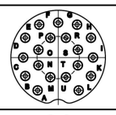
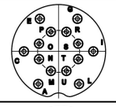
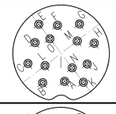
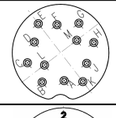
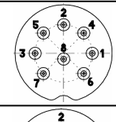
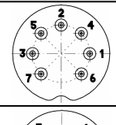
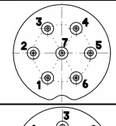
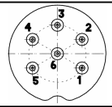
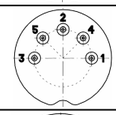
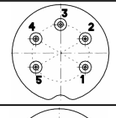
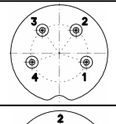
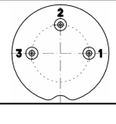



Assembly instruction see N 22 091 0023

| 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[1] | | | | | | | | | | | |
| Installation category | IEC 60664-1 | I | | | | | | | | | | | |
| Insulation group | IEC 60664-1 | II, 400 ≤ CTI < 600 | | | | | | | | | | | |
| Current rating | IEC 60512-5-2 UL 1977 | 10A/+40°C | | | 7A/+40°C | | | | | 3A/+40°C | | | |
| Insulation resistance | IEC 60512-3-1 | >$10^{10}$ Ohm[2] | | | | | | | | | | | |
| 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 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 | | | | | | | | | | | |

[1] designed according pollution degree 2, can be used under pollution degree 3 if the rules according IEC 60664-1 are fulfiled
[2] under operating conditions >$10^8$ Ohm

Do not connect or disconnect under load. Metal housing parts shall be securely incoporated 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 pratical usage of the product. Any product information is for descriptive usage only and not legally binding; particulary the information does not constitute or provide any legal guaranties ("Beschaffenheitsgarantie" or " Haltbarkeitsgarantie").

| Contact arrangement View on mating side | Number of contacts (Contact arrangement acc. IEC 61076-2-106) | Part number with silver plated contacts | Part number with gold plated contacts |
|---|---|---|---|
|  | 149 (19-a) | C091 31H019 102 4 U | C091 31H019 202 4 U |
|  | 14 (14-b) | C091 31H114 102 4 U | C091 31H114 202 4 U |
|  | 14 (14-a) | C091 31H014 102 4 U | C091 31H014 202 4 U |
|  | 12 (12-a) | C091 31H012 102 4 U | C091 31H012 202 4 U |
|  | 8 (08-a) | C091 31H008 102 4 U | C091 31H008 202 4 U |
|  | 7 (07-b) | C091 31H107 102 4 U | C091 31H107 202 4 U |
|  | 7 (07-a) | C091 31H007 102 4 U | C091 31H007 202 4 U |
|  | 6 (06-a) | C091 31H006 102 4 U | C091 31H006 202 4 U |
|  | 5 (05-b) | C091 31H105 102 4 U | C091 31H105 202 4 U |
|  | 5 (05-a) | C091 31H005 102 4 U | C091 31H005 202 4 U |
|  | 4 (04-a) | C091 31H004 102 4 U | C091 31H004 202 4 U |
|  | 3 (03-a) | C091 31H003 102 4 U | C091 31H003 202 4 U |

Gewicht (errechnet) / *Calc WT* : 0,05 kg
Prüfmaß / *Testdimension*
Teileindex / *Partindexnumber:*
*Bagatelle change:*

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

Maßstab / *Scale* : 2:1 | A3

# CUSTOMER DRAWING

| Index | Änderung/ *Description* | Datum/ *Date* | Name |
|---|---|---|---|
| 03 | 202000083 | 26.10.2020 | MCARL |

Gez. 26.05.2020
Drawn MCARLE
Status Released
Gepr. 11.01.2021
Checked MBERTSCH

**Amphenol Tuchel Industrial GmbH**

## Male cable connector
*for cable diameter 8-10,5 mm*

M C091 31HXXX X02 4 U

Blatt/ *Sheet* 1 / 1 Bl.

Ers. f. / *Replacement for* : M-C0901 31HXXX X02 4 U Rev02

FA2020-001734 | NXM-V02

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