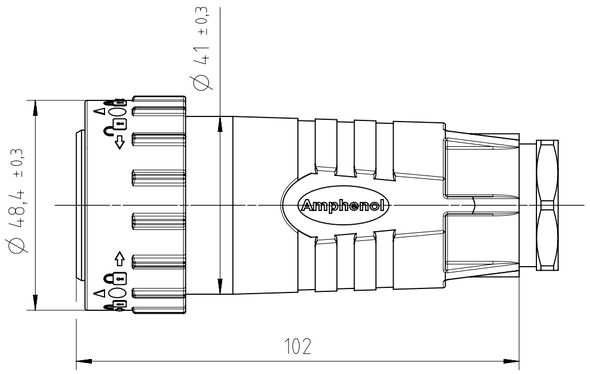
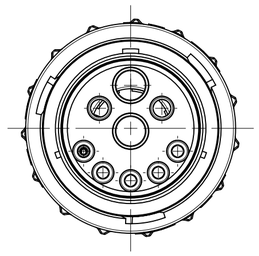
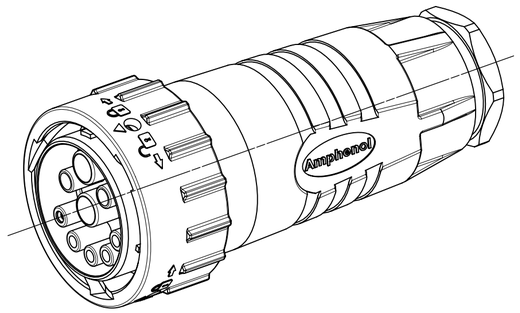
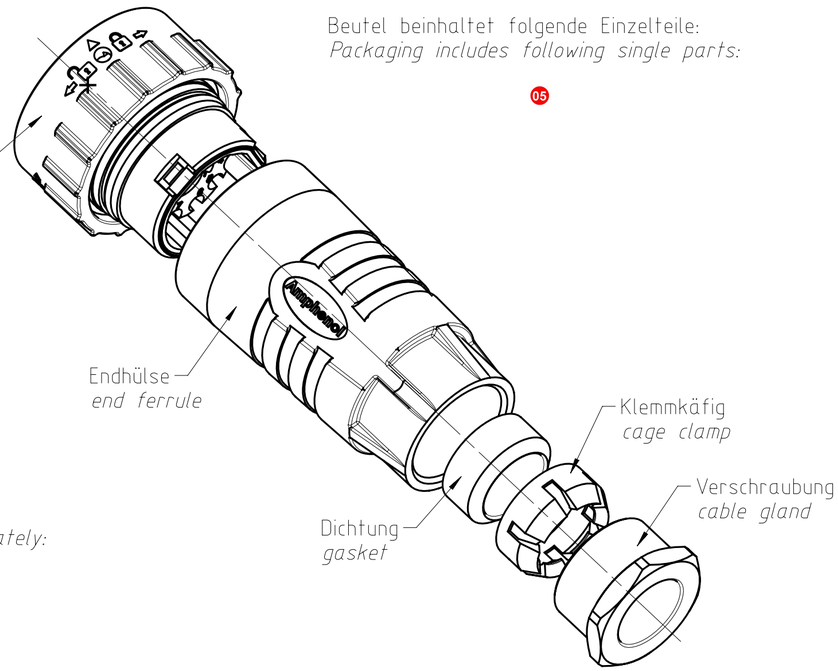
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Beutel beinhaltet folgende Einzelteile:
*Packaging includes following single parts:*

05

| | |
|---|---|
| Polzahl<br>*number of contacts* | 2+2+4+1 |
| Kontakte<br>*contacts* | 2x Size 8<br>2x Size 12<br>4x Size 16<br>1x Size 16 überbrückt / *bridged* |
| Bemessungsspannung (DIN EN 60664-1)<br>*Rated voltage (DIN EN 60664-1)* | 24VDC |
| Strombelastbarkeit bei +40°C<br>(alle Kontakte belastet)<br>*Current carrying capacity at 40°C*<br>*(all contacts under load)* | 2x45A (6mm²)<br>2x60A (10mm²) 05<br>2x75A (16mm²) 05<br><br>2x15A (2,5mm²)<br>4x5A (0,5mm²) |
| Max. Strombelastbarkeit<br>der Kontakte bei +40°C<br>*max. current carrying capacity*<br>*of contacts at +40°C* | 2x50A (6mm²)<br>2x70A (10mm²)<br>2x80A (16mm²) 05<br>2x25A (2,5mm²) |
| Verschmutzungsgrad<br>*Pollution degree* | 3 |
| Temperaturbereich<br>*Temperature range* | -40°C bis +125°C<br>*-40°F up to +257°F* |
| Schutzgrad<br>*protection class* | IP67 / IP6K9K (gesteckt)<br>*IP67 / IP6K9K (mated)* |
| Mechanische Lebensdauer<br>*Mechanical operations* | ≥100 Steckzyklen<br>*≥100 mating cycles* |
| Werkstoff Dichtungen<br>*material gaskets* | NBR, Silikon<br>*NBR, silicone* |
| Werkstoff Gehäuse<br>*material housing* | Polyamid schwarz, UL94V-0<br>*polyamide black, UL94V-0* |
| Werkstoff Kontaktträger<br>*material housing* | Polyamid schwarz, UL94V-0<br>*polyamide black, UL94V-0* |
| Werkstoff Kontakte + Oberfläche<br>*material contacts + surface* | Kupferlegierung, vernickelt<br>*copper alloy, nickel plated* |
| Anschließbare Kabeldurchmesser<br>*Possible cable diameter* | 14 - 18mm |
| Verriegelung<br>*locking* | Bajonett<br>*Bayonet* |

Stecker nach ISO 11783-2
*connector acc. to ISO 11783-2*

Version frei konfektionierbar mit Kabelverschraubung
*version free assembly with cable gland*

Kontakte bitte separat bestellen / *Please order contacts separately:*

Size 8 (2x benötigt / 2x needed):
6mm² - VN02 036 0026 6
10mm² - VN02 036 0027 6
16mm² - VN02 036 0028 6

Size 12 (2x benötigt / 2x needed):
gestanzt / stamped (AWG 12-14): AT62-12-0166 (nickel plated) / AT62-12-0144 (gold plated)
gedreht / turned (AWG 12-14): AT62-203-12141 (nickel plated) / AT62-210-1231 (gold plated)

Size 16 (4x benötigt / 4x needed):
gestanzt / stamped (0,34-0,5mm²): AT62-16-0822 (nickel plated) / AT62-16-0844 (gold plated)
gestanzt / stamped (AWG 18-20): AT62-16-0622 (nickel plated) / AT62-16-0644 (gold plated)
gedreht / turned (AWG 16-20): AT62-201-16141 (nickel plated) / AT62-201-1631 (gold plated)

Weitere Kontakte auf Anfrage / *other contacts on request*

Crimpausrüstung siehe Montageanleitung
- N 22 000 0024 (6mm²)
- N 22 000 0025 (10mm²)
- N 22 000 0026 (16mm²)

*equipment for crimping according to assembly instruction*
- *N 22 000 0024 (6mm²)*
- *N 22 000 0025 (10mm²)*
- *N 22 000 0026 (16mm²)*

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| Index | Änderung / *Description* | Datum / *Date* | Name |
|---|---|---|---|
| 05 | 201900126 | 24.07.2019 | SWAHL |
| 04 | 201700501 | 26.02.2018 | RSCHÄ |
| 03 | 201500766 | 13.04.2017 | NPFEI |
| 02 | 201500766 | 15.02.2017 | RSCHÄ |
| 01 | 201500766 | 02.02.2017 | RSCHÄ |

Gewicht (errechnet) / *Calc. WT.*: 0,111 kg
Prüfmaß / *Testdimension*
Teileindex / *Partindexnumber:*
*Bagatelle change:*

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

Gez. 26.10.2016
Drawn RSCHAEDEL
Status Released
Gepr. 18.07.2019
Checked MGRIMM

**Amphenol Tuchel Industrial GmbH**

Maßstab / *Scale*: 1:1 | A2

# CUSTOMER DRAWING

Kabeldose
*female cable connector*

M AHDP06-24-91S-BS1

Blatt / *Sheet* 1 | 1 Bl.

Ers. f. / *Replacement for*:

NXM-V03 | FA12019-0007O6

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# **AT Series™** - Contact Size 16 Options

| Machined Contacts, Sockets & Pins | | | | |
|---|---|---|---|---|
| **Part Number** | **Description** | **Size** | **AWG** | **Type** |
| AT60-215-1631 | Male Contact - Pin, Gold-plated | 16 | 14 | Machined |
| AT62-209-1631 | Female Contact - Socket, Gold-plated | 16 | 14 | Machined |
| AT60-215-16141 | Male Contact - Pin, Nickel-plated | 16 | 14 | Machined |
| AT62-209-16141 | Female Contact - Socket, Nickel-plated | 16 | 14 | Machined |
| AT60-202-1631 | Male Contact - Pin, Gold-plated | 16 | 16-20 | Machined |
| AT62-201-1631 | Female Contact - Socket, Gold-plated | 16 | 16-20 | Machined |
| AT60-202-16141 | Male Contact - Pin, Nickel-plated | 16 | 16-20 | Machined |
| AT62-201-16141 | Female Contact - Socket, Nickel-plated | 16 | 16-20 | Machined |
| AT60-202-1631-22 | Male Contact - Pin, Gold-plated | 16 | 22-24 | Machined |
| AT62-201-1631-22 | Female Contact - Socket, Gold-plated | 16 | 22-24 | Machined |
| AT60-202-16141-22 | Male Contact - Pin, Nickel-plated | 16 | 22-24 | Machined |
| AT62-201-16141-22 | Female Contact - Socket, Nickel-plated | 16 | 22-24 | Machined |

| Tooling - Machined Contacts | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | CA-5D12 | Universal Hand Crimp Tool, Size 12/16/20<br>(Machined contacts only) |
|  | CA-5E12 | Pneumatic Crimp Tool, Size 12/16/20<br>(Machined contacts only) |

| Contact Removal Tools | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | ATRT-100 | Used for removal of contacts for A Series™ products |
|  | AT11-310-1605 | Contact Removal Tool, Plastic, Size 16 |
|  | A114017 | Sealing Plug, Size 16, White |

| Stamped & Formed Contacts, Sockets & Pins | | | | |
|---|---|---|---|---|
| **Part Number** | **Description** | **Size** | **AWG** | **Type** |
| AT60-14-0144 | Male Contact - Pin, Gold-plated | 16 | 14-16 | Stamped & Formed |
| AT62-14-0144 | Female Contact - Socket, Gold-plated | 16 | 14-16 | Stamped & Formed |
| AT60-14-0122 | Male Contact - Pin, Nickel-plated | 16 | 14-16 | Stamped & Formed |
| AT62-14-0122 | Female Contact - Socket, Nickel-plated | 16 | 14-16 | Stamped & Formed |
| AT60-16-0144 | Male Contact - Pin, Gold-plated | 16 | 16-18 | Stamped & Formed |
| AT62-16-0144 | Female Contact - Socket, Gold-plated | 16 | 16-18 | Stamped & Formed |
| AT60-16-0122 | Male Contact - Pin, Nickel-plated | 16 | 16-18 | Stamped & Formed |
| AT62-16-0122 | Female Contact - Socket, Nickel-plated | 16 | 16-18 | Stamped & Formed |
| AT60-16-0644 | Male Contact - Pin, Gold-plated | 16 | 18-20 | Stamped & Formed |
| AT62-16-0644 | Female Contact - Socket, Gold-plated | 16 | 18-20 | Stamped & Formed |
| AT60-16-0622 | Male Contact - Pin, Nickel-plated | 16 | 18-20 | Stamped & Formed |
| AT62-16-0622 | Female Contact - Socket, Nickel-plated | 16 | 18-20 | Stamped & Formed |
| AT60-16-0844 | Male Contact - Pin, Gold-plated | 16 | 20-22 | Stamped & Formed |
| AT62-16-0844 | Female Contact - Socket, Gold-plated | 16 | 20-22 | Stamped & Formed |
| AT60-16-0822 | Male Contact - Pin, Nickel-plated | 16 | 20-22 | Stamped & Formed |
| AT62-16-0822 | Female Contact - Socket, Nickel-plated | 16 | 20-22 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | MFX-3950 | Crimp Die - Size 16, 18-20AWG (S&F contacts only) |
| | MFX-3953 | Crimp Die - Size 16, 16-18AWG (S&F contacts only) |
| | MFX-3975 | Crimp Die - Size 16, 14-16AWG (S&F contacts only) |
| | MFX-3990 | Crimp Die - Size 16, 20-22AWG (S&F contacts only) |
|  | ATT-16-00 | Hand Crimp Tool - Size 16, 14-16AWG (S&F contacts only) |
| | ATT-16-01 | Hand Crimp Tool - Size 16, 18-20AWG (S&F contacts only) |
| | ATT-1612-03 | Hand Crimp Tool - Size 16, 20-22AWG (S&F contacts only) |

**Amphenol Sine Systems**
44724 Morley Drive
Clinton Township, MI 48036 USA
**www.amphenol-sine.com**
09/2021

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# MagnaMate™ ATHP - DuraMate™ AHDP - DuraMate™ AHDM Series - Contact Size 12 Options

| Machined Contacts, Sockets & Pins | | | | |
|---|---|---|---|---|
| **Part Number** | **Description** | **Size** | **AWG** | **Type** |
| AT60-204-12141-10 | Male Contact - Pin, Nickel-plated | 12 | 10-12 | Machined |
| AT62-203-12141-10 | Female Contact - Socket, Nickel-plated | 12 | 10-12 | Machined |
| AT60-220-1231 | Male Contact - Pin, Gold-plated | 12 | 12-14 | Machined |
| AT62-210-1231 | Female Contact - Socket, Gold-plated | 12 | 12-14 | Machined |
| AT60-204-12141 | Male Contact - Pin, Nickel-plated | 12 | 12-14 | Machined |
| AT62-203-12141 | Female Contact - Socket, Nickel-plated | 12 | 12-14 | Machined |

| DiagnosticGrade™ Machined Contacts, Sockets & Pins<br>• Smaller AWG for Diagnostic Applications • Gold-plated • Increased Mating Cycles • Cost-effective | | | | |
|---|---|---|---|---|
| **Part Number** | **Description** | **Size** | **AWG** | **Type** |
| 65-54749 | Male Contact - DiagnosticGrade™, Pin, Gold-plated | 12 | 20 | Machined |
| AT62-210-1231-1820 | Female Contact - DiagnosticGrade™, Socket, Gold-plated | 12 | 20 | Machined |

| Tooling - Machined Contacts | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | CA-5D12 | Universal Hand Crimp Tool, Size 12/16/20<br>(Machined contacts only) |
|  | CA-5E12 | Pneumatic Crimp Tool, Size 12/16/20<br>(Machined contacts only) |

| Contact Removal Tools | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | AT11-337-1205 | Contact Removal Tool, Plastic, Size 12 |
|  | A114017 | Sealing Plug, Size 12, White |

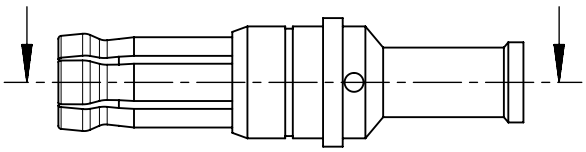
| Stamped & Formed Contacts, Sockets & Pins | | | | |
|---|---|---|---|---|
| **Part Number** | **Description** | **Size** | **AWG** | **Type** |
| AT60-12-0244 | Male Contact - Pin, Gold-plated | 12 | 10-12 | Stamped & Formed |
| AT62-12-0244 | Female Contact - Socket, Gold-plated | 12 | 10-12 | Stamped & Formed |
| AT60-12-0222 | Male Contact - Pin, Nickel-plated | 12 | 10-12 | Stamped & Formed |
| AT62-12-0222 | Female Contact - Socket, Nickel-plated | 12 | 10-12 | Stamped & Formed |
| AT60-12-0144 | Male Contact - Pin, Gold-plated | 12 | 12-14 | Stamped & Formed |
| AT62-12-0144 | Female Contact - Socket, Gold-plated | 12 | 12-14 | Stamped & Formed |
| AT60-12-0166 | Male Contact - Pin, Nickel-plated | 12 | 12-14 | Stamped & Formed |
| AT62-12-0166 | Female Contact - Socket, Nickel-plated | 12 | 12-14 | Stamped & Formed |

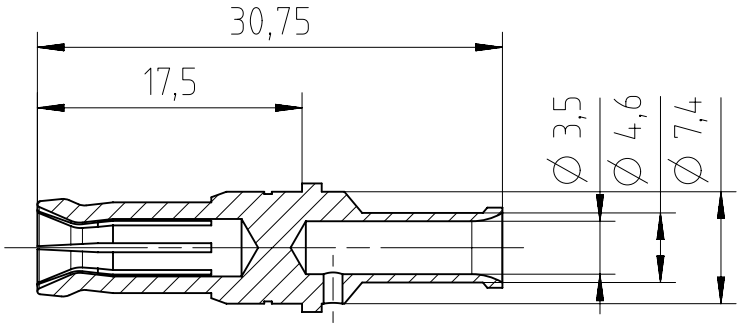
| Tooling - Stamped & Formed Contacts | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | MFX-3973 | Crimp Die - Size 12 (S&F contacts only) |
| | MFX-3985 | Crimp Die - Size 12 (S&F contacts only) 10-12AWG -02XX Series |
|  | ATT-12-00 | Hand Crimp Tool - Size 12, 12AWG (S&F contacts only) |
| | ATT-12-01 | Hand Crimp Tool - Size 12, 10AWG (S&F contacts only) |

**Amphenol Sine Systems**
44724 Morley Drive
Clinton Township, MI 48036 USA
**www.amphenol-sine.com**
01/2022

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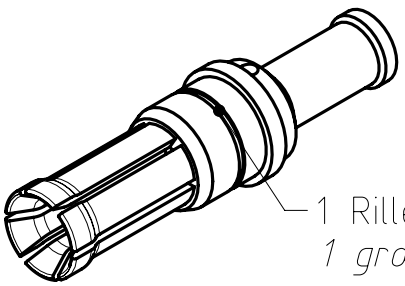
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Material: Kupferlegierung
*material: copper alloy*
Oberfläche: vernickelt
*surface coating: nickel plated*
Für Kontaktstift Ø 3,6mm
*for male contact Ø 3,6mm*

Anschlussquerschnitt: 6mm²
*cross section: 6mm²*




100 Stück in einem Beutel verpackt
*100 pcs packed in one poly bag*

Alle technischen Daten wurden unter Laborbedingungen ermittelt und können im Praxisbetrieb abweichen.
Es handelt sich bei den Angaben weder um Beschaffenheits- noch um Haltbarkeitsgarantien.
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| | | | |
|---|---|---|---|
| Gewicht (errechnet) / *Calc WT*: | Zul. Abw./ *Tolerances*: | Maßstab / *Scale*: 2:1 | A4 |
| Prüfmaß / *Testdimension* | ISO 2768-mH | DIN / ISO 13715 | CUSTOMER DRAWING |
| Teileindex / *Partindexnumber*: | | | |
| *Bagatelle change*: | | | |

| Index | Änderung/ *Description* | Datum/ *Date* | Name |
|---|---|---|---|
| 04 | 201900099 | 01.04.2019 | MTOLK |
| 03 | 201800125 | 01.03.2018 | NPFEI |
| 02 | 201800066 | 25.01.2018 | NPFEI |
| 01 | 201500766 | 31.03.2017 | NPFEI |

| | |
|---|---|
| Gez. / Drawn | 30.03.2017 AZN_NPFEIFFE |
| Status | Released |
| Gepr. / Checked | 01.04.2019 MGRIMM |

**Amphenol Tuchel Industrial GmbH**

# Buchsenkontakt
*female contact*

M VN 02 036 0026 6

Blatt/ *Sheet* 1 — 1 Bl.

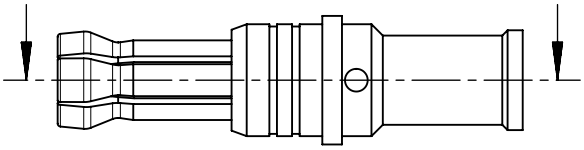
Ers. f. / *Replacement for*:

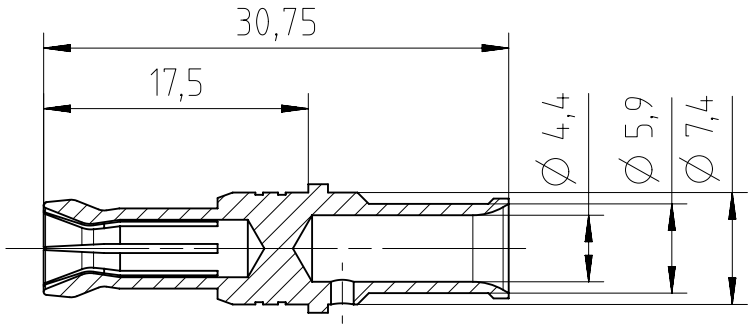
NXM-V04 | FAI2019-000902

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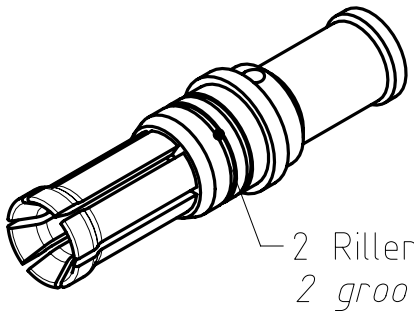





Material: Kupferlegierung
*material: copper alloy*
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*surface coating: nickel plated*
Für Kontaktstift Ø 3,6mm
*for male contact Ø 3,6mm*

Anschlussquerschnitt: 10mm²
*cross section: 10mm²*

100 Stück in einem Beutel verpackt
*100 pcs packed in one poly bag*




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| Teileindex / *Partindexnumber:* | | | |
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| 02 | 201800066 | 25.01.2018 | NPFEI |
| 01 | 201500766 | 31.03.2017 | NPFEI |

| | |
|---|---|
| Gez. / Drawn | 30.03.2017 AZN_NPFEIFFE |
| Status | Released |
| Gepr. / Checked | 01.04.2019 MGRIMM |

**Amphenol Tuchel Industrial GmbH**

# Buchsenkontakt
*female contact*

M VN 02 036 0027 6

Blatt/ *Sheet* 1 / 1 Bl.

Ers. f. / *Replacement for* :

NXM-V03 FA12019-000905

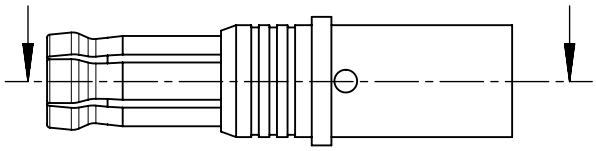
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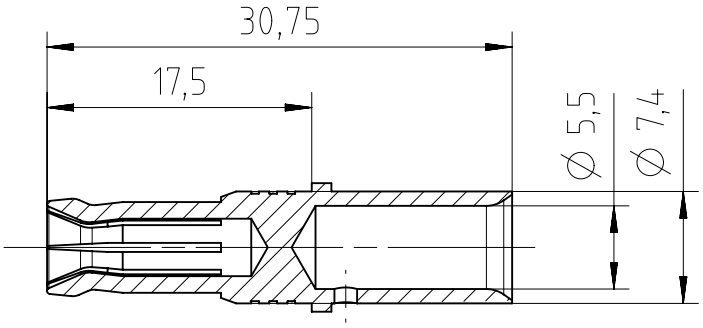
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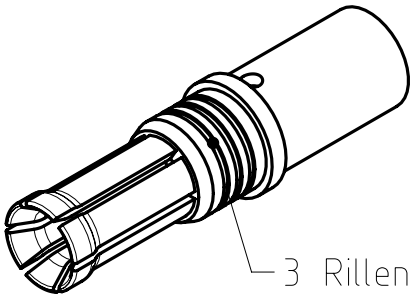





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*100 pcs packed in one poly bag*




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, particulary the information does not constitute or provide any legal guarantees ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").*

| | | | |
|---|---|---|---|
| Gewicht (errechnet) / *Calc WT*: | | Zul. Abw./ *Tolerances*: | DIN / ISO 13715 |
| Prüfmaß / *Testdimension* | | ISO 2768-mH | |
| Teileindex / *Partindexnumber*: | | | |
| *Bagatelle change*: | | | |

Maßstab / *Scale*: 2:1 | A4

# CUSTOMER DRAWING

| | |
|---|---|
| Gez. | 30.03.2017 |
| Drawn | AZN_NPFEIFFE |
| Status | Released |
| Gepr. | 01.04.2019 |
| Checked | MGRIMM |

## Buchsenkontakt
*female contact*

| Index | Änderung/ *Description* | Datum/ *Date* | Name |
|---|---|---|---|
| 04 | 201900099 | 01.04.2019 | MTOLK |
| 03 | 201800125 | 01.03.2018 | NPFEI |
| 02 | 201800066 | 25.01.2018 | NPFEI |
| 01 | 201500766 | 31.03.2017 | NPFEI |

**Amphenol Tuchel Industrial GmbH**

M VN 02 036 0028 6

Blatt/ *Sheet* 1 | 1 Bl.

Ers. f. / *Replacement for*:

NXM-V03 | FA12019-000907

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