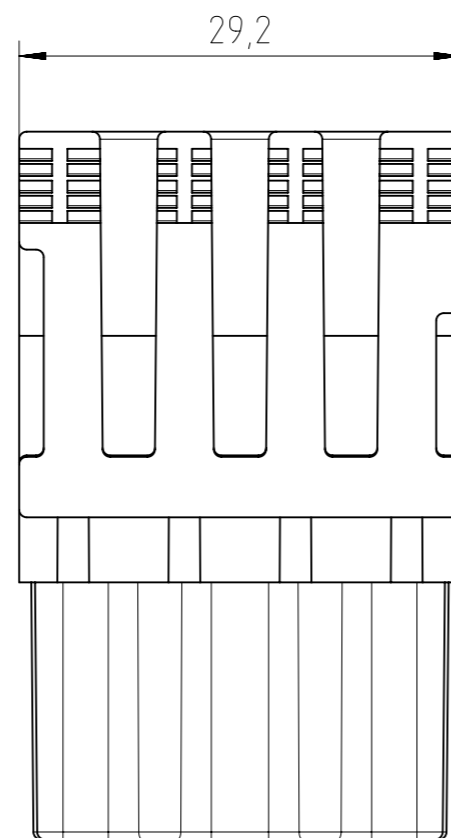
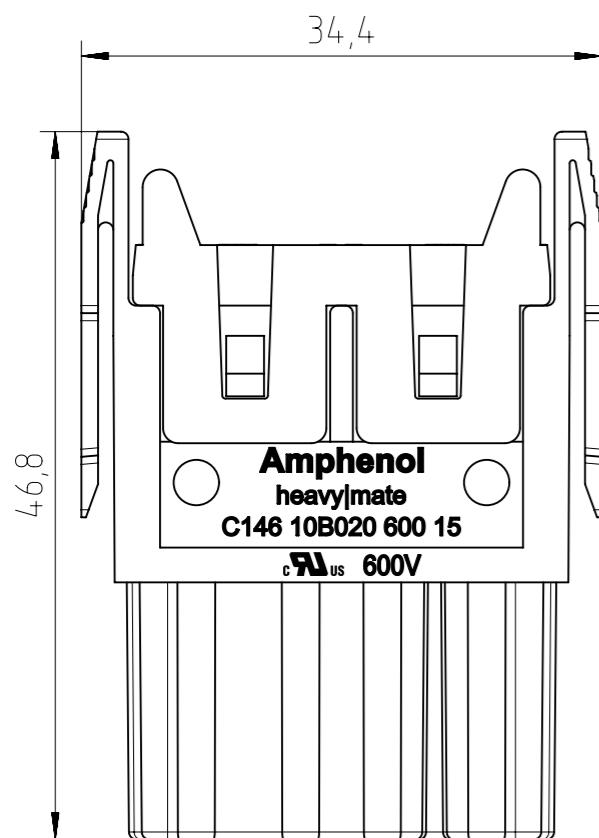
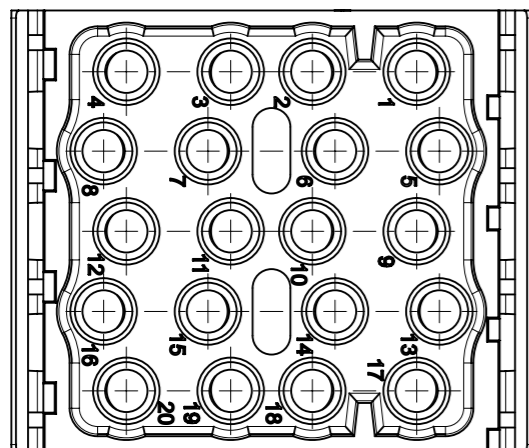
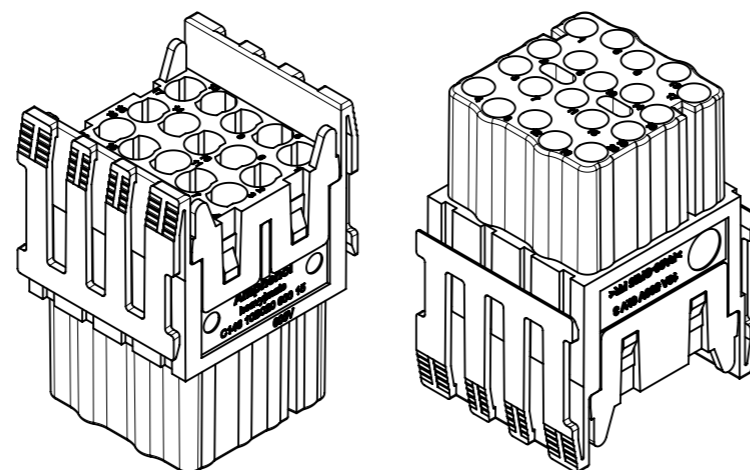


# Characteristics



| General Characteristics                | Standard        | Value   |
|--|-----------------|---|
| number of contacts                     |                 | 20  |
| termination technique                  |                 | crimp   |
| wire gauge                             |                 | 0,14 mm <sup>2</sup> - 4 mm <sup>2</sup><br>AWG 26 - AWG 12 |
| max. insulation diameter               |                 | 4,6 mm  |
| flammability                           | UL 94           | V-0   |
| Electrical Characteristics             | Standard        | Value   |
| rated voltage                          | IEC 60664-1     | 500 V (UL/CSA: 600 V)                                       |
| pollution degree                       | IEC 60664-1     | 3   |
| installation (overvoltage) category    | IEC 60664-1     | 3   |
| material group                         | IEC 60664-1     | 1   |
| rated impulse withstand voltage        | IEC 60664-1     | 6 kV  |
| rated current $T_{amb} = 40\text{ °C}$ |                 | 16 A  |
| current carrying capacity              | IEC 60512-5-2   | see derating curve  |
| contact resistance                     | IEC 60512-2-1   | ≤ 5 mΩ  |
| insulation resistance                  | IEC 60512-3-1   | ≥ 10 <sup>10</sup> Ω  |
| Climatical Characteristics             | Standard        | Value   |
| climatic category                      | IEC 60068-1     | 40 / 125 / 10   |
| upper temperature                      | IEC 60512-11-9  | +125 °C   |
| lower temperature                      | IEC 60512-11-10 | -40 °C  |
| Mechanical Characteristics             | Standard        | Value   |
| mechanical operation                   | IEC 60512-9-1   | ≥500 mating cycles  |
| Materials                              | Standard        | Value   |
| insert                                 |                 | PA-GF   |
| contacts                               |                 | CuZn (brass)  |
| contact plating                        |                 | Ag (silver)/Au (gold)                                       |
| color                                  |                 | black   |

|                                       |                        |                       |       |  |  |  |  |               |  |
|---------------------------------------|------------------------|-----------------------|-------|--|--|--|--|---------------|--|
| Gewicht (errechnet) / Calc WT: 22,9 g |                        | Zul. Abw./Tolerances: |       | Maßstab / Scale: 2:1 (1:1)                             |  | A3   |  |               |  |
| Prüfmaß / Testdimension               |                        | ISO 2768-m            |       | DIN / ISO 13715  |  | CUSTOMER DRAWING                             |  |               |  |
| Teileindex / Partindexnumber:         |                        |                       |       |  |  |  |  |               |  |
| Bagatelle change:                     |                        |                       |       |  |  | Buchsenmodul 20-Pol<br>socket module 20 pole |  |               |  |
|                                       |                        | Gez. 09.10.2015       |       | Drawn PWOELFFLE  |  |  |  |               |  |
|                                       |                        | Status Released       |       | Gepr. 08.09.2017                                       |  |  |  |               |  |
|                                       |                        | Checked MGRIMM        |       |  |  |  |  |               |  |
| 03                                    | 201700257              | 30.08.2017            | PWÖLF | <b>Amphenol Tuchel Industrial GmbH</b>                 |  | M C146 10B020 600 15                         |  | Blatt / Sheet |  |
| 02                                    | 201600736              | 27.10.2016            | PWÖLF |  |  |  |  | 1             |  |
| 01                                    | 201500704              | 09.10.2015            | PWÖLF |  |  |  |  | 1 Bl.         |  |
| Index                                 | Änderung / Description | Datum / Date          | Name  | Ers. f. / Replacement for: M-C146 10B020 500 15 Rev.01 |  |  |  |               |  |

Alle technischen Daten wurden unter Laborbedingungen ermittelt und können im Praxisbetrieb abweichen. Es handelt sich bei den Angaben weder um Beschaffenheits- noch um Haltbarkeitsgarantien. 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 guarantees ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

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NXM-V03