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| | | | | | | | | | | | | | | | | |
|-----------------------|---|--------------------------------|--|------|----------------|----------|-----------------|------|-------------------------------|------|--------------|----------|--------------|------|-------------|--|
| 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 | | |
| C | Contact arrangement | IEC 60130-9 ⁿ | yes | | no | | yes | | no | | yes | | | | | |
| | Rated voltage ²⁾ | IEC 60664-1 | 300 V (100 V) | | 300 V (63 V) | | 100 V (32 V) | | 300 V (63 V) | | 100 V (32 V) | | 150 V (32 V) | | 60 V (32 V) | |
| | Rated voltage | UL 1977 | 250V | | | | | | | | 60V | | | | | |
| | Rated impulse withstand voltage ²⁾ | IEC 60664-1 | 1500 V (1500 V) | | 1200 V (800 V) | | 1500 V (1500 V) | | 1200 V (800 V) | | | | | | | |
| | Pollution degree ²⁾ | IEC 60664-1 | 1 (2) | | | | | | | | | | | | | |
| | 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 ³⁾ | | | | | | | | | | | | | |
| | Contact resistance | IEC 60512-2-1 | <5mOhm | | | | | | | | | | | | | |
| | Climatic category | IEC 60668-1 | 40 / 100 / 56 | | | | | | | | | | | | | |
| | Temperatur range | IEC 60668-1 | -40°C...+100°C / -40°F...+212°F | | | | | | | | | | | | | |
| | IP degree | IEC 60529 | IP 40 | | | | | | | | | | | | | |
| | B | 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 or thermoplast | | | | | | | | | | | | | |
| dielectric material | | | thermoplastic | | | | | | | | | | | | | |
| contacts | | | silver or gold plated | | | | | | | | | | | | | |
| termination technique | | | solder | | | | | | | | | | | | | |
| wire gauge | | | ≤0,5mm ² / 20 AWG | | | | | | ≤0,35mm ² / 22 AWG | | | | | | | |
| flamability | | | UL 94 VO | | | | | | | | | | | | | |
| locking system | | | bayonet | | | | | | | | | | | | | |

| | | | |
|--|---|------------------------|--------------------|
| | 19 (19-a) | Ag | T 3689 501 U |
| | | Au | T 3489 518 U |
| | 14 (14-b) | Ag | T 3669 501 U |
| | | Au | T 3669 518 U |
| | 14 (14-a) | Ag | T 3649 501 U |
| | | Au | T 3649 518 U |
| | 12 (12-a) | Ag | T 3629 501 U |
| | | Au | T 3629 518 U |
| | 8 (08-a) | Ag | T 3529 501 U |
| | | Au | T 3529 518 U |
| | 7 (07-b) | Ag | T 3449 501 U |
| | | Au | T 3449 518 U |
| | 7 (07-a) | Ag | T 3439 501 U |
| | | Au | T 3439 518 U |
| | 6 (6-a) | Ag | T 3429 501 U |
| | | Au | T 3429 518 U |
| | 5 (05-b) | Ag | T 3399 501 U |
| | | Au | T 3399 518 U |
| | 5 (05-a) | Ag | T 3379 501 U |
| | | Au | T 3379 518 U |
| | 4 (04-a) | Ag | T 3329 501 U |
| | | Au | T 3329 518 U |
| | 3 (03-a) | Ag | T 3279 501 U |
| | | Au | T 3279 518 U |
| | 2 (Pin 1+3) | Ag | T 3229 501 U |
| | | Au | T 3229 518 U |
| Contact arrangement View on mating side | Number of contacts (Contact arrangement acc. DIN EN 61076-2-106) | contact plating | Part number |

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| | | | | | | | |
|---|------------------------|--|-------|----------------------------|--|--|--|
| Gewicht (errechnet) / Calc WT: 0,017 kg | | 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 4-6mm | |
| | | Gez. 05.10.2017 | | | | | |
| | | Drawn MCARLE | | | | | |
| | | Status Released | | | | M HB T 3XX9 501+518 U | |
| | | Gepr. 17.02.2023 | | | | | |
| | | Checked MBERTSCH | | | | Blatt / Sheet 1 | |
| | | Amphenol Tuchel Industrial GmbH | | | | 1 Bl. | |
| 01 | 202300020 | 17.02.2023 | MCARL | Ers. f. / Replacement for: | | | |
| Index | Änderung / Description | Datum / Date | Name | | | | |

¹⁾ Edition 2000-05
²⁾ values in brackets are according to DIN EN 61076-2-106
³⁾ under operating conditions >10⁹ 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").