



Assembly instruction see N 22 091 0023

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|---------------------------------|--------------------------------|--|----------|--------|-------|------|------|-------------------------------|----------|------|------|------|------|--|
| 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 | | ≤0,5mm ² / 20 AWG | | | | | | ≤0,35mm ² / 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 fulfilled
²⁾ under operating conditions >10⁸ 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 (19-a) | C091 31H019 101 4 U | C091 31H019 201 4 U |
| | 14 (14-b) | C091 31H114 101 4 U | C091 31H114 201 4 U |
| | 14 (14-a) | C091 31H014 101 4 U | C091 31H014 201 4 U |
| | 12 (12-a) | C091 31H012 101 4 U | C091 31H012 201 4 U |
| | 8 (08-a) | C091 31H008 101 4 U | C091 31H008 201 4 U |
| | 7 (07-b) | C091 31H107 101 4 U | C091 31H107 201 4 U |
| | 7 (07-a) | C091 31H007 101 4 U | C091 31H007 201 4 U |
| | 6 (06-a) | C091 31H006 101 4 U | C091 31H006 201 4 U |
| | 5 (05-b) | C091 31H105 101 4 U | C091 31H105 201 4 U |
| | 5 (05-a) | C091 31H005 101 4 U | C091 31H005 201 4 U |
| | 4 (04-a) | C091 31H004 101 4 U | C091 31H004 201 4 U |
| | 3 (03-a) | C091 31H003 101 4 U | C091 31H003 201 4 U |

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

| | | | | | | | | | |
|--------------------------------|------------------------|-----------------------|--------|-----------------------|--|--|--|--|--|
| Gewicht (errechnet) / Calc WT: | | Zul. Abw./Tolerances: | | Maßstab / Scale : 2:1 | | A3 | | | |
| Prüfmaß / Testdimension | | ISO 2768-c | | DIN / ISO 13715 | | CUSTOMER DRAWING | | | |
| Teileindex / Partindexnumber: | | | | | | | | | |
| Bagatelle change: | | | | | | Male cable connector for cable diameter 6-8 mm | | | |
| | | Gez. 26.05.2020 | | | | | | | |
| | | Drawn MCARLE | | | | | | | |
| | | Status Released | | | | | | | |
| | | Gepr. 11.01.2021 | | | | M C091 31HXXX X01 4 U | | | |
| | | Checked MBERTSCH | | | | | | | |
| | | | | | | Blatt / Sheet 1 Bl. | | | |
| | | | | | | | | | |
| 03 | 202000083 | 26.10.2020 | MCARLE | | | Ers. f. l. Replacement for : M-C091 31HXXX X01 4 U Rev02 | | | |
| Index | Änderung / Description | Datum / Date | Name | | | | | | |

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