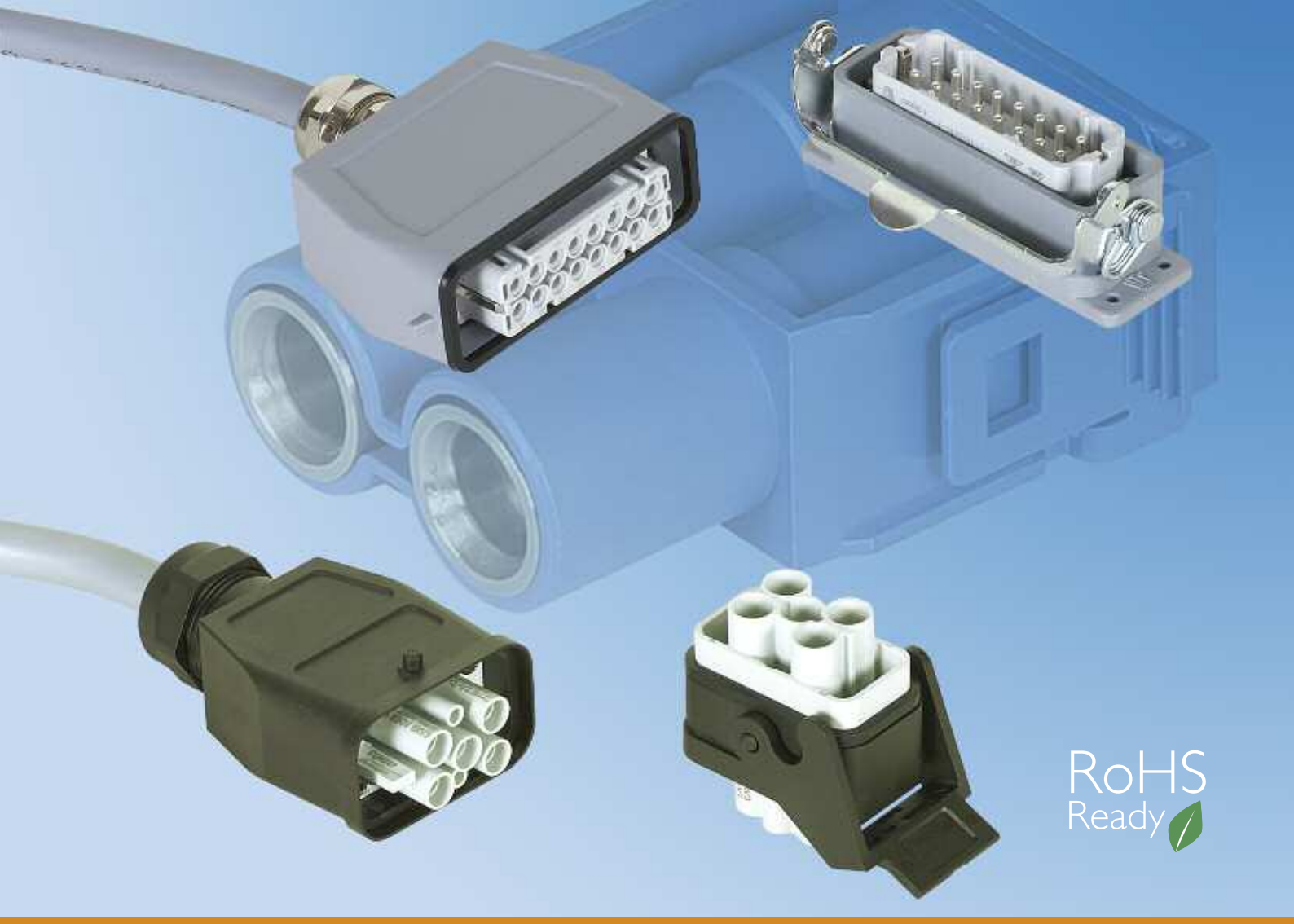


# Industrie-Steckverbinder
# Heavy Duty Connectors

TE connectivity

# TE CONNECTIVITY TECHNOLOGY PORTFOLIO

- Connector Systems / Electromechanical Components
- Relays
- Wireless Products
- Sensors
- Fiber Optic Products
- Wire & Cable
- Application Tooling
- Antennas, GPS Antennas, Integrated Antenna Systems
- Circuit Protection Devices
- Tubing & Harnessing Products
- Touch Screen Displays
- Power Systems
- Electronic Modules
- Resistors & Inductors
- Battery Connectors & Assemblies
- Heat Sinks & Thermal Solutions
- Switches and Knobs
- Identification Labeling Products
- Racks & Panels
- Smart Cards / Leadframes

## TE Connectivity Online

The TE Connectivity website is an innovative and interactive source for application information, product updates and technical solutions.
Our step-by-step software makes our website intuitive and user-friendly to better serve you!
Please contact us at:
te.com

## Product Information Centers

You've got questions? TE's Product Information Centers (PIC) will help you get answers.
Contact a technical product information specialist.
- Email us
- Call us
- Chat with us

Please go to te.com/help for more information.

## Internet

te.com/products/HTS

## Restriction on the Use of Hazardous Substances (RoHS)

At TE Connectivity (TE), we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

### RoHS Compliant

Part numbers in this catalog are RoHS Compliant, unless marked otherwise.

These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

**Note:** For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

### Non-RoHS Compliant

These part numbers are identified with a "♦" symbol. These products do not comply with the material restrictions of the European Union Directive 2002/95/EC.

### 5 of 6 Compliant

A "●" symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

**Note:** Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced below.

### Getting the Information You Need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog: te.com/customersupport/productcompliance
- More detailed information regarding the definitions used above

RoHS Customer Support Center

So whatever your questions when it comes to RoHS, we've got the answers at www.te.com/leadfree

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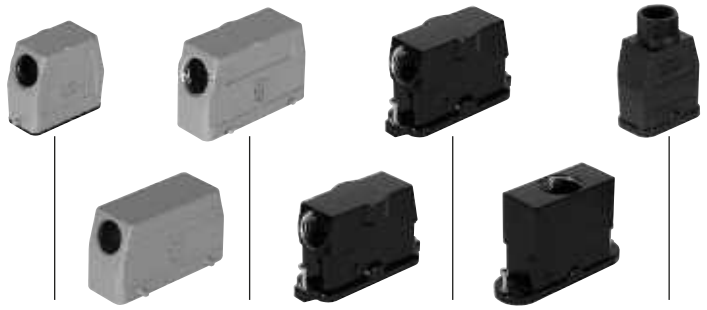
## Gehäuse/*Housings*



| Serie *Series* | HA | HB | HD | HIP-K | EMV-K | HF | HG Q |
|---|---|---|---|---|---|---|---|
| Merkmale *Features* | Schmale Standard Serie *thin standard Series* | Breite Standard Serie *wide standard series* | Hohe Standard Serie *High standard Series* | Druckdicht Korrosions-geschützt *pressure tight Corrosion protected* | Störspann-ungssicher Druckdicht Korrosions-geschützt *EMC Dense and pressure tight Corrosion protected* | Störspann-ungssicher Druckdicht *EMC Dense and pressure tight Corrosion protected* | Kunststoff *plastic* |
| IP | 44 - 65 | 65 | 65 | 68 | 68 | 68 | 65 |
| Verriege-lung *Locking system* | VS LB | VS LB ZB | VS LB ZB | SV | SV | SV | LB |
| | VS = 2 Verschlussbüge */2 lever locking*<br>LB = 1 Längsbügel/*1 locking lever*<br>ZB = 1 Zentralbügel/*1 central locking*<br>SV = 2 Schrauben/*2 Screws* | | | | | | |
| **Baugröße *Size*** | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* |
| **1** | *49–50* | | | *53–54* | *53–54* | | *51-52* |
| **Q** | | | | | | | *56-58* |
| **2** | *63–65* | | *63–65* | | | | |
| **3** | | *73–78* | *73–78* | *79–80* | *79–80* | | |
| **4** | | *87–97* | *87–97* | *98–99* | *98–99* | | |
| **5** | *103–105* | | *103–105* | | | | |
| **6** | | *114–124* | *115–124* | *125–126* | *125–126* | | |
| **7** | *130–131* | | | | | | |
| **8** | | *139–149* | *139-149* | *150–151* | *150–151* | *176* | |
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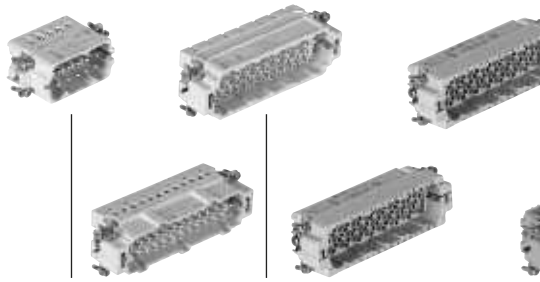
## Kontakteinsätze/*Contact Inserts*



| Serie *Series* | HA | HE | HEE | HD | HN.D |
|---|---|---|---|---|---|
| Elektr. Kennwerte nach VDE Last/Signal *Rating according VDE Power/ signal* | 250V 10A (size 1) 16A | 400V 16A | 500V 16A | 250V 10A | 250V 10A |
| Verschmut zungsgrad *Degree of pollution* | 3 | 3 | 3 | 3 | 3 |
| Anschluss-art *Type of terminals* | Crimp/ Screw/ Spring | Crimp / Screw / Spring | Crimp | Crimp (stamped) | Crimp |
| Weitere Normen *Additional standards* | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN61984 | DIN VDE 0627 EN61984 | DIN VDE 0627 EN 61984 DIN EN 175.301-801 | DIN VDE 0627 EN 61984 DIN EN 175.301-801 |
| **Baugröße *Size*** | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* |
| **1** | **3 4** *45* | **5** *46* | | **7 8** *48* | **7 8** *47* |
| **Q** | | | | | |
| **2** | **10** *60* | | | **15** *62* | **15** *61* |
| **3** | | **6** *66* | **10** *67* | **16** *69* | |
| **4** | | **10** *81* | **18** *82* | **24** *84* | |
| **5** | **16** *100* | | | **25** *102* | **25** *101* |
| **6** | | **16** *106* | **32** *107* | **40** *110* | **40** *109* |
| **7** | **32** *127* | | | **50** *129* | **50** *128* |
| **8** | | **24** *132* | **46** *133* | **64** *136* | **64** *135* |
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| **10** | | **32** *155* | | **80** *158* | **80** *157* |
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| **12** | | **48** *168* | **92** *170* | **128** *170* | **128** *169* |



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
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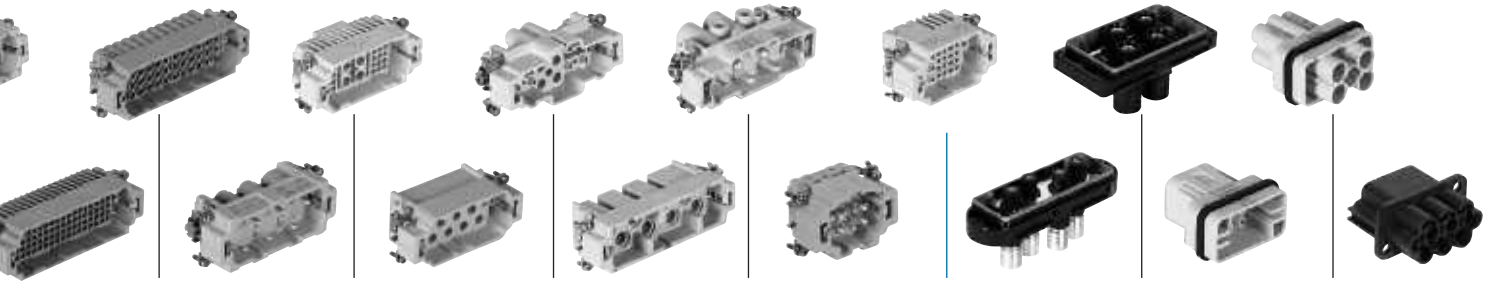

| HN.2D | HVT | HSB | HSK 6/36 | HMX 12/2 | HMX 6/12 | HSS | HMX (4/0, 4/2) | HSK 4/2 | HMX 8/24 | HF 8 | HF 13 | HG-Q8 | HG-Q4+2 | HG-Q10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 250V 10A | 400V 16A | 400V 35A | 690V/ 250V 40A/10A | 500V/ 250V 40A/10A | 690V/ 400V 40A/10A | 600V/ 400V 63A/16A | 690V 400V 80A/16A | 500V/ 400V 40A/16A | 400V/ 250V 16A/10A | 1000V 250A | 3000V 350A | 500V 16A | 690V 40A | 400V 20A |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Crimp | Crimp | Screw | Crimp | Crimp | Crimp | Crimp | Screw | Screw | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp |
| DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | ISO 23570-3 | ISO 23570-3 | DIN VDE 0627 EN 61984 |
| **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* | **Pole** *Seite* **Pos.** *Page* |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | **8** *55* | **4/2** *55* | **10** *55* |
| | | | | | | | | | | | | | | |
| **24** *70* | **8** *68* | | | | | | | **4/2** *71* | **8/24** *85* | | | | | |
| **42** *85* | **14** *83* | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| **108** *135* | **35 48** *134* | | | | | **8/2** *137* | **4/8** *137* | | | **4** *175* | **4** *175* | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| **216** *169* | | | | | | | | | | | | | | |

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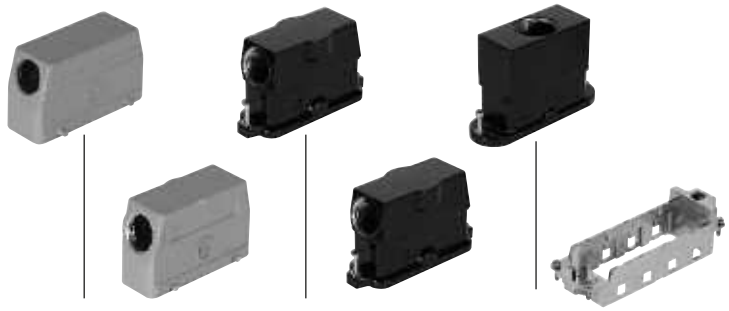
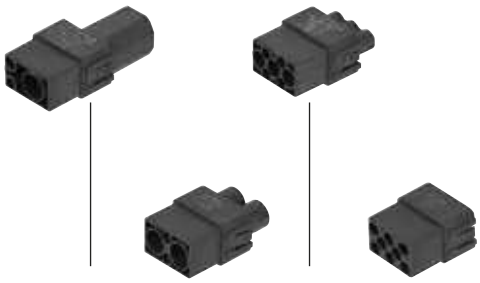
## Gehäuse/*Housings*

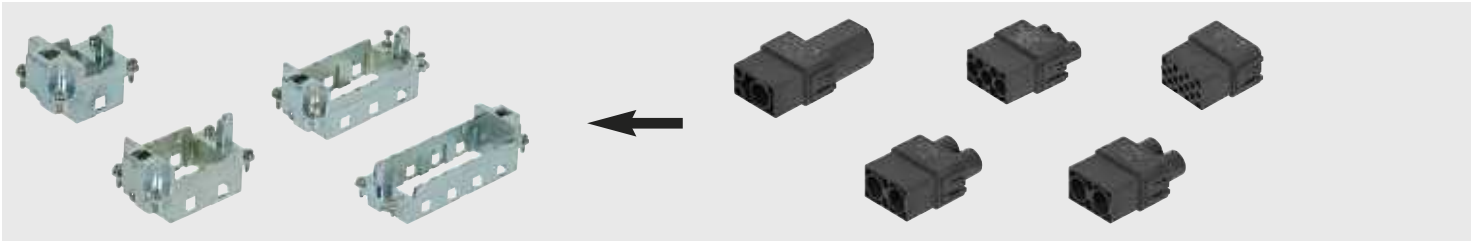


| Serie *Series* | HB | HD | HIP-K | EMV-K | HF | Rahmen *Frame* |
|---|---|---|---|---|---|---|
| Merkmale *Features* | Breite Standard Serie *wide standard series* | Hohe Standard Serie *High standard Series* | Druckdicht Korrosions-geschützt *pressure tight Corrosion protected* | Störspann-ungssicher Druckdicht Korrosions-geschützt *EMC Dense and pressure tight Corrosion protected* | Störspann-ungssicher Druckdicht *EMC Dense and pressure tight Corrosion protected* | |
| IP | 65 | 65 | 68 | 68 | 68 | |
| Verriegelung *Locking system* | VS LB ZB | VS LB ZB | SV | SV | SV | |
| | VS = 2 Verschlussbüge /*2 lever locking*<br>LB = 1 Längsbügel/*1 locking lever*<br>ZB = 1 Zentralbügel/*1 central locking*<br>SV = 2 Schrauben/*2 Screws* | | | | | |
| **Baugröße *Size*** | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* |
| **3** | *73–78* | *73–78* | *78–80* | *78–80* | | *72 + 201* |
| **4** | *87–90* | *87–97* | *98–99* | *98–99* | | *86 + 201* |
| **6** | *114–124* | *115–124* | *125–126* | *125–126* | | *114 + 202* |
| **8** | *139–149* | *139–149* | *150–151* | *150–151* | *176* | *138 + 202* |
| **10** | *160–165* | | | | | *159 + 203* |
| **12** | *172–174* | | | | *176* | *171 + 203* |

## Kontakteinsätze/*Contact Inserts*



| Serie *Series* | MDL. 1+2 | MDL. 2+2 | MDL. 3+4 | MDL. 8 |
|---|---|---|---|---|
| Elektr. Kennwerte nach VDE Last/Signal *Rating according VDE Power/ signal* | 1000V/250V 150A/10A | 1000V/250V 63A/10A | 1000V/250V 40A/10A | 400V 16A |
| Polzahl *Poles* | 1+ 2 | 2+ 2 | 3+ 4 | 8 |
| Verschmut-zungsgrad *Degree of pollution* | 3 | 3 | 3 | 3 |
| Anschluss-art *Type of ter-minals* | Crimp | Crimp | Crimp | Crimp |
| Weitere Normen *Additional standards* | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 DIN EN 175.301-801 | DIN VDE 0627 EN 61984 |
| Seite *Page* | *194* | *194* | *195* | *195* |





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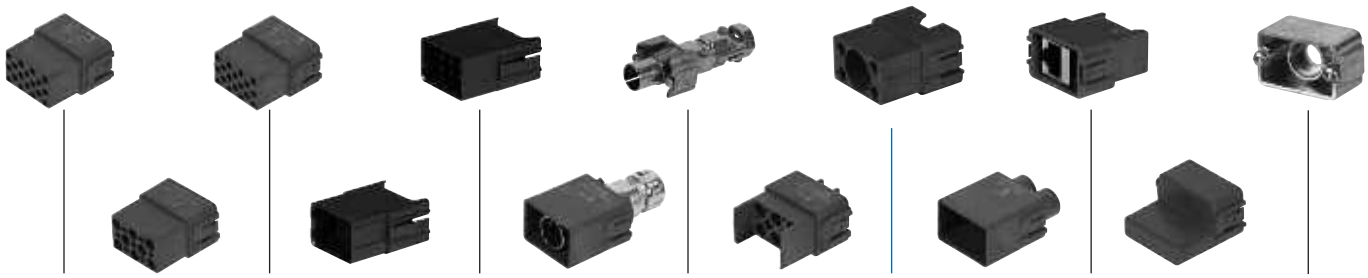
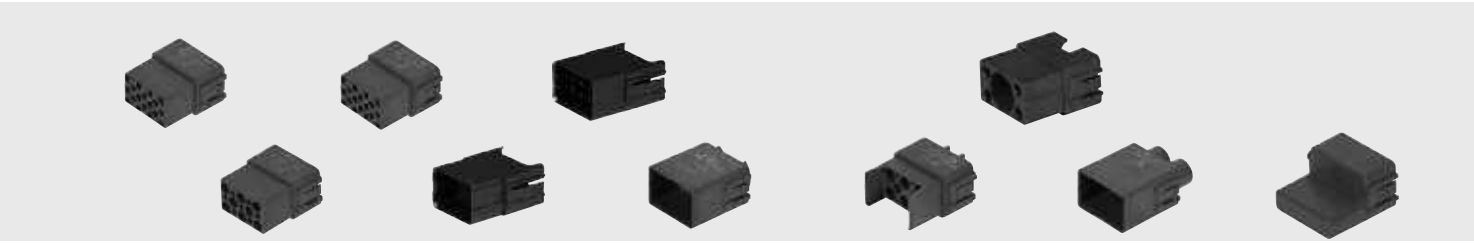
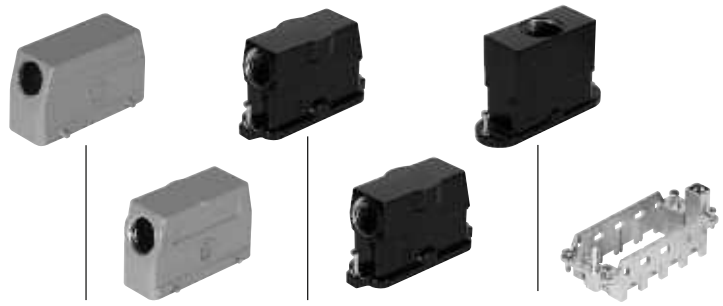


| MDL. HD.18 | MDL. HN.D.15 | MDL. HN.D.18 | Dynamic D-2800 | Dynamic D-3800 | MDL. TX.4 | MDL. E.TWIN | MDL. KX | VT coax | MDL.2. AIR.Sti | MDL. RJ45 | MDL.2 Blindmodul | MDL.E.C Erdmodul |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 250V<br>10A<br><br>Fiber optic | 400V<br>10A | 400V<br>10A | 250V<br>5A | 600V<br>8A | 150V<br>16A<br>Twisted pair | 150V<br>16A | RG 58<br>RG 59 | 75 Ohm<br>Inner/Outer diam.<br>0,8/6,1<br>1,44/10<br>2,8/10,7 | 10 bar | Cat5e | | |
| 18 | 15 | 18 | 30 | 12 | 4 | 4 | 6 | 1 | 2 | 1<br>Plug/Jack | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Crimp<br>(stamped)<br>Melting<br>(fiber) | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | solder | push | IDC<br>Patch cable | | Crimp |
| DIN VDE<br>0627<br>EN 61984 | DIN VDE<br>0627<br>EN 61984 | DIN VDE<br>0627<br>EN 61984 | DIN VDE<br>0627<br>EN 61984 | | DIN VDE<br>0627<br>EN 61984 | DIN VDE<br>0627<br>EN 61984 | | | | | | |
| *196* | *196* | *196* | *197* | *197* | *198* | *198* | *198* | *199* | *200* | *199* | *200* | *200* |

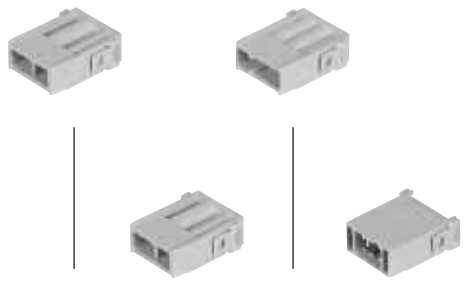


## Gehäuse/*Hoods*

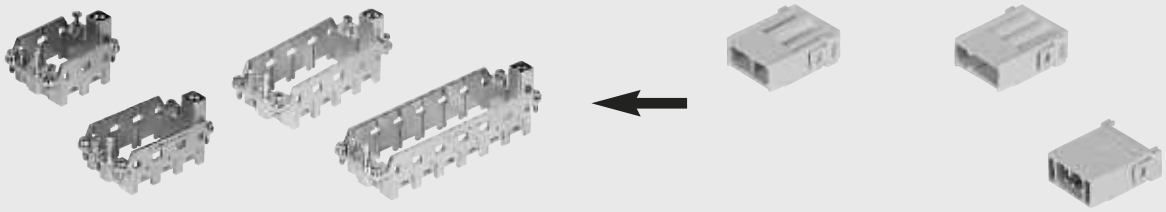


| Serie *Series* | HB | HD | HIP-K | EMV-K | HF | Rahmen *Frame* |
|---|---|---|---|---|---|---|
| Merkmale *Features* | Breite Standard Serie *wide standard series* | Hohe Standard Serie *High standard Series* | Druckdicht Korrosions-geschützt *pressure tight Corrosion protected* | Störspann-ungssicher Druckdicht Korrosions-geschützt *EMC Dense and pressure tight Corrosion protected* | Störspann-ungssicher Druckdicht *EMC Dense and pressure tight Corrosion protected* | |
| IP | 65 | 65 | 68 | 68 | 68 | |
| Verriegelung *Locking system* | VS LB ZB | VS LB ZB | SV | SV | SV | |
| | VS = 2 Verschlussbüge /*2 lever locking*<br>LB = 1 Längsbügel/*1 locking lever*<br>ZB = 1 Zentralbügel/*1 central locking*<br>SV = 2 Schrauben/*2 Screws* | | | | | |
| **Baugröße *Size*** | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* | Seite *Page* |
| **3** | *73–78* | *73–78* | *78–80* | *78–80* | | *72 + 211* |
| **4** | *87–90* | *87–97* | *98–99* | *98–99* | | *86 + 211* |
| **6** | *114–124* | *115–124* | *125–126* | *125–126* | | *114 + 212* |
| **8** | *139–149* | *139–149* | *150–151* | *150–151* | *176* | *138 + 212* |
| **10** | *160–165* | | | | | |
| **12** | *172–174* | | | | *176* | |

## Kontakteinsätze/*Contact Inserts*

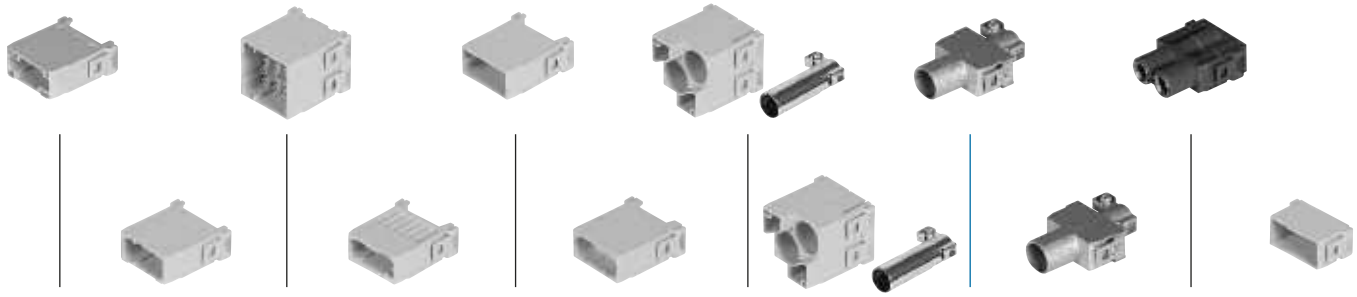


| Serie *Series* | HSS.2 | HSK.2 | HSK.3 | HE 5 SC |
|---|---|---|---|---|
| Elektr. Kennwerte nach VDE Last/Signal *Rating according VDE Power/ signal* | 500V/63A | 1000V/40A | 690V/40A | 400V/16A |
| Polzahl *Poles* | 2 | 2 | 3 | 5 |
| Verschmut-zungsgrad *Degree of pollution* | 3 | 3 | 3 | 3 |
| Anschluss-art *Type of ter-minals* | Crimp | Crimp | Crimp | Spring Clamp |
| Weitere Normen *Additional standards* | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 |
| Seite *Page* | *204* | *204* | *205* | *205* |

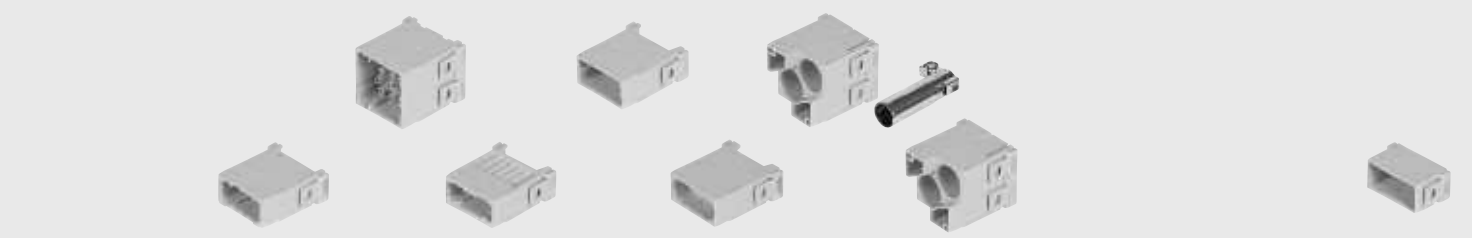




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

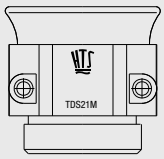


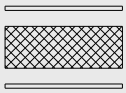
| HE 6 | HE 8 | HE 20 | HN.D 12 | HN.D 17 | S20.DF25 | TX HN.D | TX S20DF | TX.MVB HN.D | TX.MVB S20DF | Pneumatik | Blindmodul |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 500V/16A | 400V/16A | 500V/16A | 250V/10A | 250V/10A | 50V/5A | 50V/10A | 50V/5A | 50V/10A | 50V/5A | 10 Bar | |
| 6 | 20 | 18 | 12 | 17 | 25 | 2x4 | 2x8 | 4 | 8 | 2 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | Crimp | | |
| DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | DIN VDE 0627 EN 61984 | | |
| *206* | *206* | *207* | *207* | *208* | *209* | *209* | *209* | *210* | *210* | *210* | *211* |



## Steckverbinder Bauteilkomponenten/*Connector components*

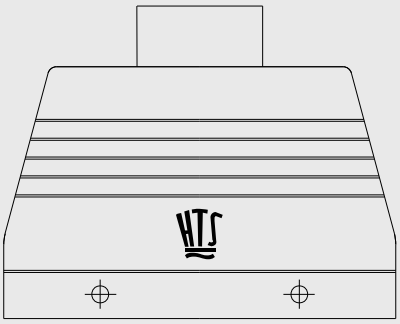
**Kabel-Verschraubung**
Spezial-Kabelverschraubungen für Schutzarten bis IP 68 und für EMV-Anwendung lieferbar



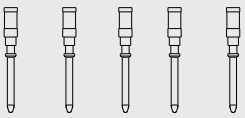
***Cable fitting***
*Special cable fittings for protection up to IP 68 and for electro-magnetic compatibility available*

**Gehäuse-Oberteil**
Standard- und korrosionsgeschützte Stecker Gehäuse
- in niedriger oder hoher Bauform
- 4 unterschiedliche Verriegelungssysteme
- unterschiedliche Kabeleingänge:
  Panzergewinde (PG)
  metrische Gewinde (M)
  NPT-Gewinde (NPT)



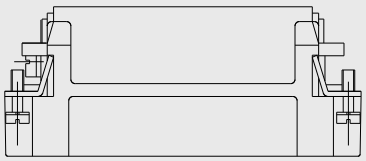
***Hood***
*Standard and corrosion-resistant connector hoods:*
- *low and high construction*
- *4 different locking systems*
- *different cable entries:*
  *PG Thread*
  *M Thread*
  *NPT Thread*

**Kontakte**
Silber- oder Goldoberfläche
Gedrehte Massivkontakte mit Schraub, Feder oder Crimp-Anschluss



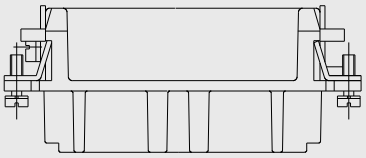
***Contacts***
*Silver or gold plated*
*Solid machined contacts with screw, spring or crimp termination*

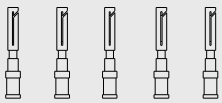
**Stift-Einsatz**
Schraub-, Spring Clamp-, oder Crimp-Anschluss



***Male insert***
*Screw, Spring clamp or crimp terminal*

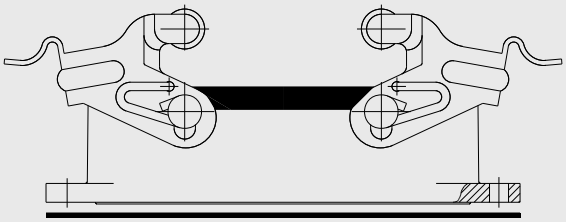
**Buchsen-Einsatz**
Schraub-, Spring Clamp-, oder Crimp-Anschluss





***Female insert***
*Screw, Spring clamp or crimp terminal*

**Gehäuse-Unterteil**
Standard- und korrosionsgeschützte Anbau-, Sockel-, und Kupplungs-Gehäuse
- Niedrige oder hohe Bauform der Sockel- und Kupplungs-Gehäuse, ohne/mit komplett montiertem Aludeckel
- 4 unterschiedliche Verriegelungssysteme



***Hood and housing***
*Standard and corrosion-resistant bottom-entry, surface-mounted and cable-to-cable hoods:*
- *low and high construction (bottom-entry and cable-to-cable hood) with/without aluminium cover*
- *4 different locking systems*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

| Approvals/Zulassungen<br>Series<br>○ = in Vorbereitung/*in process* | VDE | SEV | UL<br>File E28476 | CSA<br>File 81776 | Germanischer Lloyd | Application Specification | Product Specification |
|---|---|---|---|---|---|---|---|
| HA 3/4 | • | • | • | • | | 114-74010<br>114-74056 | 108-74008<br>108-74055 |
| HA 10/16 | • | • | • | • | | 114-74009<br>114-74003 | 108-74007<br>108-18215 |
| HB 6-24 | | | • | | | 114-74008 | 108-74004<br>108-74005<br>108-18215 |
| HE Q5 | ○ | | ○ | ○ | | 114-74003 | 108-74064 |
| HE 6-24 | • | • | • | • | • | 114-74008<br>114-74003 | 108-74004<br>108-74005<br>108-18215 |
| HEE 10-46 | | | ○ | ○ | | | |
| HD/HN.D 7 | • | • | • | • | | 114-74000<br>114-74015 | <br>108-74002 |
| HN.D 8 | • | • | | | | 114-74000<br>114-74015 | <br>108-74018 |
| HD/HN.D 15/25 | • | • | • | • | | 114-74000<br>114-74015 | 108-74002<br>108-74018 |
| HD 16/24 | • | • | • | • | | 114-74000 | 108-74002 |
| HD/HN.D 40-64 | • | • | • | • | | 114-74000<br>114-74015 | 108-74002<br>108-74018 |
| HVT 8-23+48 | • | • | | | | 114-74026<br>114-74013 | <br>108-74035 |
| HVT 35 | • | • | ○ | ○ | | 114-74026<br>114-74013 | <br>108-74035 |
| HN.2D 24-108 | • | • | • | • | | | 108-74012 |
| HSB 6 | • | • | • | • | | 114-74007 | 108-74006 |
| HSS 8 | • | • | | | | 114-74028 | 108-74016 |
| MDL 1+2 | | | • | • | | 114-74031 | 108-74024 |
| MDL 3+4 | | | • | • | | 114-74036 | 108-74017 |
| MDL 2+2 | | | • | • | | | 108-74031 |
| MDL HN.D 15 & MDL HN.D 18 | | | • | • | | 114-74000<br>114-74015 | <br>108-74032 |
| MDL HD 15 & MDL HD 18 | | | • | • | | | 108-74033 |
| MDL Air Pneumatic | | | • | • | | 114-74014 | 108-74013 |
| MDL Twinax | | | • | • | | 114-74020<br>114-74044 | |
| MDL Koax | | | • | • | | 114-74033<br>114-74034 | |
| MDL HVT 8 | | | • | • | | 114-74013 | 108-74034 |
| HVS | ○ | | ○ | ○ | | ○ | ○ |
| HSK 6/36 | ○ | | ○ | ○ | | 114-74062 | |
| HMX 4/2; HMX 4/0 | ○ | | ○ | ○ | | 114-74058 | 108-74058 |
| HMX 8/24 | ○ | | ○ | ○ | | 114-74061 | 108-74060 |
| HMX 6/12 | ○ | | ○ | ○ | | 114-74051 | 108-74051 |
| HMX 4/8 | ○ | | ○ | ○ | | 114-74067 | 108-74065 |
| HMX 12/2 | ○ | | ○ | ○ | | 114-74068 | 108-74066 |
| HSK 4/2 | ○ | | ○ | ○ | | 114-74063 | 108-74061 |
| HF13 | | | ○ | ○ | | 114-74032 | 108-74044 |
| HF8 | | | ○ | ○ | | 114-74043 | 108-74044 |
| HMX 8/24 | | | ○ | ○ | | 114-74061 | |
| HG-Q8 | ○ | | ○ | ○ | | 114-74050 | 108-74050 |
| HG-Q4+2 | ○ | | ○ | ○ | | 114-74055<br>114-74062 | 108-74053 |
| HG-Q10 | ○ | | ○ | ○ | | 114-74065 | |

Einsätze
Inserts

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| HA 3/4 | | | | | | 114-74002<br>114-74010 | <br>108-74000 |
| HA | | | | | | 114-74001<br>114-74004 | 108-74009<br>108-74026 |
| Quick in Adapter | | | | | | 114-74024 | |
| HB | | | | | | <br><br>114-74001<br>114-74004 | 108-74001<br>108-74003<br>108-74014<br>108-74027 |
| HM.10 | | | | | | | 108-74041 |
| HD | | | | | | <br><br>114-74001<br>114-74004 | 108-74001<br>108-74003<br>108-74027 |
| HIP-K | | | | | | | 108-74030 |
| EMV-K | | | | | | | 108-74036 |
| HF | | | | | | 114-74035<br>114-74036 | |
| HG Q | | | | | | 114-74064<br>114-74065 | <br>108-74052 |

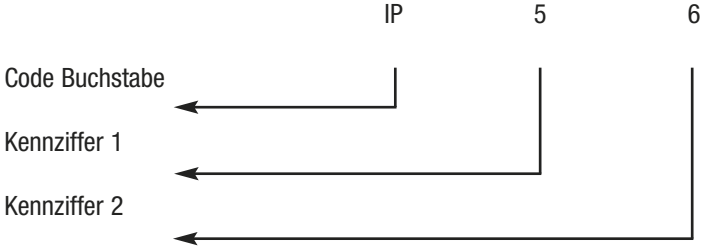
Gehäuse
Housings

## Schutzarten von elektrischen Betriebsmitteln

Elektrische Betriebsmittel müssen aus Sicherheitsgründen gegen Einflüsse von außen geschützt werden. Diese Aufgabe übernehmen Gehäuse, die das elektrische Betriebsmittel gegen Berührung, das Eindringen von festen Fremdkörpern, Staub, Feuchtigkeit oder Wasser schützen. Die Norm IEC 529 mit dem Titel „Schutzarten durch Gehäuse (IP-Code)“ bildet die Grundlage für die Bestimmung und Kennzeichnung der Schutzart eines Gehäuses

Der Umfang der Schutzes (Schutzart) durch ein Gehäuse wird mittels genormter Prüfverfahren nachgewiesen. Zur Einteilung verschiedener Gehäuse bezüglich ihrer Schutzart wird ein Bezeichnungssystem verwendet. Das Bezeichnungssystem besteht aus den Code-Buchstaben IP und zwei nachfolgenden Kennziffern.

**Zusammensetzung des IP – Code (International bzw. Ingress Protection)**




Die erste Kennziffer gibt den Berührungs- und Fremdkörperschutz, die zweite den Schutz des Gehäuses gegen das Eindringen von Wasser an. Die folgende Tabelle enthalten Kurzbeschreibung sowie Definitionen der einzelnen Kennziffern des IP-Codes.

**Bedeutung der ersten Kennziffer**

Die erste Kennziffer gibt an, inwieweit das Gehäuse Personenschutz gewährleistet. Dieser Schutz wird erreicht, indem das Eindringen eines Körperteils (oder eines Gegenstandes der von einer Person gehalten wird) in das Gehäuse verhindert wird.
Gleichzeitig gewährt das Gehäuse dem Betriebsmittel Schutz gegen das Eindringen von festen Fremdkörpern.
Dies ist der Grund dafür, dass es zu jeder ersten Kennziffer 2 Beschreibungen und 2 Definitionen gibt.

| Erste Kennziffer | Schutzgrad gegen Zugang von gefährlichen Teilen und gegen feste Fremdkörper | |
|---|---|---|
| | Kurzbeschreibung | Definition |
| **0** | Nicht geschützt | |
| **1** | -Geschützt gegen feste Fremdkörper mit Ø 50mm<br>-Geschützt gegen den Zugang zu gefährlichen Teilen mit dem Handrücken. | Kugel mit Ø 50mm darf nicht voll eindringen |
| **2** | -Geschützt gegen feste Fremdkörper 12,5 mm Durchmesser<br>-Geschützt gegen den Zugang zu gefährlichen Teilen mit einem Finger | Prüffinger mit Ø 12mm muss ausreichend Abstand von gefährlichen Teilen haben. |
| **3** | -Geschützt gegen feste Fremdkörper Ø 2,5mm<br>-Geschützt gegen den Zugang zu gefährlichen Teilen mit einem Werkzeug | Prüfsonde mit Ø 2,5mm Durchmesser darf nicht eindringen. |
| **4** | -Geschützt gegen feste Fremdkörper Ø 1,0mm Durchmesser.<br>-Geschützt gegen den Zugang zu gefährlichen Teilen mit einem Draht | Prüfsonde mit Ø 1mm Durchmesser darf nicht eindringen. |
| **5** | Staubgeschützt | Eindringen von Staub wird nur soweit verhindert, dass dieser das zufriedenstellende Arbeiten des Gerätes oder die Sicherheit nicht beeinträchtigt. |
| **6** | Staubdicht | Kein Eindringen von Staub. |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**Bedeutung der zweiten Kennziffer**

Die zweite Kennziffer gibt an, inwieweit das Gehäuse schädliche Einflüsse auf das Betriebsmittel infolge des Eindringens von Wasser verhindert.

| Zweite Kennziffer | Schutz gegen Wasser | |
|---|---|---|
| | Kurzbeschreibung | Definition |
| 0 | Nicht geschützt | |
| 1 | Geschützt gegen Tropfwasser | Senkrecht fallende Tropfen dürfen keine schädliche Wirkung haben |
| 2 | Geschützt gegen Tropfwasser, wenn das Gehäuse bis zu 15° geneigt ist. | Senkrecht fallende Tropfen dürfen keine schädliche Wirkung haben, wenn das Gehäuse um einen Winkel bis zu 15° beiderseits der Senkrechten geneigt ist. |
| 3 | Geschützt gegen Sprühwasser. | Wasser, das in einem Winkel bis zu 60° beiderseits der Senkrechten gesprüht wird, darf keine schädliche Wirkung haben. |
| 4 | Geschützt gegen Spritzwasser. | Wasser, das aus jeder Richtung gegen das Gehäuse spritzt, darf keine schädliche Wirkung haben. |
| 4K | Geschützt gegen Spritzwasser mit erhöhtem Druck. | Wasser, das aus jeder Richtung mit erhöhtem Druck gegen das Gehäuse spritzt, darf keine schädliche Wirkung haben. (gilt nach DIN 40 050 Teil 9 nur für Straßenfahrzeuge) |
| 5 | Geschützt gegen Strahlwasser. | Wasser, das aus jeder Richtung als Strahl gegen das Gehäuse spritzt, darf keine schädliche Wirkung haben. |
| 6 | Geschützt gegen starkes Strahlwasser. | Wasser, das aus jeder Richtung als starker Strahl gegen das Gehäuse spritzt, darf keine schädliche Wirkung haben. |
| 6K | Geschützt gegen starkes Strahlwasser mit erhöhtem Druck. | Wasser, das aus jeder Richtung als Strahl mit erhöhtem Druck gegen das Gehäuse gerichtet ist, darf keine schädliche Wirkung haben. (gilt nach DIN 40050 Teil 9 nur für Straßenfahrzeuge) |
| 7 | Geschützt gegen die Wirkung beim zeitweiligen Untertauchen in Wasser. | Wasser darf nicht in einer Menge eintreten, die schädliche Wirkung verursacht, wenn das Gehäuse unter genormten Druck- und Zeitbedingungen zeitweilig in Wasser untergetaucht ist |
| 8 | Geschützt gegen die Wirkung beim dauernden Untertauchen in Wasser. | Wasser darf nicht in einer Menge eintreten, die schädliche Wirkung verursacht, wenn das Gehäuse dauernd unter Wasser getaucht ist unter Bedingungen, die zwischen Hersteller und Anwender vereinbart werden müssen. Die Bedingungen müssen jedoch schwieriger sein als für die Kennziffer 7. |
| 9K | Geschützt gegen Wasser bei Hochdruck-/Dampfstrahlreinigung. | Wasser, das aus jeder Richtung unter stark erhöhtem Druck gegen das Gehäuse gerichtet ist, darf keine schädliche Wirkung haben. (gilt nach DIN 40 050 Teil 9 nur für Straßenfahrzeuge) |

**Isolationskoordination für elektrische Betriebsmittel in Niederspannungsanlagen**
Bemessung der Luft- und Kriechstrecken nach DIN EN60664-1. (Die folgenden Seiten stellen lediglich einen Auszug der Norm dar und zeigen nicht den vollständigen Inhalt)

**Isolationskoordination**

Isolationskoordination umfasst die Auslegung der elektrischen Isolation eines Betriebsmittels hinsichtlich dessen Anwendung und Umgebung.
Dies geschieht einerseits durch Auslegung der Luftstrecken (Basis ist dabei die zu erwartende Überspannung), andererseits durch Auslegung der Kriechstrecken (Basis sind dafür die Betriebsspannungen sowie die Isolierstoffeigenschaften). Weiter werden isolationseigenschaft-verändernde Bedingungen berücksichtigt (Verschmutzung, Schutzmaßnahmen gegen Verschmutzung, Luftdruck, thermische oder chemische Beeinflussung ).

**Luftstrecken** werden nach der äußeren oder inneren zu erwartenden Überspannungen bemessen. Die 4 Überspannungsklassen (Überspannungskategorien I bis IV) berücksichtigen die unterschiedliche Verwendung eines Betriebsmittels. Die für die jeweilige Nennspannung des Versorgungsnetzes unterschiedliche Bemessungs-Stoßspannungen ist hierbei die Grundlage.
Je nach Homogenitätsgrad des Feldes zwischen den Elektroden (Fall A – inhomogenes Feld, Fall B – homogenes Feld) können die Luftstrecken aus Tabelle 2a (Mindestluftstrecken) bestimmt werden; Industiesteckverbinder werden immer nach dem „Fall A“ ausgelegt Der Einfluss durch Verschmutzung wird bei der Festlegung von Luft- und Kriechstrecken durch vier Schärfegrade (Verschmutzungsgrad 1 bis 4) berücksichtigt.

Grundlage der **Kriechstrecken** ist die aus der Betriebsspannung abgeleitete Bemessungsspannung.
Die Mindestkriechstrecken sind in Tabelle 4 den Bemessungsspannungen je nach Verschmutzungsgrad zugeordnet.
Enthalten die Produktbeschreibungen keine zusätzlichen Angaben, sind die in diesem Katalog aufgeführten Produkte nach dieser Bestimmung (DIN EN60664-1) für Überspannungskategorie III und Verschmutzungsgrad 3 bemessen.

**Überspannungskategorie I bis IV**

- Betriebsmittel der **Überspannungskategorie I** sind Waren zum Anschluss an die feste elektrische Installation eines Gebäudes. Es ist entweder in der festen Installation oder zwischen der festen Installation und dem Gerät, Maßnahmen zur Begrenzung der transienten Überspannungen getroffen worden.
- Betriebsmittel der **Überspannungskategorie II** sind energieverbrauchende Betriebsmittel, die von der festen Installation gespeist werden.
  Anmerkung: z. B. Haushaltsgeräte, tragbare Werkzeuge und andere Hausgeräte sowie ähnliche Verbraucher.
- Betriebsmittel der **Überspannungskategorie III** sind Bestandteil der festen Installation. Es sind Betriebsmittel, bei denen ein höherer Grad der Verfügbarkeit erwartet wird.
  Anmerkung: Beispiele für solche Geräte sind z.B. Industriesteckverbinder, Verteilertafeln, Leistungsschalter, Verteilungen, Schalter, Steckdosen).
- Geräte der **Überspannungskategorie IV** sind für den Einsatz am Anschlusspunkt der Installation bestimmt.
  Anmerkung: Beispiele für solche Geräte sind Elektrizitätszähler, Überstromschutzschalter und Rundsteuergeräte.

**Verschmutzungsgrad 1 bis 4**
In DIN EN60664-1 sind die Verschmutzungsgrade wie folgt definiert:

**Verschmutzungsgrad 1:**
Es tritt keine oder nur trockene, nicht leitfähige Verschmutzung auf. Die Verschmutzung hat keinen Einfluss.
**Verschmutzungsgrad 2:**
Es tritt nur nichtleitfähige Verschmutzung auf. Gelegentlich muss mit vorübergehender Leitfähigkeit durch Betauung gerechnet werden.
**Verschmutzungsgrad 3:**
Es tritt leitfähige Verschmutzung auf oder trockene, nichtleitfähige Verschmutzung, die leitfähig wird, da Betauung zu erwarten ist.
**Verschmutzungsgrad 4:**
Es tritt eine dauernde Leitfähigkeit auf, hervorgerufen durch leitfähigen Staub, Regen oder Nässe.

**Isolierstoff**
Die Isolierstoffe werden entsprechend ihren Vergleichszahlen der Kriechwegbildung (Comparativ Tracking Index) CTI in folgende vier Gruppen eingeteilt:

| | |
|---|---|
| Isolierstoff I: | $600 \leq CTI$ |
| Isolierstoff II: | $400 \leq CTI < 600$ |
| Isolierstoff III a: | $175 \leq CTI < 400$ |


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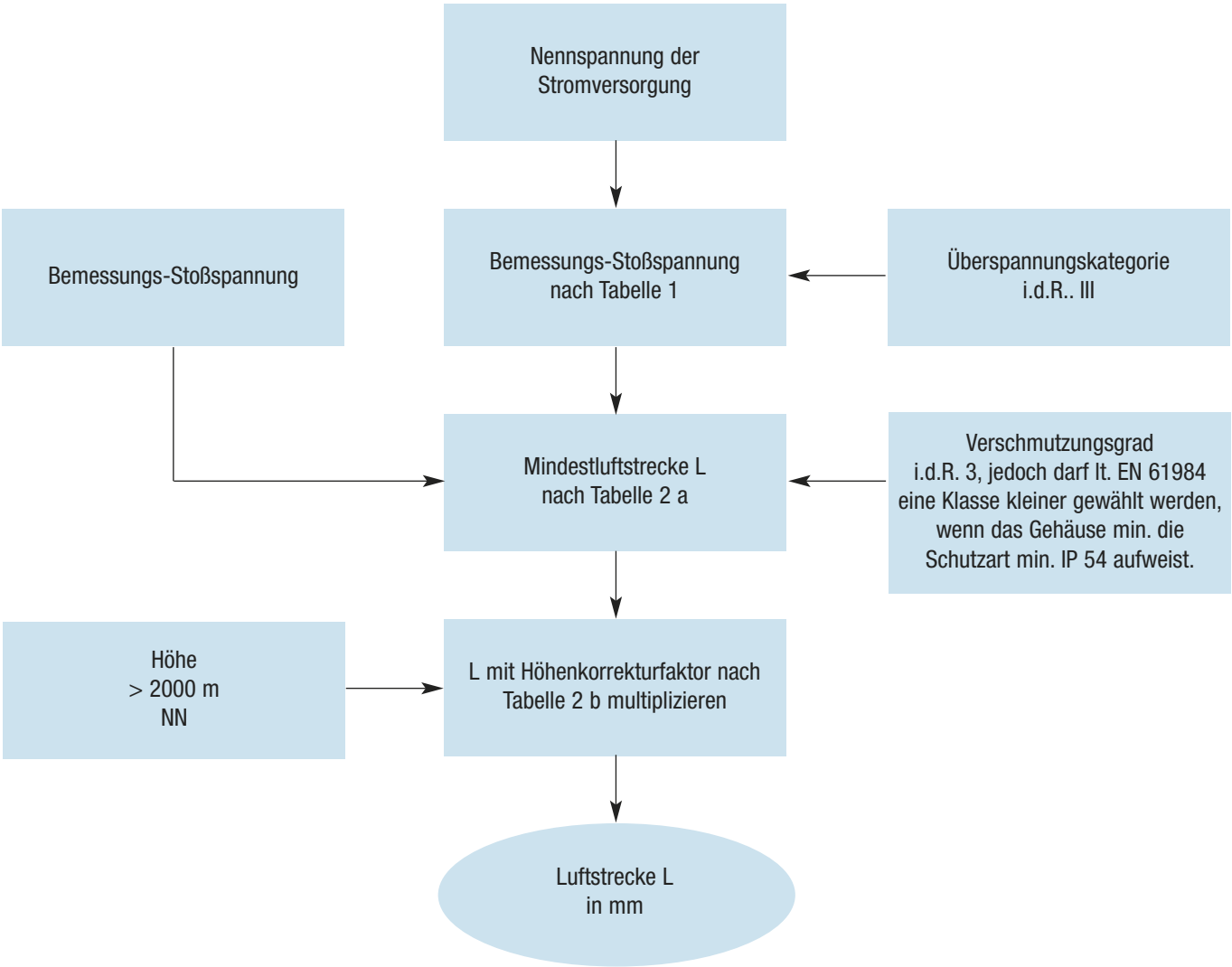
## Bemessung der Luftstrecken

**Schema zur Ermittlung der Luftstrecken**




| Bemessungs-Stoßspannung für Betriebsmittel (Tabelle 1) | | | | | |
|---|---|---|---|---|---|
| Nennspannung des Stromversorgungssystems *) in V | | Bemessungs-Stoßspannung in kV (1,2/50ms) für | | | |
| Dreiphasige Systeme | Einphasige Systeme im Mittelpunkt | Betriebsmittel an der Einspeisung der Installation (Überspannungs-Kategorie IV) | Betriebsmittel als Teil der festen Installation (Überspannungs-Kategorie III) | Betriebsmittel zum Anschluss an die feste Installation (Überspannungs-Kategorie II) | Besonders geschützte Betriebsmittel (Überspannungs-Kategorie I) |
| | 120 bis 240 | 4 | 2,5 | 1,5 | 0,8 |
| 230/400** 277/480** | | 6 | 4 | 2,5 | 1,5 |
| 400/690** | | 8 | 6 | 4 | 2,5 |
| 1000 | | 12 | 8 | 6 | 4 |

*) ausgewählte Spannungswerte
**) der / Strich bzeichnet ein Dreiphasen-Leitersystem. Der tiefere Wert ist die Spannung Leiter zu Neutralleiter, wärend der höhere Wert die Spannung Leiter zu Leiter ist

| Mindestluftstrecken für die Isolationskoordination (Tabelle 2 a) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Erforderliche Steh-Stoßspannung 1) [kV] | Fall A (inhomogenes Feld) Verschmutzungsgrad | | | | Fall B (homogenes Feld) Verschmutzungsgrad | | | |
| | 1 [mm] | 2 [mm] | 3 [mm] | 4 [mm] | 1 [mm] | 2 [mm] | 3 [mm] | 4 [mm] |
| 0,33 _) | 0,01 | _) | | | 0,01 | _) | | |
| 0,40 | 0,02 | | | | 0,02 | | | |
| 0,5 _) | 0,04 | | | | 0,04 | | | |
| 0,60 | 0,06 | | | | 0,06 | | | |
| 0,80 _) | 0,10 | 0,2 | 0,80 | | 0,10 | 0,2 | 0,8 | |
| 1,0 | 0,15 | | | 1,6 | 0,15 | | | 1,6 |
| 1,2 | 0,25 | 0,25 | | | 0,2 | | | |
| 1,5 _) | 0,5 | 0,5 | | | 0,3 | 0,3 | | |
| 2,0 | 1,0 | 1,0 | 1,0 | | 0,45 | 0,5 | | |
| 2,5 _) | 1,5 | 1,5 | 1,5 | | 0,6 | 0,6 | | |
| 3,0 | 2 | 2 | 2 | 2 | 0,8 | 0,8 | | |
| 4,0 _) | 3 | 3 | 3 | 3 | 1,2 | 1,2 | 1,2 | |
| 5,0 | 4 | 4 | 4 | 4 | 1,5 | 1,5 | 1,5 | |
| 6,0 _) | 5,5 | 5,5 | 5,5 | 5,5 | 2 | 2 | 2 | 2 |
| 8,0 _) | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 |
| 10 | 11 | 11 | 11 | 11 | 3,5 | 3,5 | 3,5 | 3,5 |
| 12 _) | 14 | 14 | 14 | 14 | 4,5 | 4,5 | 4,5 | 4,5 |
| 15 | 18 | 18 | 18 | 18 | 5,5 | 5,5 | 5,5 | 5,5 |
| 20 | 25 | 25 | 25 | 25 | 8 | 8 | 8 | 8 |
| 25 | 33 | 33 | 33 | 33 | 10 | 10 | 10 | 10 |
| 30 | 40 | 40 | 40 | 40 | 12,5 | 12,5 | 12,5 | 12,5 |
| 40 | 60 | 60 | 60 | 60 | 17 | 17 | 17 | 17 |
| 50 | 75 | 75 | 75 | 75 | 22 | 22 | 22 | 22 |
| 60 | 90 | 90 | 90 | 90 | 27 | 27 | 27 | 27 |
| 80 | 130 | 130 | 130 | 130 | 35 | 35 | 35 | 35 |
| 100 | 170 | 170 | 170 | 170 | 45 | 45 | 45 | 45 |

1)Die Spannung ist
- für Funktionsisolierung: die höchste an der Luftstrecke zu erwartende Stoßspannung;
- für Basisisolierung, falls direkt oder wesentlich beeinflußt durch transiente Überspannung aus dem Niederspannungsnetz: die Bemessungs-Stoßspannung des Betriebsmittels;
- für andere Basisisolierung: die höchste Stoßspannung, die im Stromkreis auftreten kann;

_) Vorzugswerte

| Höhen-Korrekturfaktoren (Tabelle 2 b) | | |
|---|---|---|
| Höhe in m | Normaler Luftdruck in kPa | Multiplikationsfaktor für Abstände |
| 2000 | 80,0 | 1,00 |
| 3000 | 70,0 | 1,14 |
| 4000 | 62,0 | 1,29 |
| 5000 | 54,0 | 1,48 |
| 6000 | 47,0 | 1,70 |
| 7000 | 41,0 | 1,95 |
| 8000 | 35,5 | 2,25 |
| 9000 | 30,5 | 2,62 |
| 10000 | 26,5 | 3,02 |
| 15000 | 12,0 | 6,67 |
| 20000 | 5,5 | 14,50 |



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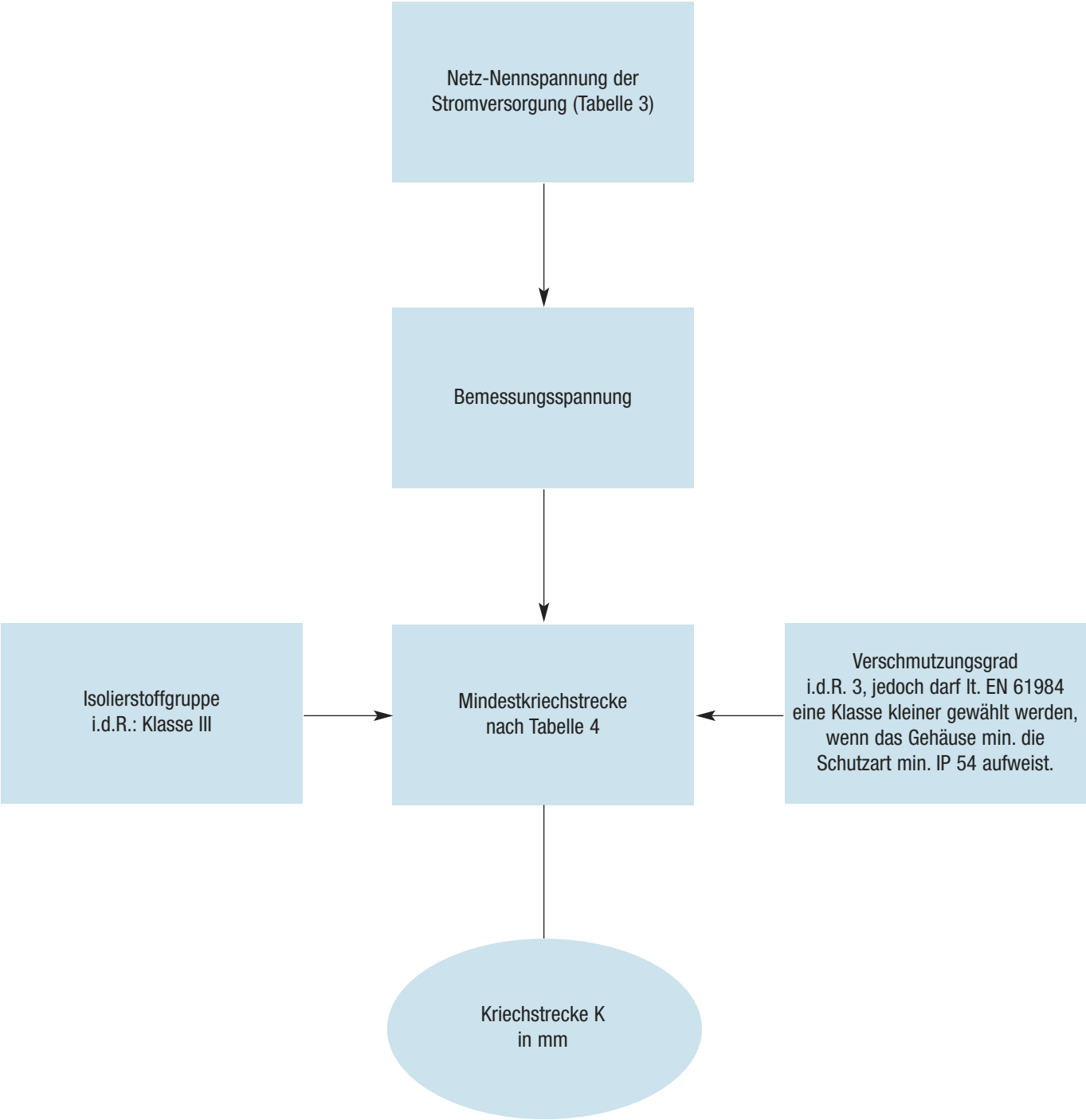
## Bemessung der Kriechstrecke

**Vereinfachtes Schema zur Ermittlung der Kriechstrecke**



| Netz-Nennspannung der Stromversorgung* [V] | Bemessungsspannung [V] |
|---|---|
| 60 | 63 |
| 110/120/127 | 125 |
| 150 | 160 |
| 208 | 200 |
| 220/230/240 | 250 |
| 300 | 320 |
| 380/400/415 | 400 |
| 440 | 500 |
| 480/500 | 500 |
| 575 | 630 |
| 600 | 630 |
| 660/690 | 630 |
| 720/830 | 800 |
| 960 | 1000 |
| 1000 | 1000 |

Tabelle 3

* die Auswahl stellt nicht den vollständigen Zusammenhang zwischen allen möglichen weltweit verwendeten Netzformen und der Bemessungsspannung dar

| **Mindestkriechstrecke für Betriebsmittel mit langzeitiger Spannungsbeanspruchung** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bemessungs Spannung [V] | Verschmutzungsgrad | | | | | | | | | |
| | 1 | 2 Isolierstoffgruppe | | | 3 Isolierstoffgruppe | | | 4 Isolierstoffgruppe | | |
| | I) | I | II | III | I | II | III | I | II | III |
| 10 | 0,08 | 0,40 | 0,40 | 0,40 | 1,00 | 1,00 | 1,00 | 1,6 | 1,6 | 1,6 |
| 12,5 | 0,09 | 0,42 | 0,42 | 0,42 | 1,05 | 1,05 | 1,05 | 1,6 | 1,6 | 1,6 |
| 16 | 0,10 | 0,45 | 0,45 | 0,45 | 1,10 | 1,10 | 1,10 | 1,6 | 1,6 | 1,6 |
| 20 | 0,110 | 0,48 | 0,48 | 0,48 | 1,20 | 1,20 | 1,20 | 1,6 | 1,6 | 1,6 |
| 25 | 0,125 | 0,50 | 0,50 | 0,50 | 1,25 | 1,25 | 1,25 | 1,7 | 1,7 | 1,7 |
| 32 | 0,140 | 0,53 | 0,53 | 0,53 | 1,30 | 1,30 | 1,30 | 1,8 | 1,8 | 1,8 |
| 40 | 0,16 | 0,56 | 0,80 | 1,10 | 1,4 | 1,6 | 1,8 | 1,9 | 2,4 | 3,0 |
| 50 | 0,18 | 0,60 | 0,85 | 1,20 | 1,5 | 1,7 | 1,9 | 2,0 | 2,5 | 3,2 |
| 63 | 0,20 | 0,63 | 0,90 | 1,25 | 1,6 | 1,8 | 2,0 | 2,1 | 2,6 | 3,4 |
| 80 | 0,22 | 0,67 | 0,95 | 1,3 | 1,7 | 1,9 | 2,1 | 2,2 | 2,8 | 3,6 |
| 100 | 0,25 | 0,71 | 1,00 | 1,4 | 1,8 | 2,0 | 2,2 | 2,4 | 3,0 | 3,8 |
| 125 | 0,28 | 0,75 | 1,05 | 1,5 | 1,9 | 2,1 | 2,4 | 2,5 | 3,2 | 4,0 |
| 160 | 0,32 | 0,80 | 1,1 | 1,6 | 2,0 | 2,2 | 2,5 | 3,2 | 4,0 | 5,0 |
| 200 | 0,42 | 1,00 | 1,4 | 2,0 | 2,5 | 2,8 | 3,2 | 4,0 | 5,0 | 6,3 |
| 250 | 0,56 | 1,25 | 1,8 | 2,5 | 3,2 | 3,6 | 4,0 | 5,0 | 6,3 | 8,0 |
| 320 | 0,75 | 1,60 | 2,2 | 3,2 | 4,0 | 4,5 | 5,0 | 6,3 | 8,0 | 10,0 |
| 400 | 1,00 | 2,00 | 2,8 | 4,0 | 5,0 | 5,6 | 6,3 | 8,0 | 10,0 | 12,5 |
| 500 | 1,30 | 2,50 | 3,6 | 5,0 | 6,3 | 7,1 | 8,0 | 10,0 | 12,5 | 16,0 |
| 630 | 1,8 | 3,2 | 4,5 | 6,3 | 8,0 | 9 | 10,0 | 12,5 | 16 | 20 |
| 800 | 2,4 | 4,0 | 5,6 | 8,0 | 10,0 | 11 | 12,5 | 16,0 | 20 | 25 |
| 1000 | 3,2 | 5,0 | 7,1 | 10,0 | 12,5 | 14 | 16,0 | 20,0 | 25 | 32 |

Tabelle 4



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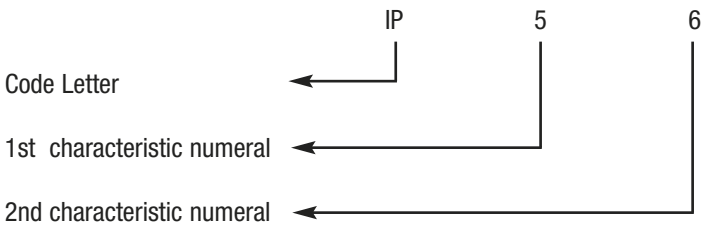
## Degree of protection provided by enclosures

For safety reasons, electrical equipment needs to be protected against outside influences. The basis for the determination is the standard IEC 529 titled ‘Degree of protection provided by enclosures (IP – Code)'.

Using a standardized test procedure the extent of the protection class is verified. To classify different housings according to their protection class, a designation system is used which consists of the code – letters 'IP' and two code numbers.

**Arrangement of the IP – Code (International bzw. Ingress Protection)**




**Meaning of the 1st characteristic numeral**

The first numeral describes the protection of the housing against intrusion of foreign bodies as well as the protection of people against dangerous parts or influences. Because of this, there are two descriptions and definitions for each of the first code letter.

| 1st numeral | Protection against solid obects and against access to hazardous parts | |
|---|---|---|
| | short description | definition |
| **0** | no protection | |
| **1** | -protection against solid foreign bodies of Ø 50mm<br>-protection against access to hazardous parts with the back of a hand | A sphere of Ø 50mm, must not intrude |
| **2** | -protection against solid foreign bodies of Ø 12 mm<br>-protection against access to hazardous parts with the finger | A sphere of Ø 12mm diameter, must not intrude |
| **3** | -protection against solid foreign bodies of 2,5 mm diameter and bigger<br>-protection against access to hazardous parts with a tool | A sphere of Ø 2,5mm diameter, must not intrude |
| **4** | -protection against solid foreign bodies of 1,0 mm diameter and bigger<br>-protection against access to hazardous parts with a wire | The probe, sphere of Ø 1,0mm, must not intrude |
| **5** | protected against dust | The infiltration of dust is not completely prevented, but it does not infiltrate to such an extent that the operation or the safety of the device is affected. |
| **6** | dust proof | No infiltration of dust |

**Meaning of the 2nd characteristic numeral**

The second numeral describes the protection of the housing against the intrusion of water with harmful effects.

| second code digit | Protection degrees against the intrusion of water, designated by the second code digit | |
|---|---|---|
| | short description | definition |
| **0** | not protected | |
| **1** | protected against dripping water | Vertically falling drops shall have not harmful effects. |
| **2** | protected against dripping water when the housing is at an angle of up to 15° | Vertically falling drops shall have not harmful effects when the enclosure is tiled upto 15° |
| **3** | protected against water spray | Water sprayed at an angle up to 60°, shall have no harmful effects |
| **4** | protected against splash water | Water splashed against the enclosure from any direction shall have no harmful effects |
| **4K** | protected against splash water with increased pressure | Water splashed against the enclosure with increased pressure from any direction shall have no harmful effects (Applies acc to DIN 40050 - 9 only for road vehicles) |
| **5** | protected against jets of water | water splashes against the enclosure from any direction as a water jet shall have no harmful effects |
| **6** | protected against strong jets of water | water splashes against the enclosure from any direction as a strong water jet shall have no harmful effects |
| **6K** | protected against strong jets of water with increased pressure | water splashes directly against the enclosure from any direction as a strong water jet with increased pressure, shall have no harmful effects (Applies acc to DIN 40050 - 9 only for road vehicles) |
| **7** | protection against the effects of temporary submersion in water | Quantity of water that ingresses an enclosure, when it is temporarily immersed under standardized conditions of pressure and time, shall have no harmful effects. |
| **8** | protection against the effects of continuous submersion in water | Quantity of water that ingresses an enclosure, when it is continuously immersed under conditions of pressure and time, shall have no harmful effects. The conditions must, however be harder than for code digit 7 and agreed between user and producer. |
| **9K** | Protected against water during high-pressure / jet-stream cleaning. | Water that is directed against the housing with greatly increased pressure from any direction must not have any detrimental effect (Applies acc to DIN 40050 - 9 only for road vehicles) |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**Insulation Coordination for Electrical Connectors in Low Voltage Plants**
Dimensioning of Clearance and Creeping Distances acc. to DIN EN60664-1; following pages show only a part of the standards

**Insulation Coordination**

Insulation coordination includes the design of the electrical insulation of a connector depending on its use and environment.
This occurs either by design of the clearance distances (basis is the expected power surge) or by design of the creeping distance (basis is the operating voltage as well as the quality of the insulating material). Furthermore, insulation-changing conditions are taken into account (pollution, protective measures against pollution, air pressure, thermal or chemical influences).

Air distances are measured according to the outer or inner power surge expected. The four power surge classes (power surge categories I to IV) take the different use of the connector into account.
Depending on the homogeneity of the field between the electrodes (case A – inhomogenous field, case B – homogenous field) the air distances can be determined according to table 2a (minimum air distances); industrial connectors are always determined according to case A.

The influence from pollution when determining the air- and **creeping distances** is taken into account by using four degrees of severity (pollution degree 1 to 4).

Basis of the creeping distances is the rated voltage which is deduced from the operating voltage.
The minimum creeping distances are allocated in table 4 depending on the severity of pollution.
If the product descriptions do not contain any additional information the products listed in this catalogue were rated according to norm DIN VDE 0110 for surge category III and severity of pollution 3.

**Surge Category I to IV**

- resources of surge category I are goods for the termination of fixed electrical installations of a building. Measures for the limitation of transient surges were taken either in the fixed installation or between the fixed installation and the equipment.
- resources of surge category II are resources which use power and are fed from a fixed installation.
  Note: e. g. domestic applicances, portable tools and other appliances as well as similar consumers.
- resources of surge category III are part of a fixed installation. They are resources from which a high degree of availability is expected.
  Note: Examples for such appliances are e.g. industrial connectors, distribution panels, power switches, distributors, switches, sockets).
- Devices of surge category IV are for use at the supply terminal of the installation.
  Note: Examples for such appliances are electricity counters, overload cut-out switches and Rundsteuergeräte.

**Pollution Degree 1 to 4**
DIN VDE 0110 defines the pollution degrees as follows: :

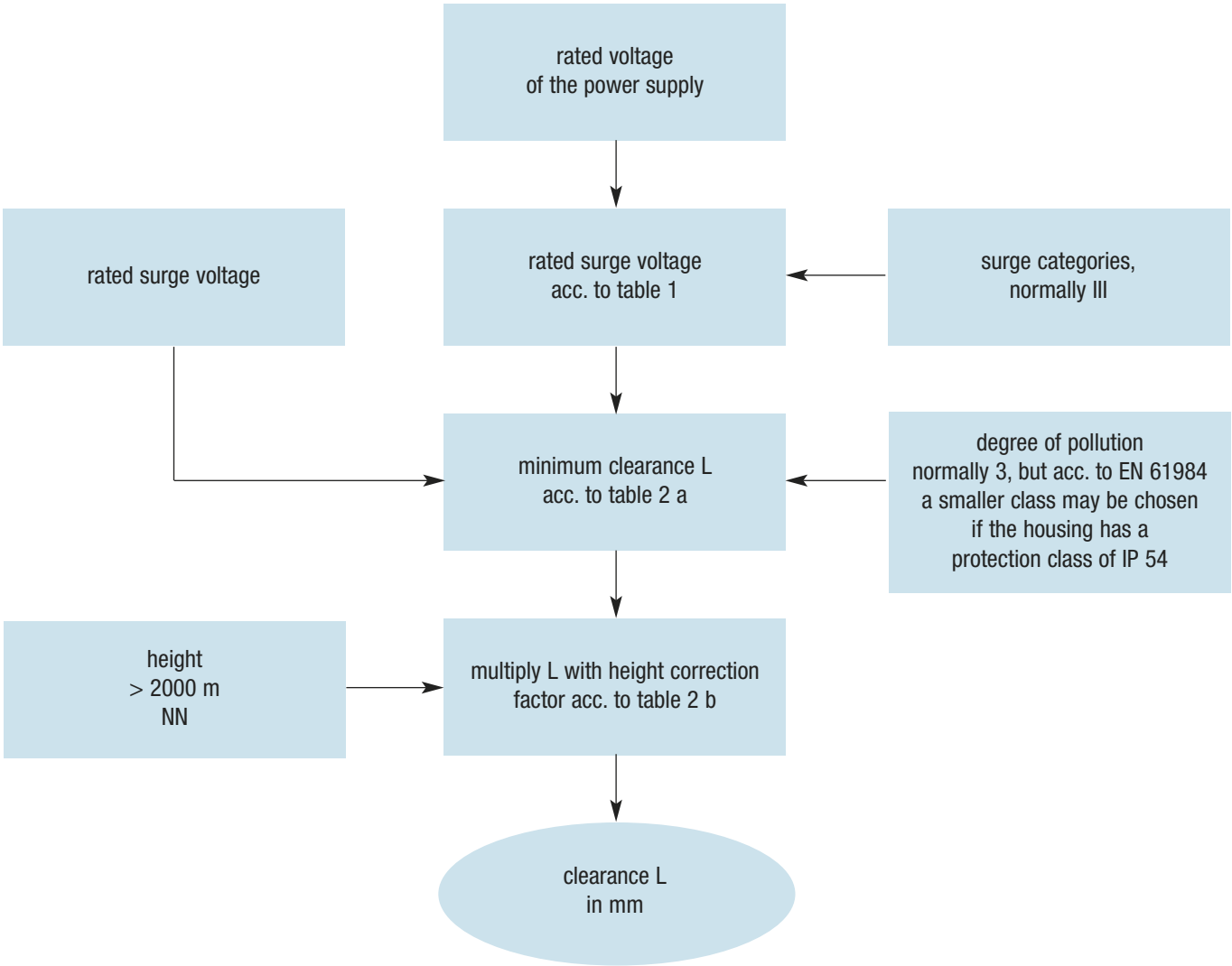
**Pollution Degree 1:**
There is no or only dry, non-conductive pollution. The pollution is without influence.
**Pollution Degree 2:**
There is only non-conductive pollution. Occasional momentary conductivity due to condensation.
**Pollution Degree 3:**
There is conductive pollution or dry non-conductive pollution, which becomes conductive due to condensation.
**Pollution Degree 4:**
There is a continuous conductivity due to conductive dust, rain or moisture.

**Insulation Material**
The insulation materials are divided into the following four groups depending on their comparative tracking index (CTI) :

| | |
|---|---|
| Insulation material I: | $600 \leq CTI$ |
| Insulation material II: | $400 \leq CTI < 600$ |
| Insulation material III a: | $175 \leq CTI < 400$ |

## Measurement of Clearances

**Diagram for the Determination of Clearances**




| Rated Surge Voltage for Utilities | | | | | |
|---|---|---|---|---|---|
| rated voltage of the power supply *) in V | | Rated Surge Voltage in kV (1,2/50ms) for | | | |
| 3-phase systems | single systems in the centre | utilities at the feed of the installation (surge category IV) | utilities as part of a fixed installation (surge category III) | utilites for connection to fixed installations (surge category II) | Specially protected utilities (surge category I) |
| | 120 up to 240 | 4 | 2,5 | 1,5 | 0,8 |
| 230/400**<br>277/480** | | 6 | 4 | 2,5 | 1,5 |
| 400/690** | | 8 | 6 | 4 | 2,5 |
| 1000 | | 12 | 8 | 6 | 4 |

*) chosen voltage values
**) the / dash is for a 3-phase system with 4 lines. The lower value is for phase to neutral, the higher value is for phase to phase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| minimum clearance in air at installation heights of up to 2000 m above sea leavel (NN) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| "rated surge voltage [kV]" | case A inhomogenous field) degree of pollution | | | | case B homogenous field) degree of pollution | | | |
| | 1 (mm) | 2 (mm) | 3 (mm) | 4 (mm) | 1 (mm) | 2 (mm) | 3 (mm) | 4 (mm) |
| 0,33 _) | 0,01 | _) | | | 0,01 | _) | | |
| 0,40 | 0,02 | | | | 0,02 | | | |
| 0,5 _) | 0,04 | | | | 0,04 | | | |
| 0,60 | 0,06 | | | | 0,06 | | | |
| 0,80 _) | 0,10 | 0,2 | 0,80 | | 0,10 | 0,2 | 0,8 | |
| 1,0 | 0,15 | | | 1,6 | 0,15 | | | 1,6 |
| 1,2 | 0,25 | 0,25 | | | 0,2 | | | |
| 1,5 _) | 0,5 | 0,5 | | | 0,3 | 0,3 | | |
| 2,0 | 1,0 | 1,0 | 1,0 | | 0,45 | 0,5 | | |
| 2,5 _) | 1,5 | 1,5 | 1,5 | | 0,6 | 0,6 | | |
| 3,0 | 2 | 2 | 2 | 2 | 0,8 | 0,8 | | |
| 4,0 _) | 3 | 3 | 3 | 3 | 1,2 | 1,2 | 1,2 | |
| 5,0 | 4 | 4 | 4 | 4 | 1,5 | 1,5 | 1,5 | |
| 6,0 _) | 5,5 | 5,5 | 5,5 | 5,5 | 2 | 2 | 2 | 2 |
| 8,0 _) | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 |
| 10 | 11 | 11 | 11 | 11 | 3,5 | 3,5 | 3,5 | 3,5 |
| 12 _) | 14 | 14 | 14 | 14 | 4,5 | 4,5 | 4,5 | 4,5 |
| 15 | 18 | 18 | 18 | 18 | 5,5 | 5,5 | 5,5 | 5,5 |
| 20 | 25 | 25 | 25 | 25 | 8 | 8 | 8 | 8 |
| 25 | 33 | 33 | 33 | 33 | 10 | 10 | 10 | 10 |
| 30 | 40 | 40 | 40 | 40 | 12,5 | 12,5 | 12,5 | 12,5 |
| 40 | 60 | 60 | 60 | 60 | 17 | 17 | 17 | 17 |
| 50 | 75 | 75 | 75 | 75 | 22 | 22 | 22 | 22 |
| 60 | 90 | 90 | 90 | 90 | 27 | 27 | 27 | 27 |
| 80 | 130 | 130 | 130 | 130 | 35 | 35 | 35 | 35 |
| 100 | 170 | 170 | 170 | 170 | 45 | 45 | 45 | 45 |

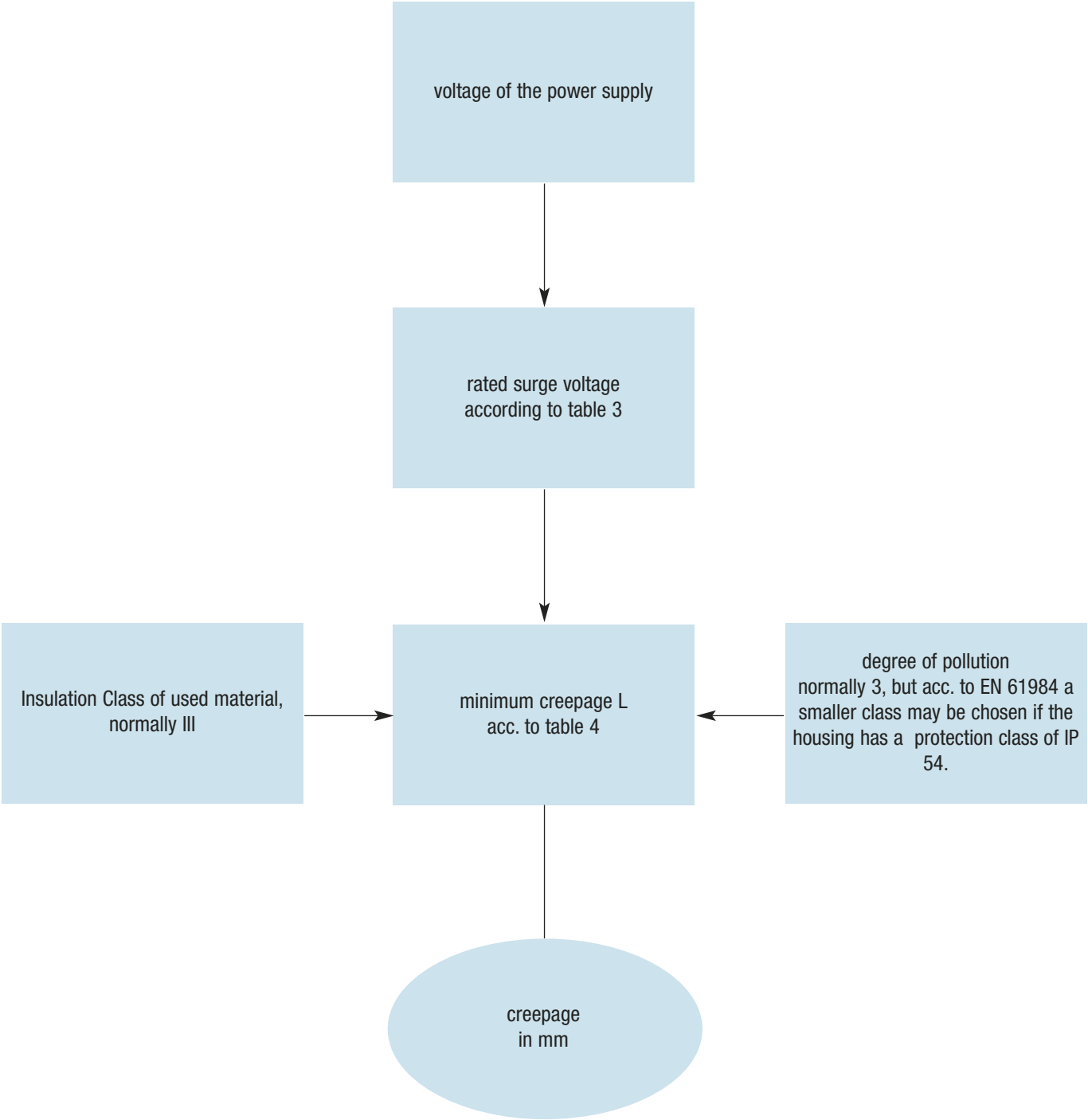
1)This voltage is
- for functional insulation:
  the maximum impulse voltage expected to occur across the clearance
- for basic insulation directly exposed by transient overvoltages
- for other basic insulation

_) Preferred values

| Factors for Height Correction | | |
|---|---|---|
| height in m | normal air pressure in kPa | multiplication factor for distances |
| 2000 | 80,0 | 1,00 |
| 3000 | 70,0 | 1,14 |
| 4000 | 62,0 | 1,29 |
| 5000 | 54,0 | 1,48 |
| 6000 | 47,0 | 1,70 |
| 7000 | 41,0 | 1,95 |
| 8000 | 35,5 | 2,25 |
| 9000 | 30,5 | 2,62 |
| 10000 | 26,5 | 3,02 |
| 15000 | 12,0 | 6,67 |
| 20000 | 5,5 | 14,50 |

## Measurement of creepage

**Diagram for the Determination of creepage**





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| voltage of the power supply [V] | Rated voltage [V] |
|---|---|
| 60 | 63 |
| 110/120/127 | 125 |
| 150 | 160 |
| 208 | 200 |
| 220/230/240 | 250 |
| 300 | 320 |
| 380/400/415 | 400 |
| 440 | 500 |
| 480/500 | 500 |
| 575 | 630 |
| 600 | 630 |
| 660/690 | 630 |
| 720/830 | 800 |
| 960 | 1000 |
| 1000 | 1000 |

Table 3

* the above shown table does not give the entire correlation of word-wide used networks and rated voltages; it is reduced to the most common ones; further details, see DIN EN60664-1

| Creepages in [mm] for electrical Equipments | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | degree of pollution | | | | | | | | | |
| rated voltage [V] | 1 All Insulater classes | 2 Insulation Class | | | 3 Insulation Class | | | 4 Insulation Class | | |
| | | I | II | III | I | II | III | I | II | III |
| 10 | 0,08 | 0,40 | 0,40 | 0,40 | 1,00 | 1,00 | 1,00 | 1,6 | 1,6 | 1,6 |
| 12,5 | 0,09 | 0,42 | 0,42 | 0,42 | 1,05 | 1,05 | 1,05 | 1,6 | 1,6 | 1,6 |
| 16 | 0,10 | 0,45 | 0,45 | 0,45 | 1,10 | 1,10 | 1,10 | 1,6 | 1,6 | 1,6 |
| 20 | 0,110 | 0,48 | 0,48 | 0,48 | 1,20 | 1,20 | 1,20 | 1,6 | 1,6 | 1,6 |
| 25 | 0,125 | 0,50 | 0,50 | 0,50 | 1,25 | 1,25 | 1,25 | 1,7 | 1,7 | 1,7 |
| 32 | 0,140 | 0,53 | 0,53 | 0,53 | 1,30 | 1,30 | 1,30 | 1,8 | 1,8 | 1,8 |
| 40 | 0,16 | 0,56 | 0,80 | 1,10 | 1,4 | 1,6 | 1,8 | 1,9 | 2,4 | 3,0 |
| 50 | 0,18 | 0,60 | 0,85 | 1,20 | 1,5 | 1,7 | 1,9 | 2,0 | 2,5 | 3,2 |
| 63 | 0,20 | 0,63 | 0,90 | 1,25 | 1,6 | 1,8 | 2,0 | 2,1 | 2,6 | 3,4 |
| 80 | 0,22 | 0,67 | 0,95 | 1,3 | 1,7 | 1,9 | 2,1 | 2,2 | 2,8 | 3,6 |
| 100 | 0,25 | 0,71 | 1,00 | 1,4 | 1,8 | 2,0 | 2,2 | 2,4 | 3,0 | 3,8 |
| 125 | 0,28 | 0,75 | 1,05 | 1,5 | 1,9 | 2,1 | 2,4 | 2,5 | 3,2 | 4,0 |
| 160 | 0,32 | 0,80 | 1,1 | 1,6 | 2,0 | 2,2 | 2,5 | 3,2 | 4,0 | 5,0 |
| 200 | 0,42 | 1,00 | 1,4 | 2,0 | 2,5 | 2,8 | 3,2 | 4,0 | 5,0 | 6,3 |
| 250 | 0,56 | 1,25 | 1,8 | 2,5 | 3,2 | 3,6 | 4,0 | 5,0 | 6,3 | 8,0 |
| 320 | 0,75 | 1,60 | 2,2 | 3,2 | 4,0 | 4,5 | 5,0 | 6,3 | 8,0 | 10,0 |
| 400 | 1,00 | 2,00 | 2,8 | 4,0 | 5,0 | 5,6 | 6,3 | 8,0 | 10,0 | 12,5 |
| 500 | 1,30 | 2,50 | 3,6 | 5,0 | 6,3 | 7,1 | 8,0 | 10,0 | 12,5 | 16,0 |
| 630 | 1,8 | 3,2 | 4,5 | 6,3 | 8,0 | 9 | 10,0 | 12,5 | 16 | 20 |
| 800 | 2,4 | 4,0 | 5,6 | 8,0 | 10,0 | 11 | 12,5 | 16,0 | 20 | 25 |
| 1000 | 3,2 | 5,0 | 7,1 | 10,0 | 12,5 | 14 | 16,0 | 20,0 | 25 | 32 |

Table 4

## Technische Kennwerte Serie HF/*Technical specifications Series: HF*

**Crimphülse**

- Optimale Materialanpassung entsprechend der Kundenapplikation
- Anpassung auf spezielle Leiterquerschnitte und Verarbeitungswerkzeuge
- Verwendung der gleichen Crimphülse für Stift-, Buchsen- und Erdkontakt
- Robuste widerstandsfähige Crimphülse für vielfältige Industrieapplikationen

Stiftkontakt

❷ Kontaktträger

❸ Adapter

❹ Crimphülse

**Stift-/ Buchsenkontakt**

- Verschleißarmes Basismaterial
- Austausch der Einzelteile durch modularen Aufbau
- Oberflächenveredlung gemäß Kundenapplikationsforderung
- Reduzierung der Steck-/Ziehkräfte um 30%
- Erhöhung der Steckzyklen um 50%
- Variable Anschlußtechnik

***Crimp ferrule***

- *Optimum material adaptation according to customer's application*
- *Adaptation to special customer wire size and crimping tools*
- *Same crimp ferrule for male, female and grounding contact*
- *Robust crimp ferrule for toughindustrial applications*

*Male contact*

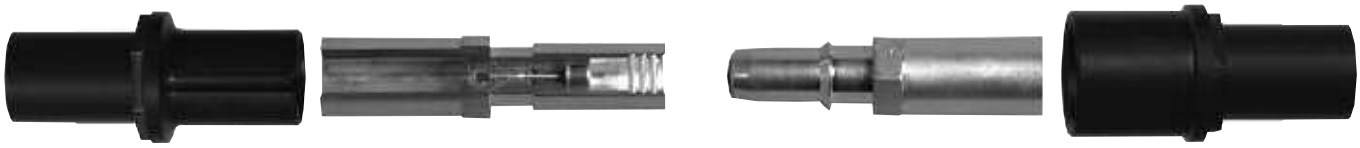
❷ *Insulating material plastic*

❸ *Adapter*

❹ *Crimp ferrule*

***Male/female contact***

- *Wear-resistant basic material*
- *Worn parts can be individually exchanged*
- *Surface coating according to customer application*
- *30% reducted mating and pulling forces*
- *50% increase of making cycles*
- *Variable wire termination*



| | |
|---|---|
| **Bemessungsstrom** | 350 A |
| **Bemessungsspannung** | 1000 V~, Isolationsgruppe C |
| **Prüfspannung** | 3 (C) |
| **Prüfspannung $U_{eff}$** | 3 kV |
| **Durchgangswiderstand** | ≤ 1 mΩ |
| **Isolationswiderstand** | ≥ $10^{10}$Ω |
| **Temperaturbereich** | - 40°C + 125°C<br>Die obere Grenztemperatur schließt die Kontakterwärmung und Erwärmung durch Umgebungstemperatur ein |
| **Kabel Anschluß** | Crimpanschluß 50 - 150 mm² |
| **Werkstoffe** | |
| **Kontakteinsätze** | thermoplastischer Formstoff glasfaserverstärkt (UL-gelistet) V-0 |
| **Kontaktelemente** | Kupferlegierung |
| **Kontaktoberfläche** | hartversilbert |

| | |
|---|---|
| ***Rated current*** | *350 A* |
| ***Rated voltage*** | *1000V~, insulation group C* |
| ***Test voltage*** | *3 (C)* |
| ***Test voltage $U_{rms}$*** | *3 kV* |
| ***Volume resistance*** | *≤ 1 mΩ* |
| ***Insulation resistance*** | *≥ $10^{10}$Ω* |
| ***Temperature range*** | *- 40°C + 125°C*<br>*The maximal limit temperature includes contact heat-up and heat-up caused by ambient temperature.* |
| ***Wire termination*** | *Crimp terminal 50 - 150 mm²* |
| ***Materials*** | |
| ***Contact inserts*** | *thermoplastic material glass-fibre reinforced (UL listed) V-0* |
| ***Contact elements*** | *copper alloy* |
| ***Contact surfaces*** | *hard-silver-plated* |

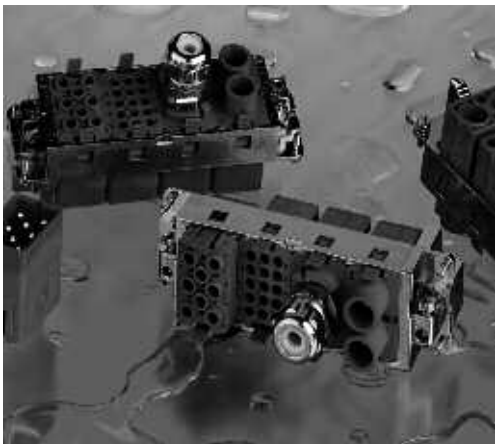
| Kontaktzahlen/ *No. of contacts* | 8 | 14 | 23 | 35 | 48 |
|---|---|---|---|---|---|
| Baugröße/ *Size* | 3 | 4 | 6 | 8 | 8 |



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Technische Kennwerte Serie MDL/*Technical specifications series MDL*

- Modular aufgebaute Kontakteinsätze - Baugröße 3-4-6-8-10-12
- Optimale Flexibilität, leichtes Handling, schnelle Montage
- Rationelle Mischbestückung zur Lösung anwenderspezifischer Kundenanforderungen
- Halterahmen zur Aufnahme der variabel einsetzbaren Module, baugleich für Ober- und Unterteil
- Reduzierung der Lagerbestandskosten
- Polarisierter Einsatz der Module in einem Halterahmen
- Leistungs- und Signalübertragung über einen Steckverbinder
- Voreilende Schutzkontakte
- Elektromagnetisch verträgliche Module für Bussystem-Schnittstellen



- *Modular contact inserts – sizes 3-4-6-8-10-12*
- *Optimum flexibility, easy handling, quick assembly*
- *Rational mixing of connectors, i. e. application specific customer requirements can be solved*
- *Fixing frame to hold the interchangeable modules, same design for upper and lower part*
- *Storage costs are reduced*
- *Polarized use of the modules in a fixing frame*
- *Power- and signal transmission with one connector*
- *Leading grounding contact*
- *Modules, tolerant to electro-magnetic waves, for bus system interfaces*

| | |
|---|---|
| **Vorschriften** | DIN VDE 0110 für Luft- und Kriechstrecken<br>DIN VDE 0627 für Steckverbinder und Steckvorrichtungen |
| **Zulassungen** | UL, CSA |
| **Modulbaustein** | |
| **Verschmutzungsgrad** | 3 |
| **Werkstoff** | thermoplastischer Formstoff |
| **Temperaturbereich** | - 40°C + 125°C |
| **Brennbarkeit** | nach UL 94 V-0 |

| | |
|---|---|
| ***Regulations*** | *DIN VDE 0110 for clearance and tracking distance*<br>*DIN VDE 0627 for connectors, plugs and sockets* |
| ***Approvals*** | ***UL, CSA*** |
| ***Module element*** | |
| ***Degree of contamination*** | *3* |
| ***Material*** | *thermoplastics* |
| ***Temperature range*** | *- 40°C + 125°C* |
| ***Flammable*** | *acc. to UL 94 V-0* |

| **Modulbausteine**<br>***Module elements*** | **Modulbezeichnung**<br>***Moduldesignation*** | **Elektrische Kennwerte/Pneumatic**<br>***Electrical ratings/Pneumatic*** | **Kontaktzahlen**<br>***No. of contacts*** |
|---|---|---|---|
| Last/Signal/*Power Signal* | MDL-HF 1+2 | 1 x (150A/1000V), 2 x (10A/250V) | 3 |
| Last/Signal/*Power Signal* | MDL-HSS 2+2 | 2 x (63A/1000V), 2 x (10A/250V) | 4 |
| Last/Signal/*Power Signal* | MDL-HSM 3 + 4 | 3 x (40A/1000V), 4 x (10A/250V) | 7 |
| Pneumatik/*Pneumatic* | MDL-AIR | 10 bar, NW = 4,0 | 2 |
| Signal/*Signal* | MDL-HN.D | 15 x (10A/400V) | 15, 18 |
| Signal/*Signal* | MDL-HD | 18 x (10A/250V) | 15, 18 |
| LWL/*Optical transmission* | MDL-LWL | | 18 |
| Signal/*Signal* | MDL-HVT | 8 x (16A/400V) | 8 |
| Signal/*Signal* | MDL-Twinax | 4 x (16A/150V) | 4 |
| Signal/*Signal* | MDL-KX | 6x RG 58/RG 59 | 6 |
| Signal/*Signal* | MDL-KX.VT | | 1 |
| Signal/*Signal* | MDL-Dynamic | 30 x (5A/600V) | 30 |
| Signal/*Signal* | MDL-RJ45 | CAT 5e | 1 |

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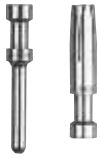
## Anschlussarten/*Termination types*

- **Schraubanschluss**
  **Screw connection**

- **Spring Clamp-Anschluss**
  **Spring Clamp connection**

- **Crimpanschluss**
  **Crimp connection**



## Schraubanschluss/*Screw terminal*

**Schraubanschluss**

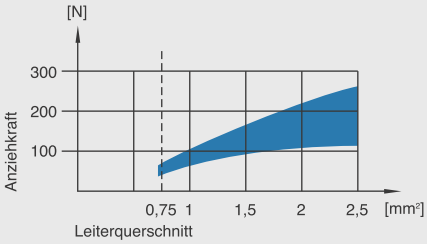
Der Schraubanschluss ist die bekannteste Anschlussart. Ihre Bemessung erfolgt nach VDE 0609. Anzugs- und Prüfdrehmomente entnehmen Sie bitte nebenstehender Tabelle.

***Screw terminal***

*The screw terminal is the most common type of connection. Ratings are based on VDE 0609. Please refer to the table at the left for torques.*

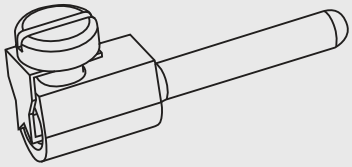
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Leiterquerschnitt (mm²) | 1 | 1,5 | 2,5 | 4 | 6 | 10 | *Wire cross section (mm²)* |
| Schraubengewinde | **M 2,6** | **M 3** | **M3** | **M 3,5** | **M 4** | **M 4** | *Thread* |
| Prüfdrehmoment Ncm | 40 | 50 | 50 | 80 | 120 | 120 | *Test torque Ncm* |

Das Diagramm zeigt den Streubereich der Ausziehkräfte der Leiter aus der Schraubver-bindung eines Kontaktelementes mit Klemmschutz.
Klemmschraube: M 3
Prüfdrehmoment: 50 Ncm




*The diagram shows the force range for pulling the conductor out of the screwed connection of a contact element with wire protection.*
*Clamp screw: M 3*
*Test torque: 50 Ncm*

**mit** Drahtschutz/**with** wire protection



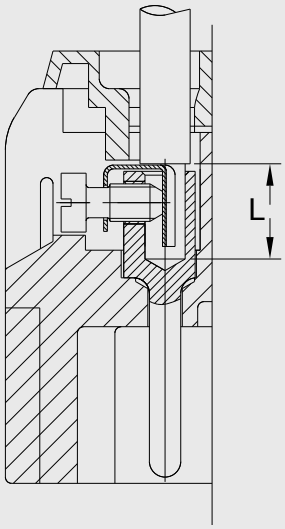
Die einschlägigen Bestimmungen sagen aus:

- Serien HE, HSB-Klemmen
  **mit** Drahtschutz:
  Ausser dem Abisolieren ist kein besonderes Herrichten der Leiterenden erforderlich.

*The relevant regulations stipulate:*

- *Terminals of series HE, HSB*
  **with** *wire protection:*
  *No special preparation of wire ends required except for stripping.*

| Kontakt-Einsätze<br>Contact inserts | max. Leiterquerschnitt<br>max. wire cross section<br>mm2 | Abisolierlänge<br>Stripping length<br>AWG | <br><br>l (mm) |
|---|---|---|---|
| HA.3/HA.4 | 2,5 | 14 | 4,5 |
| HE.6-48/HA.10-64 | 2,5 | 14 | 7,0 |
| HSB.6/35 | 6,0 | 10 | 11,5 |



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

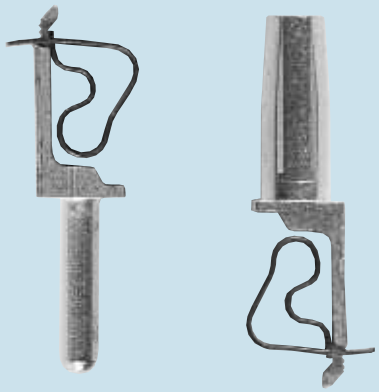
## HA Spring Clamp-Anschluss/*HA Spring Clamp connection*

**Technische Kennwerte**

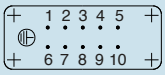
| | |
|---|---|
| Vorschriften: | DIN VDE 0110<br>DIN VDE 0627 |
| Zulassungen: | UL/CSA/SEV/VDE |
| Käfigzugfederanschluß: | bis 2,5mm² (AWG 14)<br>mit Aderendhülse bis 1,5mm² (AWG 16) |

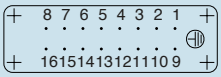
**Werkstoffe**

| | |
|---|---|
| Kontaktelemente: | Kupferlegierung |
| Kontaktoberfläche: | hartversilbert |

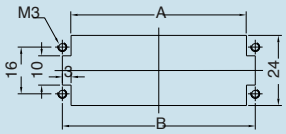


Kontaktanordnung
Ansicht Anschlußseite
Contact arrangements
view from terminal side




Montageausschnitt für Kontakteinsätze bei Verwendung ohne Geh
Panel cut-out



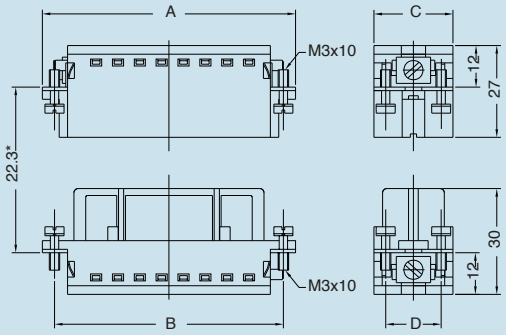

| Baugröße/Size | Maße/Dimensions | |
|---|---|---|
| | A | B |
| 2 | 43,5 | 49,5 |
| 5 | 60 | 66 |

***Technical ratings***

| | |
|---|---|
| *Specification:* | *DIN VDE 0110*<br>*DIN VDE 0627* |
| *Approval:* | *UL/CSA/SEV/VDE* |
| *Cage clamp terminal:* | *up to 2,5mm² (AWG 14)*<br>*with wire pin up to 1,5mm² AWG 16)* |

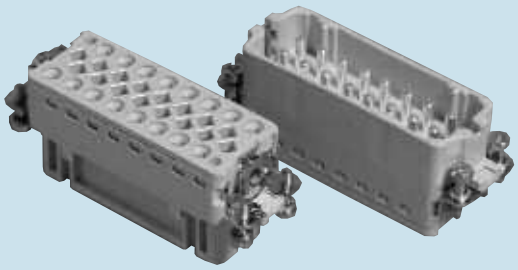
***Materials***

| | |
|---|---|
| *Contact elements:* | *copper alloy* |
| *Contact surface:* | *hard-silver-plated* |




*Abstand für sichere Kontaktgabe 24 mm

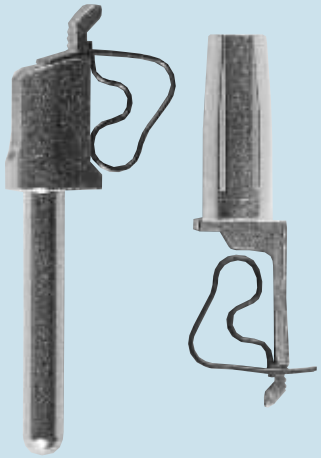
| Baugröße/Size | Maße/Dimensions | | | |
|---|---|---|---|---|
| | A | B | C | D |
| 2 | 56,5 | 49,5 | 22,8 | 16 |
| 5 | 73 | 66 | 22,8 | 16 |



## HE Spring Clamp-Anschluss/*HE Spring Clamp connection*

**Technische Kennwerte**

| | |
|---|---|
| Vorschriften: | DIN VDE 0110<br>DIN VDE 0627 |
| Zulassungen: | UL/CSA/SEV/VDE |
| Käfigzugfederanschluß: | bis 2,5mm² (AWG 14) |
| Kontakteinsätze: | Thermoplastischer Formstoff PBT |
| Kontaktelemente: | Kupferlegierung |
| Kontaktoberfläche: | hartversilbert |



***Technical ratings***

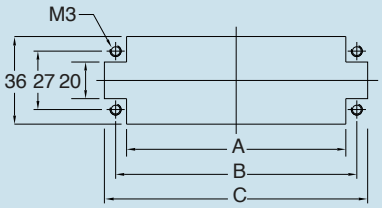
| | |
|---|---|
| *Specification:* | *DIN VDE 0110*<br>*DIN VDE 0627* |
| *Approval:* | *UL/CSA/SEV/VDE* |
| *Cage clamp terminal:* | *up to 2,5mm² (AWG 14)*<br>*with wire pin up to 1,5mm² (AWG 16)* |

***Materials***

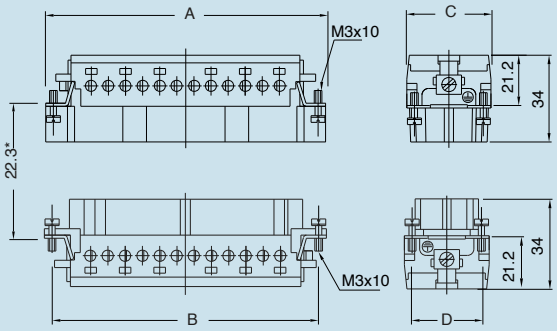
| | |
|---|---|
| *Contact elements:* | *copper alloy* |
| *Contact surface:* | *hard-silver-plated* |

Montageausschnitt für Kontakteinsätze bei Verwendung ohne Gehäuse

Panel cut-out

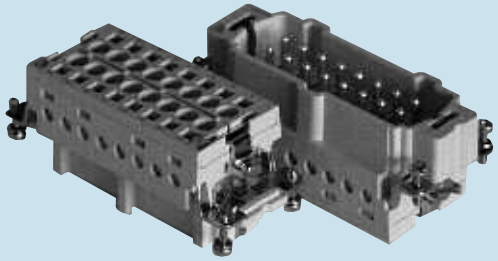



| Baugröße Size | Abmessungen/Dimensions (mm) | | |
|---|---|---|---|
| | A | B | C |
| 3 | 37 | 44 | 52 |
| 4 | 50 | 57 | 65 |
| 6 | 70,5 | 77,5 | 85,5 |
| 8 | 97 | 104 | 112 |




*Abstand für sichere Kontaktgabe 24 mm

| Baugröße/Size | Maße/Dimensions | | | |
|---|---|---|---|---|
| | A | B | C | D |
| 3 | 52 | 44 | 33 | 27 |
| 4 | 63 | 57 | 33 | 27 |
| 6 | 83,5 | 77,5 | 33 | 27 |
| 8 | 110 | 104 | 33 | 27 |





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## Crimpkontakte/*Crimp contacts*

Die moderne Crimp-Anschlußtechnik weist gegenüber Schraub- oder Lötanschlüssen wesentliche technische und wirtschaftliche Vorteile auf.

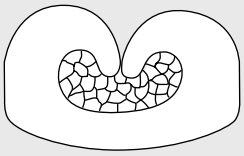
Zum Crimpen werden ein- oder mehrdrähtige Leiter eingesetzt. der Crimpvorgang kann durch Crimp-Handzangen oder für die Serienfertigung mit halb- oder vollautomatischen Crimpmaschinen erfolgen. Mit Vollautomaten geschieht das Abisolieren der Leiter und das Crimpen der Kontakte maschinell in einem Arbeitsgang. Mit Hilfe dieser Crimpwerkzeuge wird der Anschlußbereich des Crimpkontaktes verformt und somit eine feste, gasdichte Verbindung mit dem Leiter hergestellt.

HTS bietet wirtschaftliche und technische Vorteile mit zwei weltweit verbreiteten Crimpsystemen:
- Präzisions-gedrehte HE, HN.D, HVT, HSM, HSL und HSS-Massiv-Crimpkontakte.
- Präzisions-gestanzte HD.M-Crimpkontakte.

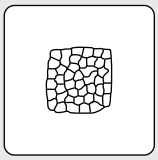
1. Die gleichbleibende Crimpqualität garantiert einen konstanten Durchgangswiderstand.
2. Korrosionsfestigkeit durch annähernde Kaltverschweißung.
3. Vorkonfektionierung von Kabelbäumen mit Crimpkontakten.
4. Wesentlich höhere Verdrahtungsgeschwindigkeit.
5. Das Lösen bereits gesteckter Kontakte ist mit speziellem Lösewerkzeug möglich.

Auswahlhilfe Silber/Goldkontakte:
Die Auswahl o.g. Materialien sollte vor folgendem Hintergrund stattfinden:
**Verschleiß** ist auf Grund der Härte der Goldoberfläche bei vergoldeten Kontakten geringer, was auch höhere Steckzyklen erlaubt. Auch ist die Steckkraft ist bei vergoldeten Kontakten geringer.
Das **Widerstandsverhalten** bei Gold ist konstanter aufgrund der geringeren Reaktionsfreudigkeit: Silber reagiert mit Schwefel und bildet eine dünne Oxidschicht aus. Diese Schicht wird beim Stecken problemlos durchbrochen bzw. von größeren Strömen „verbrannt".
Unserer Erfahrung nach ist ein Einsatz von Goldkontakten nur bei Signal-Stömen und -Spannungen aufgrund des sehr konstanten (zeitlich) Widerstandsverhalten notwendig.Bei Anwendungen >5mA und >5V ist der Einsatz von Silberkontakten aus wirtschaftlichen Gesichtspunkten sinnvoller.
In nebenstehender Grafik ist diese Strom/Spannungs Auswahl zusammengefaßt.
Spez. Widerstand: Gold: 0,022 Vmm_/m
Silber: 0,015 Vmm_/m

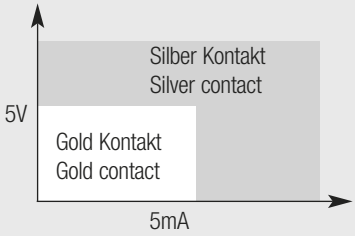
Schliffbilder einer Crimpstelle
*Cross sections of crimp contacts*



F-Crimpung für HD.M-Kontakte
*F crimp for HD.M contacts*



Vierkant Crimpung
*Square section crimping*




*State-of-the-Art crimping technology is superior to screw or solder terminals compared to technical and economic perspectives.*

*Solid or multi strand conductors can be used for crimping. Crimping is done with manual crimping tools or semi-automatic crimping machines. Fully automatic machines perform all processes from stripping the conductor to crimping the contacts in a single step. The crimping tools connect the contact and the conductor by applying pressure to the connection area of the contact, thus creating a reliable, gas-tight termination.*

*HTS offers technical and economic advantages with two world-wide proven and acknowledged crimping systems:*
- *precision-screw machined solid crimp contacts HE, HN.D, HVT, HSM, HSL and HSS.*
- *precision-stamped HD.M crimp contacts*

1. *The constant crimp quality ensures a constant resistance.*
2. *Connection is almost cold-welded, giving corrosion resistance to the termination.*
3. *Preparation of cable harness with crimp contacts.*
4. *Faster termination times.*
5. *Crimped contacts can be removed with a special tool.*

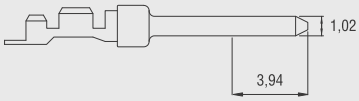
*How to choose between silver- or gold-plated contacts:*
*The choice of either silver- or gold-plated contacts should be made considering the following:*
*The surface of gold-plated contacts is harder, which means less wear and tear and enables higher mating cycles. The mating force of gold-plated contacts is lower as well.*
*Gold's resistance performance is more constant due to its low reactivity. Silver reacts with sulphur and forms a thin oxidation layer. When mating this layer can be broken through or 'burnt off' by higher currents.*
*Our experience has shown that the use of gold-plated contacts is only necessary with signal currents and voltages when very constant resistance performance is required. From an economic point of view it makes more sense to use silver-plated contacts for applications of >5mA and >5V.*
*The graphic shown left is the current/voltage choice.*
*Resistance: Gold: 0,022 Vmm_/m*
*Silver: 0,015 Vmm_/m*

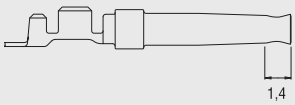
## Crimpkontakte S20DF Serie/*Crimp contacts S20DF series* 5A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*




Werkstoff: Kupferlegierung
Oberfläche:
- vergoldet
Durchgangswiderstand: ≤ 15 mΩ
Crimpanschluss:
- mm² 0,08 - 0,6 mm²
- AWG 28 - 20

*Material: Copper alloy*
*Finish:*
*- gold plated*
*Contact resistance:* ≤ 15 mΩ
*Crimp terminal :*
- mm² 0,08 - 0,6 mm²
- AWG 28 - 20

| Bestelltext *Designation* | Bestell-Nr. *Order No.* | Maße mm² *Dimensions mm²* |
|---|---|---|
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | 1-66507-0<br>1-66506-0 | 0,08 – 0,2<br>0,2 – 0,6 |
| Bandkontakt/Stift vergoldet<br>*Reel contact/pin gold plated* | 66507-4<br>66506-4 | 0,08 – 0,2<br>0,2 – 0,6 |
| Buchsenkontakt vergoldet<br>*Socket contact gold plated* | 1-66505-0<br>1-66504-0 | 0,08 – 0,2<br>0,2 – 0,6 |
| Bandkontakt/Buchse vegoldet<br>*Reel contact/socket gold plated* | 66505-4<br>66504-4 | 0,08 – 0,2<br>0,2 – 0,6 |

## Werkzeuge für Crimptechnik S20DF Serie/*Crimping tools S20DF series*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr. *Order No.* | Querschnitt mm² *Cross section mm²* |
|---|---|---|---|
| **Crimpzange** ***Crimping tool*** | Certi-Crimp<br>Reel-Fed Certi Lok* | 169424-1 | |
| **Ausdrückwerkzeug /*Extraction tool*** | S20DF | 91285-1 | alle Querschnitte<br>*all cross sections* |
| **Eindrückwerkzeug/*Insertion tool*** | S20DF | 726363-1 | |

*für Bandkontakte/*lor reel contacts*



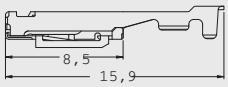
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

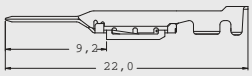
## Crimpkontakte Dynamic 2800 Serie/*Crimp contacts Dynamic 2800 series* 5A

**Bezeichnung**
***Description***

Buchsenkontakt/*Receptable contact*

Stiftkontakt/*Top contact*




Werkstoff: Kupferlegierung
Oberfläche:
- vergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,08 - 0,85 mm²
- AWG 28 - 18

*Material: Copper alloy*
*Finish:*
*- gold plated*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,08 - 0,85 mm²
- AWG 28 - 18

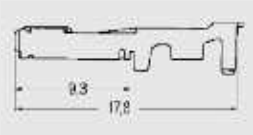
| Bestelltext *Designation* | Bestell-Nr. *Order No.* | Maße mm² *Dimensions mm²* | Werkzeug *Tool* |
|---|---|---|---|
| Stiftkontakt vergoldet<br>*Top contact gold plated* | 1318112-1<br>1318111-1 | 0,08 – 0,2 (S)<br>0,3 – 0,85 (M) | 91576-1<br>91595-1 |
| Bandkontakt/Stift vergoldet<br>*Strip form*<br>*Top contact gold plated* | 1318110-1<br>1318109-1 | 0,08 – 0,2 (S)<br>0,3 – 0,85 (M) | (Applicator)<br>1385232-2<br>1385231-2 |
| Buchsenkontakt vergoldet<br>*Receptable contact gold plated* | 1318108-1<br>1318107-1 | 0,08 – 0,2 (S)<br>0,3 – 0,85 (M) | 91596-1<br>91595-1 |
| Bandkontakt/Buchse vergoldet<br>*Strip form*<br>*Receptable contact gold plated* | 1318106-1<br>1318105-1 | 0,08 – 0,2 (S)<br>0,3 – 0,85 (M) | (Applicator)<br>1385232-2<br>1385231-2 |

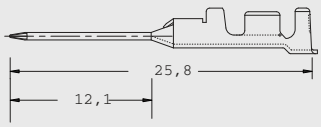
## Crimpkontakte Dynamic 3800 Serie/*Crimp contacts Dynamic 3800 series* 8A

**Bezeichnung**
***Description***

Buchsenkontakt/*Receptable contact*

Stiftkontakt/*Top contact*




Werkstoff: Kupferlegierung
Oberfläche:
- vergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,06 - 2,2 mm²
- AWG 28 - 14

*Material: Copper alloy*
*Finish:*
*- gold plated*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,06 - 2,2 mm²
- AWG 28 - 14

| Bestelltext *Designation* | Bestell-Nr. *Order No.* | Maße mm² *Dimensions mm²* | Werkzeug *Tool* |
|---|---|---|---|
| Stiftkontakt vergoldet<br>*Top contact gold plated* | 175287-2<br>175288-2<br>175289-2<br>987512-2 | 0,06 – 0,2 (S)<br>0,2 – 0,5 (M)<br>0,5 – 1,25 (L)<br>1,25 – 2,2 (2L) | 91565-1<br>91559-1<br>91558-1<br>91560-1 |
| Bandkontakt/Stift vergoldet<br>*Strip form*<br>*Top contact gold plated* | 175284-2<br>175285-2<br>175286-2<br>917485-2 | 0,06 – 0,2 (S)<br>0,2 – 0,5 (M)<br>0,5 – 1,25 (L)<br>1,25 – 2,2 (2L) | (Applicator)<br>1276659-1<br>937472-1<br>1385001-2<br>1276662-1 |
| Buchsenkontakt vergoldet<br>*Seceptable contact gold plated* | 175216-2<br>175217-2<br>175218-2<br>917511-2 | 0,06 – 0,2 (S)<br>0,2 – 0,5 (M)<br>0,5 – 1,25 (L)<br>1,25 – 2,2 (2L) | 91565-1<br>91559-1<br>91558-1<br>91560-1 |
| Bandkontakt/Buchse vergoldet<br>*Strip form*<br>*Receptable contact gold plated* | 175194-2<br>175195-2<br>175196-2<br>917484-2 | 0,06 – 0,2 (S)<br>0,2 – 0,5 (M)<br>0,5 – 1,25 (L)<br>1,25 – 2,2 (2L) | (Applicator)<br>1276659-1<br>937472-1<br>1385001-2<br>1276662-1 |

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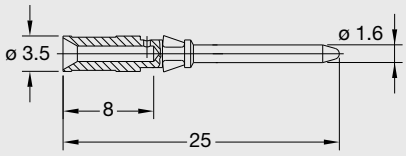
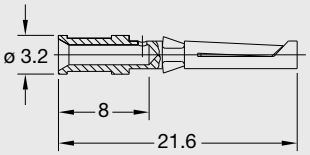
## Crimpkontakte HN.D Serie/*Crimp contacts HN.D series* 10A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*



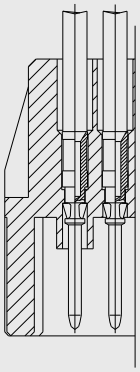




Werkstoff: Kupferlegierung
Oberfläche:
- hartversilbert
- hartvergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,14 - 2,5 mm²
- AWG 26 - 14

*Material: Copper alloy*
*Finish:*
- *hard silver*
- *hard gold*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,14 - 2,5 mm²
- AWG 26 - 14

**HN.D – Gedrehte Crimpkontakte/*Screw machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| 1 | 0,14 - 0,37 mm² | 8 mm |
| 2 | 0,5 mm² | 8 mm |
| 3 | 0,75 - 1 mm² | 8 mm |
| 4 | 1,5 mm² | 8 mm |
| 5 | 2,5 mm² | 6 mm |



| Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Maße mm²<br>*Dimensions mm²* |
|---|---|---|
| Stiftkontakt versilbert<br>*Pin contact silver plated* | | |
| | 1-1105050-1 | 0,14-0,37 |
| | 2-1105050-1 | 0,5 |
| | 3-1105050-1 | 0,75-1,0 |
| | 4-1105050-1 | 1,5 |
| | 5-1105050-1 | 2,5 |
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | | |
| | 1-1105050-2 | 0,14-0,37 |
| | 2-1105050-2 | 0,5 |
| | 3-1105050-2 | 0,75-1,0 |
| | 4-1105050-2 | 1,5 |
| | 5-1105050-2 | 2,5 |
| Buchsenkontakt versilbert<br>*Socket contact silver plated* | | |
| | 1-1105051-1 | 0,14-0,37 |
| | 2-1105051-1 | 0,5 |
| | 3-1105051-1 | 0,75-1,0 |
| | 4-1105051-1 | 1,5 |
| | 5-1105051-1 | 2,5 |
| Buchsenkontaktvergoldet<br>*Socket contact gold plated* | | |
| | 1-1105051-2 | 0,14-0,37 |
| | 2-1105051-2 | 0,5 |
| | 3-1105051-2 | 0,75-1,0 |
| | 4-1105051-2 | 1,5 |
| | 5-1105051-2 | 2,5 |

## Werkzeuge für Crimptechnik HN.D Serie/*Crimping tools HN.D series*

| Bezeichnung<br>*Description* | | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Querschnitt mm²<br>*Cross section mm²* |
|---|---|---|---|---|
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool** without locator and die* | | RSZ.BAS | 1-1105850-8 | |
| **Crimpzange** mit Locator und Matrize<br>***Crimping tool** with locator and die* | | RSZ.HE-HN.D-HVT | 1-1105851-8 | |
| **Locator und Matrize 0,14 – 4mm²**<br>***Locator and die 0,14 – 4mm²*** | | RSZ.LC 0,14-4 mm² | 1-1105852-8 | 0,14-4mm² |
| **Crimpzange** ohne Locator<br>***Crimping tool** without locator* | | Daniels Tool AF8 | 601967-1 | |
| **Locator** hierzu<br>***Locator** for the tool* | | Turnet | 523168-5 | |
| **Ausdrückwerkzeug HN.D/*Extraction tool HN.D*** | | AWZG-HN.D-RSZ | 0-1102855-2 | alle Querschnitte<br>all cross sections |
| **Eindrückwerkzeug/*Insertion tool*** | | EWZG-RSZ | 0-1102855-6 | |



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
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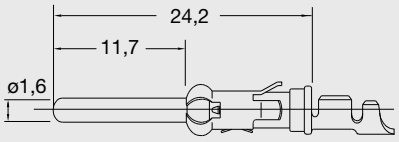
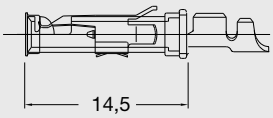
## Crimpkontakte HD.M Serie/*Crimp contacts HD.M series* 10A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*



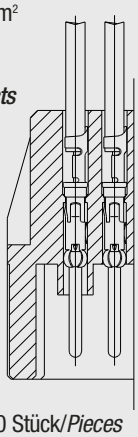




Werkstoff: Kupferlegierung
Oberfläche:
- verzinnt
- hartvergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,14 - 2,5 mm²
- AWG 26 - 14

*Material: Copper alloy*
*Finish:*
*- tin plated*
*- hard gold*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,14 - 2,5 mm²
- AWG 26 - 14

**HD.M – Gestanzte Crimpkontakte/*Stamped machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| 1 | 0,2 - 0,56 mm² | 3,5 mm |
| 2 | 0,5 - 1,5 mm² | 3,5 mm |
| 3 | 0,8 - 1,5 mm² | 3,5 mm |
| 4 | 1,5 - 2,5 mm² | 3,5 mm |



**Verpackungseinheiten/*Packing unit***
Kontakte am Band/*Contacts on reel*: **A**= 5.000 Stück/*Pieces*, **B**= 4.000 Stück/*Pieces*

| Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Maße mm²<br>*Dimensions mm²* |
|---|---|---|
| Stiftkontakt verzinnt<br>*Pin contact tin plated* | 1-1105000-3<br>2-1105000-3<br>4-1105000-3 | 0,3 – 0,56<br>0,5 – 1,5<br>1,5 – 2,5 |
| Bandkontakt/Stift verzinnt<br>*Reel contact/pin tin plated* | 0-0164161-9<br>0-0166824-2 | 0,5 – 1,5<br>1,5 – 2,5 |
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | 1-1105000-2<br>3-1105000-2 | 0,3 – 0,56<br>0,8 – 1,5 |
| Bandkontakt/Stift vergoldet<br>*Reel contact/pin gold plated* | 0-0164160-4<br>0-0164161-4 | 0,3 – 0,56<br>0,8 – 1,5 |
| Buchsenkontakt verzinnt<br>*Socket contact tin plated* | 1-1105001-3<br>2-1105001-3<br>4-1105001-3 | 0,3 – 0,56<br>0,5 – 1,5<br>1,5 – 2,5 |
| Buchsenkontakt vergoldet<br>*Socket contact gold plated* | 1-1105001-2<br>3-1105001-2 | 0,3 – 0,56<br>0,8 – 1,5 |
| Bandkontakt/Buchse vergoldet<br>*Reel contact/socket gold plated* | 1-0163087-1<br>0-0163083-7 | 0,3 – 0,56<br>0,8 – 1,5 |

## Werkzeuge für Crimptechnik HD.M Serie/*Crimping tools HD.M series*

| Bezeichnung<br>*Description* | | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Querschnitt mm²<br>*Cross section mm²* |
|---|---|---|---|---|
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool** without locator and die* | | RSZ.BAS | 539635-1 | |
| **Locator und Matrize**<br>***Locator and die*** | | ERGO-DIE XII | 539742-2 | 0,2-2,5mm²<br>für Kontakte PN<br>*for contacts PN* |
| **Ausdrückwerkzeug HD.M/*Extraction tool HD.M*** | | AWZG-HD.M-RSZ | 0-1102855-1 | alle Querschnitte<br>*all cross sections* |
| **Eindrückwerkzeug/*Insertion tool*** | | EWZG-RSZ | 0-1102855-6 | unter 0,75mm²<br>*below 0,75mm²* |

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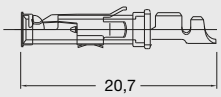
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

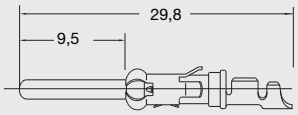
## Crimpkontakte HGQ10 Serie/*Crimp contacts HGQ10 series* 20A

**Bezeichnung**
***Description***

Buchsenkontakt/*Socket contact*

Stiftkontakt/*Pin contact*




Werkstoff: Kupferlegierung
Oberfläche:
- verzinnt
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,2 - 4,0 mm²
- AWG 24 - 12

*Material: Copper alloy*
*Finish:*
*- tin plated*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,2 - 4,0 mm²
- AWG 24 - 12

Andere Oberflächen und Werkstoffe auf Anfrage
*Other finishes and Materials on request*

Product Spec.: 108-18027 Appl. Spec.: 114-18018

| Bestelltext *Designation* | Bestell-Nr. *Order No.* | Maße mm² *Dimensions mm²* | Werkzeug *Tool* |
|---|---|---|---|
| Stiftkontakt verzinnt *Pin contact tin plated* | 962966-1 | 0,2 – 0,4 | 734285-1 |
| | 962967-1 | 0,5 – 1,0 | 734285-1 |
| | 962968-1 | 1,0 – 2,5 | 734285-2 |
| | 962969-1 | 2,5 – 4,0 | 734285-3 |
| Bandkontakt/Stift verzinnt Reel contact/pin tin plated | 929962-1 | 0,2 – 0,4 | 734285-1 |
| | 929963-1 | 0,5 – 1,0 | 734285-1 |
| | 929964-1 | 1,0 – 2,5 | 734285-2 |
| | 929965-1 | 2,5 – 4,0 | 734285-3 |
| Buchsenkontakt verzinnt *Socket contact tin plated* | 962976-1 | 0,2 – 0,4 | 734285-1 |
| | 962977-1 | 0,5 – 1,0 | 734285-1 |
| | 962978-1 | 1,0 – 2,5 | 734285-2 |
| | 962979-1 | 2,5 – 4,0 | 734285-3 |
| Bandkontakt/Buchse verzinnt *Reel contact/socket tin plated* | 929969-1 | 0,2 – 0,4 | 734285-1 |
| | 929970-1 | 0,5 – 1,0 | 734285-1 |
| | 929971-1 | 1,0 – 2,5 | 734285-2 |
| | 929972-1 | 2,5 – 4,0 | 734285-3 |

## Werkzeuge für Crimptechnik HGQ10 Serie/*Crimping tools HGQ10 series*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr. *Order No.* | Querschnitt mm² *Cross section mm²* |
|---|---|---|---|
| **Ausdrückwerkzeug** / ***Extraction tool*** | Extraction tool | 1-1579007-8 | |
| **Crimpzange mit Locator** ***Crimping tool with locator*** | Handtool 734285-11,5 mm² | | |
| | 734285-22,5 mm² | | |
| | 734285-34,0 mm² | | |
| **Halb-/Vollautomat auf Anfrage** ***Bench and Automatic tooling on request*** | Safety Press SSC-2FP | 1481004-7 | |
| | Ergo Die Adapter | 1579000-7 | |

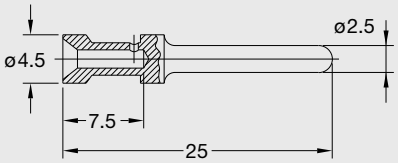
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

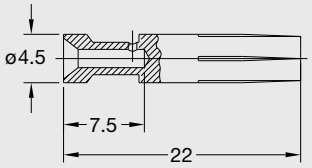
## Crimpkontakte HE/HA Serie/*Crimp contacts HE/HA series* 16A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*




Werkstoff: Kupferlegierung
Oberfläche:
- hartversilbert
- hartvergoldet

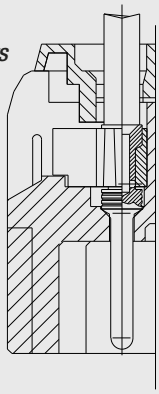
Durchgangswiderstand: ≤ 1 mΩ
Crimpanschluss:
- mm² 0,5 - 4,0 mm²
- AWG 20 - 12

*Material: Copper alloy*
*Finish:*
*- hard silver*
*- hard gold*

*Contact resistance:* ≤ 1 mΩ
*Crimp terminal :*
- mm² 0,5 - 4,0 mm²
- AWG 20 - 12

**HE/HA – Gedrehte Crimpkontakte/*Screw machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| 3 Rillen/*3 grooves* | 0,14 - 0,34 mm² | 7,5 mm |
| keine Rille/*no groove* | 0,5 mm² | 7,5 mm |
| 1 Rille/*1 groove* | 0,75 - 1 mm² | 7,5 mm |
| 2 Rillen/*2 grooves* | 1,5 mm² | 7,5 mm |
| 3 Rillen/*3 grooves* | 2,5 mm² | 7,5 mm |
| keine Rille/*no groove* | 4,0 mm² | 7,5 mm |



| Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Maße mm²<br>*Dimensions mm²* |
|---|---|---|
| Stiftkontakt versilbert<br>*Pin contact silver plated* | | |
| | 6-1105100-1 | 0,14 |
| | 1-1105100-1 | 0,5 |
| | 2-1105100-1 | 0,75 – 1 |
| | 3-1105100-1 | 1,5 |
| | 4-1105100-1 | 2,5 |
| | 5-1105100-1 | 4,0 |
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | | |
| | 6-1105100-2 | 0,14 – 0,34 |
| | 1-1105100-2 | 0,5 |
| | 2-1105100-2 | 0,75 – 1 |
| | 3-1105100-2 | 1,5 |
| | 4-1105100-2 | 2,5 |
| | 5-1105100-2 | 4,0 |
| Buchsenkontakt versilbert<br>*Socket contact silver plated* | | |
| | 6-1105101-1 | 0,14 |
| | 1-1105101-1 | 0,5 |
| | 2-1105101-1 | 0,75 – 1 |
| | 3-1105101-1 | 1,5 |
| | 4-1105101-1 | 2,5 |
| | 5-1105101-1 | 4,0 |
| Buchsenkontakt vergoldet<br>*Socket contact gold plated* | | |
| | 6-1105101-2 | 0,14 – 0,34 |
| | 1-1105101-2 | 0,5 |
| | 2-1105101-2 | 0,75 – 1 |
| | 3-1105101-2 | 1,5 |
| | 4-1105101-2 | 2,5 |
| | 5-1105101-2 | 4,0 |

## Werkzeuge für Crimptechnik HE/HA Serie/*Crimping tools HE/HA series*

| Bezeichnung<br>*Description* | | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Querschnitt mm²<br>*Cross section mm²* |
|---|---|---|---|---|
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool** without locator and die* | | RSZ.BAS | 1-1105850-8 | |
| **Crimpzange** mit Locator und Matrize<br>***Crimping tool** with locator and die* | | RSZ.HE-HN.D-HVT | 1-1105851-8 | |
| **Locator und Matrize 0,14 – 4mm²**<br>***Locator and die 0,14 – 4mm²*** | | RSZ.LC 0,14-4 mm² | 1-1105852-8 | 0,14-4mm² |
| **Crimpzange** ohne Locator<br>***Crimping tool** without locator* | | Daniels Tool AFS | 601967-1 | |
| **Locator** hierzu<br>***Locator** for the tool* | | Turnet | 523168-6 | 0,14-4mm² |
| **Ausdrückwerkzeug HE/*Extraction tool HE*** | | AWZG-RSZ | 0-1102855-7 | alle Querschnitte<br>*all cross sections* |
| **Eindrückwerkzeug/*Insertion tool*** | | EWZG-RSZ | 0-1102855-6 | |

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
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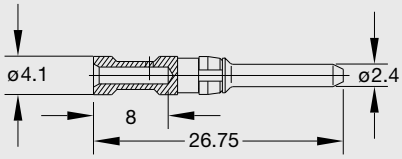
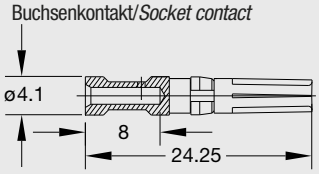
## Crimpkontakte HVT Serie/*Crimp contacts HVT series* 16A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*



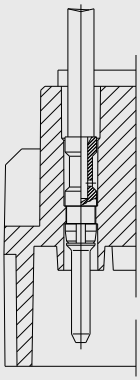




Werkstoff: Kupferlegierung
Oberfläche:
- hartversilbert
- hartvergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,13 - 4,0 mm²
- AWG 20 - 12

*Material: Copper alloy*
*Finish:*
*- hard silver*
*- hard gold*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,13 - 4,0 mm²
- AWG 20 - 12

**HVT – Gedrehte Crimpkontakte/*Screw machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| 1 | 0,13 - 0,4 mm² | 8 mm |
| 2 | 0,5 mm² | 8 mm |
| 3 | 0,75 - 1 mm² | 8 mm |
| 4 | 1,5 mm² | 8 mm |
| 5 | 2,5 mm² | 8 mm |
| 6 | 4,0 mm² | 8 mm |



| **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** | **Maße mm²**<br>***Dimensions mm²*** |
|---|---|---|
| Stiftkontakt versilbert<br>*Pin contact silver plated* | 6-1105300-1<br>1-1105300-1<br>2-1105300-1<br>3-1105300-1<br>4-1105300-1<br>5-1105300-1 | 0,13 - 0,4<br>0,5<br>0,75 – 1,0<br>1,5<br>2,5<br>4,0 |
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | 6-1105300-2<br>1-1105300-2<br>2-1105300-2<br>3-1105300-2<br>4-1105300-2<br>5-1105300-2 | 0,13 - 0,4<br>0,5<br>0,75 – 1,0<br>1,5<br>2,5<br>4,0 |
| Buchsenkontakt versilbert<br>*Socket contact silver plated* | 6-1105301-1<br>1-1105301-1<br>2-1105301-1<br>3-1105301-1<br>4-1105301-1<br>5-1105301-1 | 0,13 - 0,4<br>0,5<br>0,75 – 1,0<br>1,5<br>2,5<br>4,0 |
| Buchsenkontakt vergoldet<br>*Socket contact gold plated* | 6-1105301-2<br>1-1105301-2<br>2-1105301-2<br>3-1105301-2<br>4-1105301-2<br>5-1105301-2 | 0,13 - 0,4<br>0,5<br>0,75 – 1,0<br>1,5<br>2,5<br>4,0 |

## Werkzeuge für Crimptechnik HVT Serie/*Crimping tools HVT series*

| **Bezeichnung**<br>***Description*** | | **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** | **Querschnitt mm²**<br>***Cross section mm²*** |
|---|---|---|---|---|
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool*** *without locator and die* | | RSZ.BAS | 1-1105850-8 | |
| **Crimpzange** mit Locator und Matrize<br>***Crimping tool*** *with locator and die* | | RSZ.HE-HN.D-HVT | 1-1105851-8 | |
| **Locator und Matrize 0,14 – 4mm²**<br>***Locator and die 0,14 – 4mm²*** | | RSZ.LC 0,14-4 mm² | 1-1105852-8 | 0,14-4mm² |
| **Crimpzange** ohne Locator<br>***Crimping tool*** *without locator* | | Daniels Tool AFS | 601967-1 | |
| **Locator** hierzu<br>***Locator*** *for the tool* | | Turnet | 523168-5 | 0,14-4mm² |
| **Ausdrückwerkzeug HE/*Extraction tool HE*** | | AWZG-RSZ | 0-1102855-3 | alle Querschnitte<br>*all cross sections* |
| **Eindrückwerkzeug/*Insertion tool*** | | EWZG-RSZ | 0-1102855-6 | |



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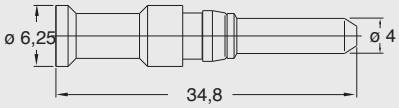
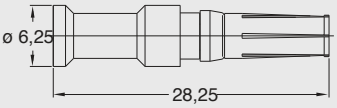
## Crimpkontakte HSK Serie/*Crimp contacts HSK series* 40A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*



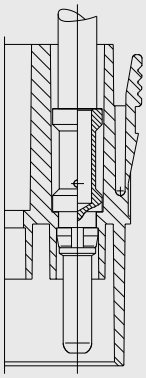




Werkstoff: Kupferlegierung
Oberfläche:
- hartversilbert
- hartvergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 1,5 - 10,0 mm²
- AWG 16 - 8

*Material: Copper alloy*
*Finish:*
- *hard silver*
- *hard gold*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 1,5 - 10,0 mm²
- AWG 16 - 8

**HSK – Gedrehte Crimpkontakte/*Screw machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| 4 | 1,5 mm² | 11,5 mm |
| 5 | 2,5 mm² | 11,5 mm |
| 6 | 4 mm² | 11,5 mm |
| 7 | 6 mm² | 11,5 mm |
| 8 | 10 mm² | 11,5 mm |



| Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Maße mm²<br>*Dimensions mm²* |
|---|---|---|
| Stiftkontakt versilbert<br>*Pin contact silver plated* | 1-1108757-1<br>2-1108757-1<br>3-1108757-1<br>4-1108757-1<br>5-1108757-1 | 1,5<br>2,5<br>4<br>6<br>10 |
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | auf Anfrage/<br>*on request* | |
| Buchsenkontakt versilbert<br>*Socket contact silver plated* | 1-1108756-1<br>2-1108756-1<br>3-1108756-1<br>4-1108756-1<br>5-1108756-1 | 1,5<br>2,5<br>4<br>6<br>10 |
| Buchsenkontakt vergoldet<br>*Socket contact gold plated* | auf Anfrage/<br>*on request* | |

## Werkzeuge für Crimptechnik HSK Serie/*Crimping tools HSK series*

| Bezeichnung<br>*Description* | | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* | Querschnitt mm²<br>*Cross section mm²* |
|---|---|---|---|---|
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool** without locator and die* | | RSZ.BAS | 1-1105850-8 | |
| **Matrize**<br>***die*** | | HSK.RSZ.LC 0,75-2,5 mm²<br>HSK.RSZ.LC 4-10 mm² | 0-1102789-1<br>0-1102790-1 | |
| **Crimpzange** ohne Locator<br>***Crimping tool** without locator* | | Daniels Tool AFS | 601967-1 | |
| **Locator** hierzu<br>***Locator** for the tool* | | Turnet | 523168-7 | 1,5-10mm² |
| **Ausdrückwerkzeug HSK**<br>***Extraction tool HSK*** | | AWZG-HSK-RSZ | 0-1102855-8 | alle Querschnitte<br>*all cross sections* |
| **Eindrückwerkzeug/*Insertion tool*** | | EWZG-RSZ | 0-1102855-6 | |

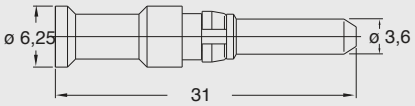
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

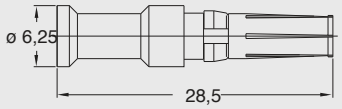
## Crimpkontakte HSM Serie/*Crimp contacts HSM series* 40A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*



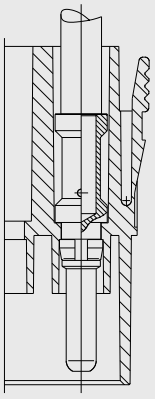




Werkstoff: Kupferlegierung
Oberfläche:
- hartversilbert
- hartvergoldet
Durchgangswiderstand: ≤ 3 mΩ
Crimpanschluss:
- mm² 0,75 - 10,0 mm²
- AWG 20 - 6

*Material: Copper alloy*
*Finish:*
*- hard silver*
*- hard gold*
*Contact resistance:* ≤ 3 mΩ
*Crimp terminal :*
- mm² 0,75 - 10,0 mm²
- AWG 20 - 6

**HSM – Gedrehte Crimpkontakte/*Screw machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| 3 | 0,75 mm² | 10 mm |
| 4 | 1,5 mm² | 10 mm |
| 5 | 2,5 mm² | 10 mm |
| 6 | 4 mm² | 10 mm |
| 7 | 6 mm² | 10 mm |
| 8 | 10 mm² | 10 mm |



| **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** | **Maße mm²**<br>***Dimensions mm²*** |
|---|---|---|
| Stiftkontakt versilbert<br>*Pin contact silver plated* | 1-1105250-1<br>2-1105250-1<br>3-1105250-1<br>4-1105250-1<br>5-1105250-1<br>6-1105250-1 | 0,75-1<br>1,5<br>2,5<br>4<br>6<br>10 |
| Buchsenkontakt versilbert<br>*Socket contact silver plated* | 1-1105251-1<br>2-1105251-1<br>3-1105251-1<br>4-1105251-1<br>5-1105251-1<br>6-1105251-1 | 0,75-1<br>1,5<br>2,5<br>4<br>6<br>10 |

## Werkzeuge für Crimptechnik HSM Serie/*Crimping tools HSM series*

| **Bezeichnung**<br>***Description*** | | **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** | **Querschnitt mm²**<br>***Cross section mm²*** |
|---|---|---|---|---|
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool*** *without locator and die* | | RSZ.BAS | 1-1105850-8 | |
| **Matrize** für HSM-Kontakte<br>***die*** *for HSM-contacts* | | HSM.RSZ.LC 0,75-2,5 mm²<br>HSM.RSZ.LC 4-10 mm² | 1-1105870-8<br>2-1105870-8 | |
| **Ausdrückwerkzeug HSM**<br>***Extraction tool HSM*** | | AWZG-HSM-RSZ | 0-1102855-4 | alle Querschnitte<br>*all cross sections* |
| **Eindrückwerkzeug/*Insertion tool*** | | EWZG-RSZ | 0-1102855-6 | |



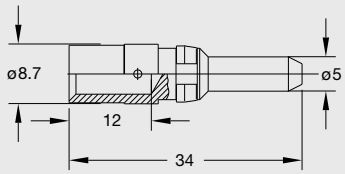
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

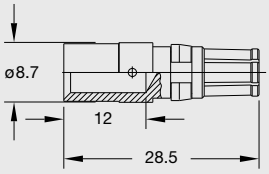
## Crimpkontakte HSS Serie/*Crimp contacts HSS series* 63A

**Bezeichnung**
***Description***

Stiftkontakt/*Pin contact*

Buchsenkontakt/*Socket contact*



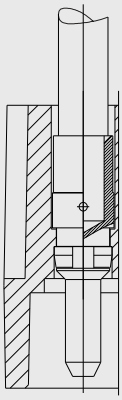




Werkstoff: Kupferlegierung
Oberfläche:
- hartversilbert, 2,5 - 16 mm²
- hartvergoldet, 6 - 16 mm²
Durchgangswiderstand: ≤ 1 mΩ
Crimpanschluss:
- mm² 2,5 - 16 mm²
- AWG 14 - 4

*Material: Copper alloy*
*Finish:*
- *hard silver,* 2,5 - 16 mm²
- *hard gold,* 6 - 16 mm²
*Contact resistance:* ≤ 1 mΩ
*Crimp terminal :*
- mm² 2,5 - 16 mm²
- AWG 14 - 4

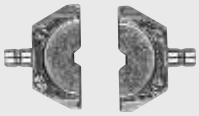
**HSS – Gedrehte Crimpkontakte/*Screw machined crimp contacts***
Querschnittskennzeichnung/*Designation of cross section*

| Kennzeichnung<br>*Designation* | Leiterquerschnitt<br>*Wire cross section* | Abisolierlänge der Litze<br>*Stripping length* |
|---|---|---|
| | 6,0 mm² | 12 mm |
| | 10 mm² | 12 mm |
| | 16 mm² | 12 mm |



| **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** | **Maße mm²**<br>***Dimensions mm²*** |
|---|---|---|
| Stiftkontakt versilbert<br>*Pin contact silver plated* | 3-1105150-1<br>4-1105150-1<br>5-1105150-1 | 6,0<br>10<br>16 |
| Stiftkontakt vergoldet<br>*Pin contact gold plated* | 3-1105150-2<br>4-1105150-2<br>5-1105150-2 | 6,0<br>10<br>16 |
| Buchsenkontakt versilbert<br>*Socket contact silver plated* | 3-1105151-1<br>4-1105151-1<br>5-1105151-1 | 6,0<br>10<br>16 |
| Buchsenkontaktvergoldet<br>*Socket contact gold plated* | 3-1105151-2<br>4-1105151-2<br>5-1105151-2 | 6,0<br>10<br>16 |

## Werkzeuge für Crimptechnik HSS Serie/*Crimping tools HSS series*

| **Bezeichnung**<br>***Description*** | | **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** | **Querschnitt mm²**<br>***Cross section mm²*** |
|---|---|---|---|---|
| **Crimpzange** ohne Crimpbacken<br>***Crimping tool*** *without crimping jaws* | | HSS-CSZ.2,5-70mm² | 1-1105653-8 | 2,5-70mm² |
| **Crimpbacken** für HSM, HSL, HSS<br>***Crimping jaws*** *for HSM, HSL, HSS* |  | CB-HSS-CSZ.6mm²<br>CB-HSS-CSZ.10mm²<br>CB-HSS-CSZ.16mm² | 2-1105653-8<br>3-1105653-8<br>4-1105653-8 | 2,5-16mm² |
| **Crimpzange** ohne Locator und Matrize<br>***Crimping tool*** *without locator and die* | | RSZ.BAS | 1-1105850-8 | |
| **Locator**<br>***Locator*** | | RSZ.LC 6+25 mm²<br>RSZ.LC 10+16 mm² | 1-1105652-8<br>2-1105652-8 | 6+25mm²<br>10+16mm² |
| **Ausdrückwerkzeug** HSS/AIR<br>***Extraction tool*** *HSS/AIR* | | AWZG-HSS-RSZ | 0-1102855-5 | alle Querschnitte<br>all cross sections |

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Crimphülsen max. 150 A/*Crimping sleeves max. 150 A*

### Crimphülsen für Kontaktserie HF-06/*Crimping sleeves for contact series HF-06*

| **Bezeichnung**<br>***Description*** | | **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** |
|---|---|---|---|
| Crimphülsen für Stift-/Buchsenseite<br>- Schrumpfschlauch<br>- Crimphülse<br>*Crimp barrel for pin-/socket side*<br>*- shrink tube*<br>*- crimp barrel* | | CH.06mm²-SW17<br>CH.10mm²-SW17<br>CH.16mm²-SW17<br>CH.25mm²-SW17<br>CH.35mm²-SW17<br>CH.50mm²-SW17<br>CH.70mm²-SW17 | 0-1110952-1<br>0-1110952-2<br>0-1110952-3<br>0-1110952-5<br>0-1110952-7<br>0-1110952-9<br>1-1110952-0 |
| | | HF.06.Sti. | 0-1110948-1 |
| | | HF.06.Bu. | 0-1110949-1 |

## Crimphülsen max. 350 A/*Crimping sleeves max. 350 A*

### Crimphülsen für Kontaktserie HF-13/*Crimping sleeves for contact series HF-13*

| | | | |
|---|---|---|---|
| Crimphülsen für Stift-/Buchsenseite<br>bestehend aus<br>- Schrumpfschlauch<br>- Crimphülse<br>- Adapter<br>*Crimp barrel for pin-/socket side*<br>*- shrink tube*<br>*- crimp barrel*<br>*- adapter* | | CH.50mm²-13/16mm<br>CH.70mm²-13/16mm<br>CH.95mm²-13/16mm<br>CH.105mm²-13/16mm<br>CH.120mm²-13/16mm<br>CH.150mm²-13/16mm | 0-1110953-5<br>0-1110953-6<br>0-1110953-7<br>0-1110953-8<br>0-1110953-9<br>1-1110953-1 |

## Passendes Verarbeitungswerkzeug/*suitable tools*

| | | | |
|---|---|---|---|
| **Crimpzange** ohne Crimpbacken<br>***Crimping tool*** *without crimping jaws* | | HSS-CSZ.2,5-70mm² | 1-1105653-8 |
| **Crimpbacken für HSL, HSS**<br>***Crimping jaws for HSL, HSS*** | | CB-HSS-CSZ.6mm²<br>CB-HSS-CSZ.10mm²<br>CB-HSS-CSZ.16mm²<br>CB-HSS-CSZ.25mm²<br>CB-HSS-CSZ.35mm²<br>CB-HSS-CSZ.50mm²<br>CB-HSS-CSZ.70mm² | 2-1105653-8<br>3-1105653-8<br>4-1105653-8<br>5-1105653-8<br>6-1105653-8<br>7-1105653-8<br>8-1105653-8 |
| **Hydraulische Crimpzange**<br>***Hydraulic Crimping tool*** | | CZ-HF.60.M | 0-1110956-1 |
| **Presseinsätze**<br>***dies*** | | SET-50-150mm²<br>150mm²-KZ22<br>120mm²-KZ20<br>95mm²-KZ18<br>70mm²-KZ16<br>50mm²-KZ14 | 0-1110956-7<br>0-1110956-6<br>0-1110956-5<br>0-1110956-4<br>0-1110956-3<br>0-1110956-2 |



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
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## Koax-Kontakte/*Coax-contacts*

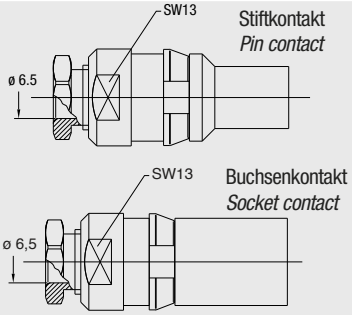
| **Koax-Kontakte RG58/RG59** | | ***Coax-contacts RG58/RG59*** | |
|---|---|---|---|
| Wellenimpedanz | 50 Ω / 75 Ω | *Wave impedance* | *50 Ω / 75 Ω* |
| spezifischer Widerstand | max. 2mΩ | *Specific resistance* | *max. 2m(* |
| Ziehkraft | min. 1N | *Unmating force* | *min. 1N* |
| Zugfestigkeit | min. 50N | *Tensile strength* | *min. 50N* |
| Spannungsfestigkeit | 1000VAC über 1min | *Dielectric withstanding voltage* | *1000VAC over/during? 1min* |
| Isolationswiderstand | 200 mΩ nach 1min Betrieb | *Insulation resistance* | *200 mΩ after 1min operation* |
| Steckkraft | max. 1,5N | *Mating force* | *max. 1,5N* |
| Werkstoff | Kupferlegierung | *Material* | *copper alloy* |
| Kontaktoberfläche | vergoldet | *contact surface* | *gold-plated* |
| Druckhülsenoberfläche | versilbert | *Ferrule surface* | *silver-plated* |
| Crimpanschluß | | *Crimp termination* | |

| **Bezeichnung** ***Description*** | | **Bestelltext** ***Designation*** | **Bestell-Nr./** ***Order No.*** **Stifteinsatz** ***Male insert*** | **Buchseneinsatz** ***Female insert*** |
|---|---|---|---|---|
| Koax Crimpkontakte/*Coax Crimp tcontacts* | Stiftkontakt *Pin contact* | KX-RG.58.Sti | 1-1105350-1 | |
| | | KX-RG.59.Sti | 2-1105350-1 | |
| | Buchsenkontakt *Socket contact* | KX-RG.58.Bu | | 1-1105351-1 |
| | | KX-RG.59.Bu | | 2-1105351-1 |

| **Koax-Kontakte** | | ***Coax-contacts*** | |
|---|---|---|---|
| Wellenimpedanz | 75 Ω | *Wave impedance* | *75 Ω* |
| Anschlußart | | *Type of termination* | |
| Innenleiter | Löt | *internal conductor* | *solder* |
| Außenleiter | Klemm | *outside conductor* | *clamp* |
| Kabeldurchmesser | | *Dimensions of the wire* | |
| Innenleiter | 0,8/1,44/2,8 | *internal conductor* | *0,8/1,44/2,8* |
| Außenleiter | 6,1/10,0/10,7 | *outside conductor* | *6,1/10,0/10,7* |

| Kabelabmasse *Cable measures* | Innen ø *Inner ø* | Schirm ø *Braid ø* | Außen ø *Outer ø* |
|---|---|---|---|
| KX.RG.58 | 0,81 | 2,95 | 4,95 |
| KX.RG.59 | 0,64 | 3,71 | 6,15 |
| KX.VT.0,8/3,5 | 0,8 | 3,5 | 6,1 |
| KX.VT.1,4/6,3 | 1,4 | 6,3 | 10,0 |
| KX.VT.3,0/7,3 | 3,0 | 7,3 | 10,8 |

| **Bezeichnung** ***Description*** | | **Bestelltext** ***Designation*** | **Bestell-Nr./** ***Order No.*** **Stifteinsatz** ***Male insert*** | **Buchseneinsatz** ***Female insert*** |
|---|---|---|---|---|
| Koax Crimpkontakte/*Coax Crimp tcontacts* | Stiftkontakt *Pin contact* | KX.VT.Sti.0,8/3,5/6,1 | 0-1108600-1 | |
| | | KX.VT.Sti.1,4/6,3/10,0 | 0-1108628-1 | |
| | | KX.VT.Sti.3,0/7,3/10,8 | 0-1108616-1 | |
| | Buchsenkontakt *Socket contact* | KX.VT.Bu.0,8/3,5/6,1 | | 0-1108601-1 |
| | | KX.VT.Bu.1,4/6,3/10,0 | | 0-1108629-1 |
| | | KX.VT.Bu.3,0/7,3/10,8 | | 0-1108617-1 |



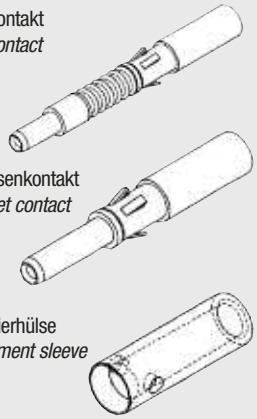

## Werkzeuge für Crimptechnik Koax/*Crimping tools Coax*

| **Bezeichnung** ***Description*** | | **Bestelltext** ***Designation*** | **Bestell-Nr./** ***Order No.*** | **Maße mm²** ***Dimensions mm²*** |
|---|---|---|---|---|
| Crimpzange Koax/*Crimping tool Coax* | | KX-CZ.58 | 0-0045740-2 | |
| Crimpzange Koax/*Crimping tool Coax* | | KX-CZ.59 +Matrize/Die | 69710-1 69675-1 | |
| Ausdrückwerkzeug KX RG 58/59 *Extraction tool KX RG 58/59* | | KX-AWZG.58/59 | 0-0305183-8 | |
| Ausdrückwerkzeug KX-VT *Extraction tool KX-VT* | | KX-VT-AWZG | 1-1105752-8 | |

## Kontakte (Optik) HD-LWL Serie/*Contacts (Optics) HD-LWL series*

| **LWL-Kontakte (Optik)** | | ***LWL-contacts (optics)*** | |
|---|---|---|---|
| Kontakt-Werkstoff Ms, | verzinnt und rostfreier Stahl | *Contact-material Ms,* | *tin-plated and stainless steel* |
| Zentrierhülse-Werkstoff | Thermoplast | *Material of centering ferrule* | *thermoplastics* |
| Zusammenstellung: | kurzer Kontakt mit Zentrierhülse | *assembly:* | *short contact with centering ferrule* |
| | langer Kontakt | | *long contact* |
| Einfügungsdämpfung | <2dB | *insertion loss* | *<2dB* |
| Steckhäufigkeit | 50 Zyklen | *mating frequency* | *50 cycles* |
| Betriebstemperatur | -20°C - +80°C | *Operating temperature* | *-20°C - +80°C* |
| Kabelhaltekraft im Kontakt [N] | min 30 | *holding power of the cable in the contact [N]* | *min 30* |
| Kontakthaltekraft im Modul | min 40 | *contact retention force in the module* | *min 40* |
| Leitungstype 1mm Plastik-Lichtwellenleiter | | *cable type 1mm plastic-fiber optics* | |
| mit 2,2mm Mantel | | *with 2,2mm sleeve* | |
| Crimpanschluß | | *Crimp connection* | |

| **Bezeichnung** ***Description*** | **Zentrierhülse** ***Alignment sleeve*** | **Stifteinsatz** ***Male insert*** | **Buchseneinsatz** ***Female insert*** |
|---|---|---|---|
| Stiftkontakt *Pin contact* | | 0-0216341-1 | |
| Buchsenkontakt mit Zentrierhülse *Socket contact with alignment sleeve* | | | |
| Zentrierhülse für kurzen Kontakt *Alignment sleeve for short contact* | | | |
| Stiftkontakt *Pin contact* | | | 0-0216342-1 |
| Buchsenkontakt *Socket contact* | | | |
| Zentrierhülse *Alignment sleeve* | 0-1102921-1 | | |



## Werkzeuge für Crimptechnik Koax/*Crimping tools Coax*

| **Bezeichnung** ***Description*** | **Bestelltext** ***Designation*** | **Bestell-Nr./** ***Order No.*** | **Maße mm²** ***Dimensions mm²*** |
|---|---|---|---|
| Crimpzange/*Crimping tool* | Crimpzange | 0-0090364-2 | |
| Faserstripper/*Cable stripper* | Faserstripper | 0-0501198-1 | |
| Schneidlehre o. Abb./*Cutting gauge* | Schneidlehre | 0-0100281-1 | |
| Rückschmelzofen/*Hot melting Unit* | Rückschmelzofen | 0-0734423-1 | |
| Schmelzlehre lange Kontakte/*Melting gauge long contact* | Schmelzlehre lange Kontakte | 0-0100606-2 | |
| Schmelzlehre kurze Kontakte/*Melting gauge short contact* | Schmelzlehre kurze Kontakte | 0-0100281-2 | |
| Ausdrückwerkzeug HD/*Extraction tool HD* | AWZG-HD.M-RSZ | 0-1102855-1 | |
| Eindrückwerkzeug/*Insertion tool* | EWZG-RZS | 0-1102855-6 | |

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HA.3/HA.4 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 1***

**Schraubanschluss**

***Screw terminal***

**Kontaktzahlen**
***No. of contacts***

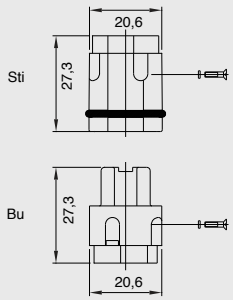
**3/4 + ⏚**

**250 V/10 A**

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Stifteinsatz/*Male insert* | Buchseneinsatz/*Female insert* | | | |
| **HA.3 Kontakteinsätze/*Contact inserts*** | | | | |
| Schraubanschluss/*Screw terminal* | | | | |
| | | HA.3.Sti.S | 1-1103400-1 | |
| | | HA.3.Bu.S | | 1-1103401-1 |
| **HA.4 Kontakteinsätze/*Contact inserts*** | | | | |
| Schraubanschluss/*Screw terminal* | | | | |
| | | HA.4.Sti.S | 1-1103402-1 | |
| | | HA.4.Bu.S | | 1-1103403-1 |

## HA.3

**Maßbild mm/*Dimensions mm***

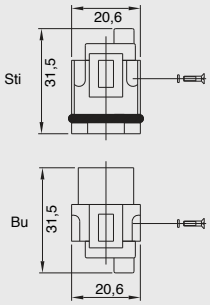



Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*

Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*

## HA.4

**Maßbild mm/*Dimensions mm***




Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*

Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HE-Q.5 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 1***

**Crimpanschluss für gedrehte HE Crimpkontakte**

***Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

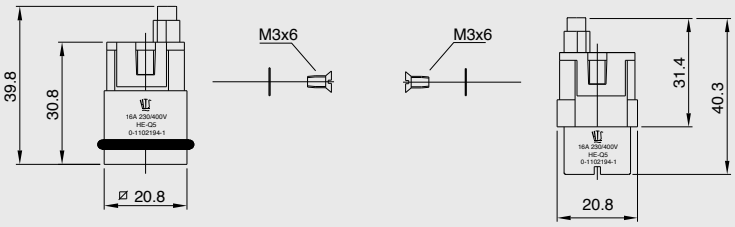
**5 +** ⏚

**400 V/16 A**

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Stifteinsatz/*Male insert* | Buchseneinsatz/*Female insert* | | | |
| Crimpanschluss/*Crimp terminal* | | | | |
| | | HE-Q.5.Sti.C | 0-1102195-1 | |
| | | HE-Q.5.Bu.C | | 0-1102194-1 |

Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*

Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.7/HN.D.8 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 1***

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**7/8 +** ⏚

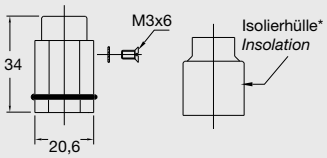
**250 V/10 A / 42* V/10 A**

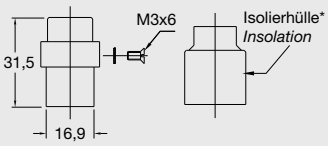
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| | HN.D.7.Sti.C.250V<br>HN.D.7.Sti.C.42V* | 2-1103100-3<br>2-1103102-3 | |
| Buchseneinsatz/*Female insert* | | | |
| | HN.D.7.Bu.C.250V<br>HN.D.7.Bu.C.42V* | | 2-1103101-3<br>2-1103103-3 |
| | HN.D.8.Sti.C.42V* | 2-1103104-3 | |
| | HN.D.8.Bu.C.42V* | | 2-1103105-3 |

*Einschränkung der Nennspannung (42 V) nur bei Verwendung von Metallgehäusen wie Serie HA.3. Bei Verwendung von Kunststoffgehäusen (Serie HD.7) beträgt die Nennspannung 250 V.
*Limited nominal Voltage (42 V) only in combination with metal housing series as HA.3 series. When used with nylon housings (Seies HD.7) the rated voltage is 250 V.*

Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

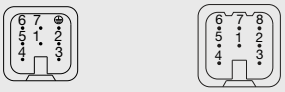
**Maßbild mm**
***Dimensions mm***



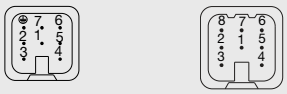




Isolierhülle nur für Variante 250V
*Insolation only for 250V insert*

Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*



Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*



## HD.7 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 1***

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD.M crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**7/8 +** ⏚

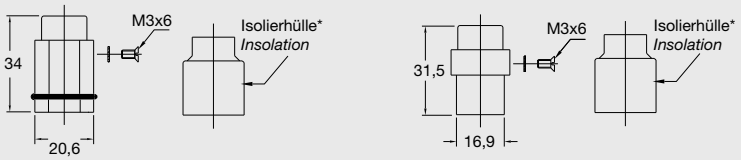
**250 V/10 A / 42V/10A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| | HD.7.Sti.C.250V<br>HD.7.Sti.C.42V* | 2-1103000-3<br>2-1103002-3 | |
| Buchseneinsatz/*Female insert* | | | |
| | HD.7.Bu.C.250V<br>HD.7.Bu.C.42V* | | 2-1103001-3<br>2-1103003-3 |
| | HD.8.Sti.C.42V* | 0-1102892-1 | |
| | HD.8.Bu.C.42V* | | 0-1102893-1 |

*Einschränkung der Nennspannung (42 V) nur bei Verwendung von Metallgehäusen wie Serie HA.3. Bei Verwendung von Kunststoffgehäusen (Serie HD.7) beträgt die Nennspannung 250 V.
*Limited nominal Voltage (42 V) only in combination with metal housing series as HA.3 series. When used with nylon housings (Seies HD.7) the rated voltage is 250 V.*

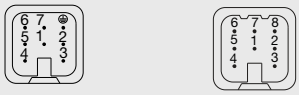
Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***

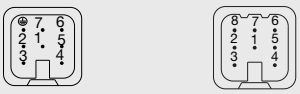



Isolierhülle nur für Variante 250V
*Insolation only for 250V insert*

Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*



Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*





Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

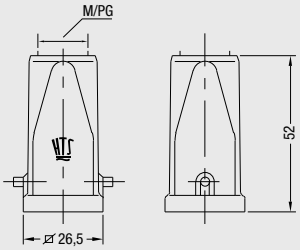
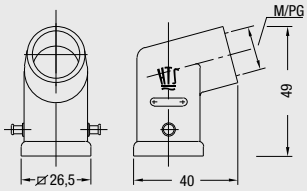
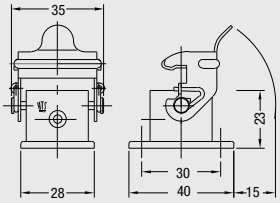
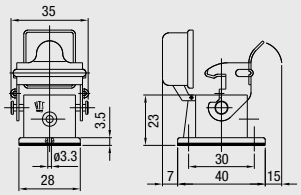
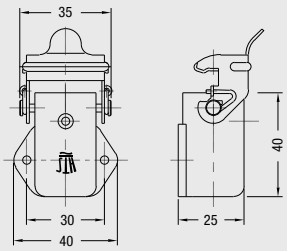
## HA.3 Gehäuse/*Housings* — Baugröße/*Size 1*

**Pulverbeschichtet, silbergrau**

***Powder-coated, silver-grey***

***Zubehör siehe Seite 189**
****Accessories see page 189***

## Längsbügel am Unterteil/*Side clip at housing bottom* — (IP 44) IP 65*

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben<br>***Hood:*** *Top entry* | | | | |
|   | M16<br>M20 | 11 | HA.3.STO.1.11.Z<br>HA.3.STO.1.M16.Z<br>HA.3.STO.1.M20.Z | 1-1102101-7<br>0-1106405-1<br>0-1106405-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M16 | 11 | HA-K.3.STO.1.11.Z<br>HA-K.3.STO.1.M16G | 2-1102101-7<br>0-1106405-2 |
| **Steckergehäuse:** Kabeleingang seitlich<br>***Hood:*** *Side entry* | | | | |
|   | M16<br>M20 | 11 | HA.3.STW.1.11.Z<br>HA.3.STW.1.M16.Z<br>HA.3.STW.1.M20.Z | 1-1102103-7<br>0-1106406-1<br>0-1106406-3 |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | | |
|   | | | HA.3.AG-LB | 1-1102105-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HA-K.3.AG-LB | 2-1102105-2 |
| Montageausschnitt/*Panel cut-out 22 x22* | | | | |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | | |
|   | | | *HA.3.AGD-LB* | 1-1102106-2 |
| Montageausschnitt/*Panel cut-out 22 x22* | | | | |
| **Winkel-Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | | |
|   | | | *HA.3.AGW-LB* | 1-1102107-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HA-K.3.AGW-LB | 2-1102107-2 |
| Montageausschnitt/*Panel cut-out ø 20* | | | | |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

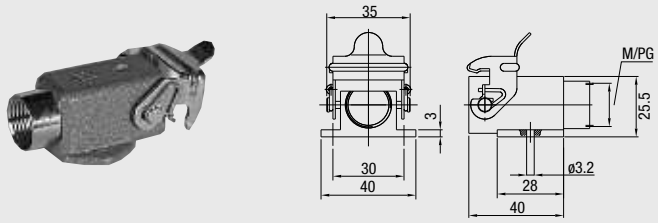
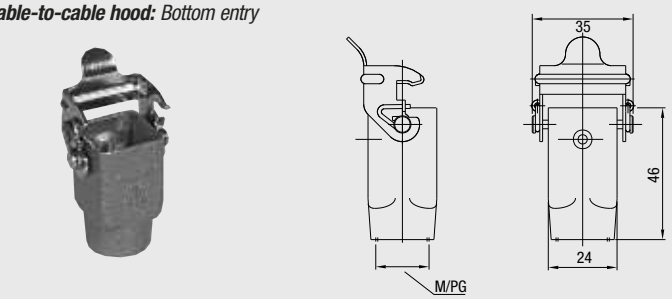
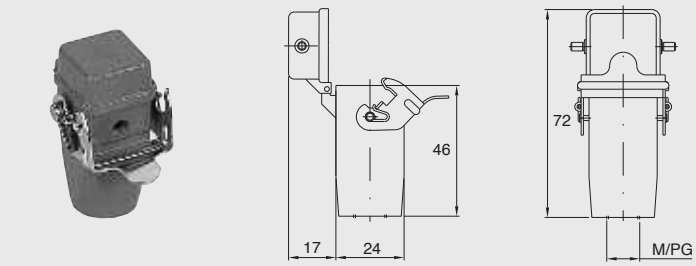
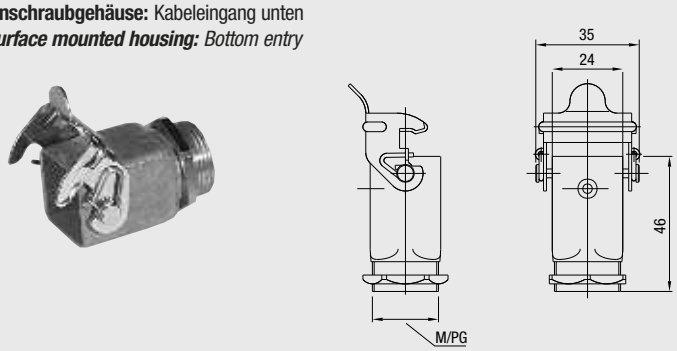
## HA.3 Gehäuse/*Housings* — Baugröße/*Size 1*

**Pulverbeschichtet, silbergrau**

***Powder-coated, silver-grey***

***Zubehör siehe Seite 189**
****Accessories see page 189***

## Längsbügel am Unterteil/*Side clip at housing bottom* — (IP 44) IP 65*

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich<br>***Surface mounted housing:*** *Side entry* | | | | |
|  | M16<br>M20 | 11<br>11 | HA.3.SG-LB.1.11.G<br>HA.3.SG-LB.1.11.Z<br>HA.3.SG-LB.1.M16.Z<br>HA.3.SG-LB.1.M20.G | 1-1102110-2<br>1-1102109-2<br>0-1106404-1<br>0-1106404-3 |
| **Kupplungsgehäuse:** Kabeleingang unten<br>***Cable-to-cable hood:*** *Bottom entry* | | | | |
|  | M16 | 11 | HA.3.KDO-LB.1.11.Z<br>HA.3.KDO-LB.1.M16.Z | 1-1102112-2<br>0-1106403-1 |
| **Kupplungsgehäuse mit Deckel**<br>***Cable-to-cable hood with cover*** | | | | |
|  | | 11 | HA.3.KDOD-LB.1.11Z | 1-1108759-2 |
| **Einschraubgehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | | |
|  | M20 | 16 | HA.3.EG-LB/A.1.16.Z<br>HA.3.EG-LB/M.1.20.Z | 1-1102114-2<br>0-1102874-1 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



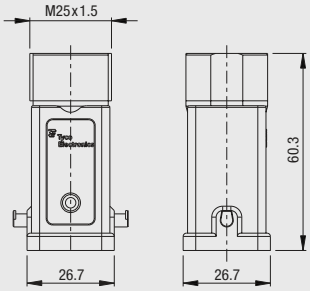
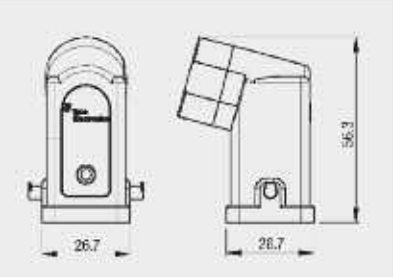
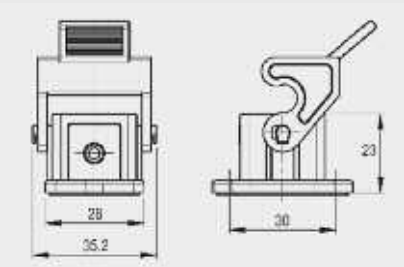
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HG-Q.5 Gehäuse/*Housings* — Baugröße/*Size 1*

**Kunststoff, glasfaserverstärkt, weiß**
**BL = schwarz**

***Plastic, glass-fibre reinforced, white***
***BL = black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben<br>***Hood:*** *Top entry*<br>  | M25<br>M25 | | HG-Q.5.STO.1.M25<br>HG-Q.5.STO.1.M25.BL | 0-1103169-1<br>0-1103169-2 |
| **Steckergehäuse:** Kabeleingang seitlich<br>***Hood:*** *Side entry*<br>  | M25<br>M25 | | HG-Q.5.STW.1.M25<br>HG-Q.5.STW.1.M25.BL | 0-1103170-1<br>0-1103170-2 |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry*<br>  <br>Montageausschnitt/*Panel cut-out 22 x22* | | | HG-Q.5.AG<br>HG-Q.5.AG.BL | 0-1103171-1<br>0-1103171-2 |

## Passende Hut-Verschraubungen auf Seite 59/*Suitable gland fittings from page 59*

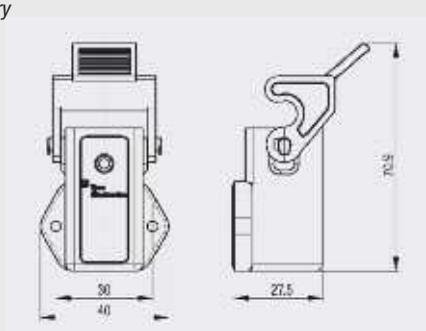
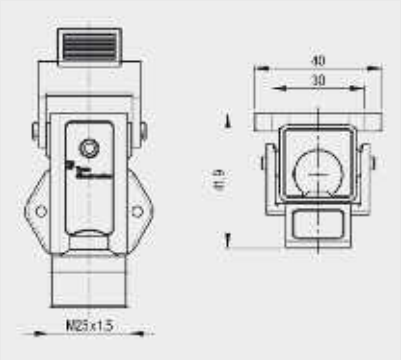
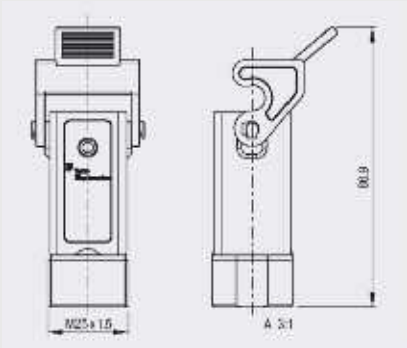
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HG-Q.5 Gehäuse/*Housings* — Baugröße/*Size 1*

**Kunststoff, glasfaserverstärkt, weiß**
**BL = schwarz**

***Plastic, glass-fibre reinforced, white***
***BL = black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Winkel-Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry*<br>  <br>Montageausschnitt/*Panel cut-out ø 20* | | | HG-Q.5.AGW<br>HG-Q.5.AGW.BL | 0-1103172-1<br>0-1103172-2 |
| **Sockelgehäuse:** Kabeleingang seitlich<br>***Surface mounted housing:*** *Side entry*<br>  | M25<br>M25 | | HG-Q.5.SG.1.M25<br>HG-Q.5.SG.1.M25.BL | 0-1103173-1<br>0-1103173-2 |
| **Kupplungsgehäuse:** Kabeleingang oben, Standard Bauform<br>***Cable-to-cable hood:*** *Top entry, Standard construction*<br>  | M25<br>M25 | | HG-Q.5.KDO.1.M25<br>HG-Q.5KDO.1.M25.BL | 0-1103174-1<br>0-1103174-2 |

## Passende Hut-Verschraubungen auf Seite 59/*Suitable gland fittings from page 59*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

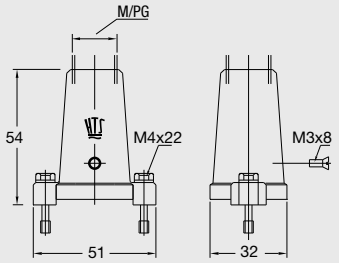
## HIP.3/4, HIP-K.3/4, EMV-K.3/4 Gehäuse/*Housings* — Baugröße/*Size 1*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

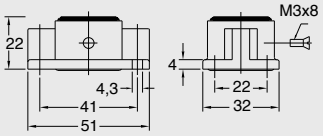
## Schraubverriegelung am Oberteil/*Screw lock on hood* — IP 68

**Steckergehäuse:** Kabeleingang oben
***Hood:*** *Top entry*




| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| | | | **HIP** | |
| | | 11 | HIP.3/4.STO.1.11.G | 1-1102600-5 |
| | M16 | | HIP.3/4.STO.1.M16.G | 0-1106408-1 |
| | | | **HIP-K** | |
| | | 11 | HIP-K.3/4.STO.1.11.G | 2-1102600-5 |
| | M16 | | HIP-K.3/4.STO.1.M16.G | 0-1106408-2 |
| | M20 | | HIP-K.3/4.STO.1.M20.G | 0-1106408-3 |
| | | | **EMV-K** | |
| | | 11 | EMV-K.3/4.STO.1.11.G | 4-1102700-5 |
| | M16 | | EMV-K.3/4.STO.1.M16.G | 0-1106402-2 |
| | M20 | | EMV-K.3/4.STO.1.M20.G | 0-1106402-3 |

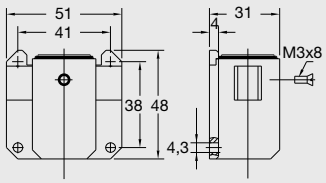
**Anbaugehäuse:** Kabeleingang unten
***Surface mounted housing:*** *Bottom entry*




Montageausschnitt/*Panel cut-out 21 x 21*

| | | | | |
|---|---|---|---|---|
| | | | **HIP** | |
| | | | HIP.3/4.AG | 1-1102603-5 |
| | | | **HIP-K** | |
| | | | HIP-K.3/4.AG | 2-1102603-5 |
| | | | **EMV-K** | |
| | | | EMV-K.3/4.AG | 4-1102703-5 |

**Sockelgehäuse:** Kabeleingang unten (durch Montageausschnitt)
***Surface mounted housing:*** *Bottom entry (by panel cut-out)*




Montageausschnitt/*Panel cut-out ø 20*

| | | | | |
|---|---|---|---|---|
| | | | **HIP** | |
| | | | HIP.3/4.SGF | 1-1102602-5 |
| | | | **HIP-K** | |
| | | | HIP-K.3/4.SGF | 2-1102602-5 |
| | | | **EMV-K** | |
| | | | EMV-K.3/4.SGF | 4-1102702-5 |

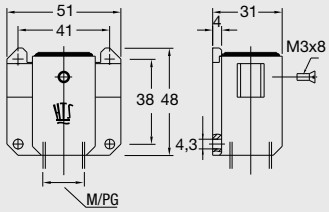
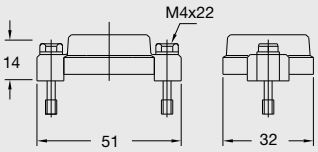
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HIP.3/4, HIP-K.3/4, EMV-K.3/4 Gehäuse/*Housings* — Baugröße/*Size 1*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

## Schraubverriegelung am Oberteil/*Screw lock on hood* — IP 68

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich<br>***Surface mounted housing:*** *Side entry* | | | | |
|   | | | **HIP** | |
| | M16 | 11 | HIP.3/4.SG.1.11.G | 1-1102601-5 |
| | M16 | | HIP.3/4.SG.1.M16.G | 0-1106407-1 |
| | M20 | | HIP.3/4.SG.1.M20.G | 0-1106401-4 |
| | | | **HIP-K** | |
| | M16 | 11 | HIP-K.3/4.SG.1.11.G | 2-1102601-5 |
| | M16 | | HIP-K.3/4.SG.1.M16.G | 0-1106407-2 |
| | | | **EMV-K** | |
| | M16 | 11 | EMV-K.3/4.SG.1.11.G | 4-1102701-5 |
| | M16 | | EMV-K.3/4.SG.1.M16.G | 0-1106401-2 |
| | M20 | | EMV-K.3/4.SG.1.M20.G | 0-1106401-3 |
| **Schutzkappe für Gehäuse-Unterteile**<br>***Protective covers for housings*** | | | | |
|   | | | **HIP/EMV** | |
| | | | HIP/EMV.3/4.SKB | 3-1106200-5 |
| | | | **HIP-K/EMV-K** | |
| | | | HIP-K/EMV-K.3/4.SKB | 4-1106200-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

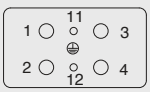
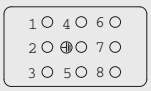
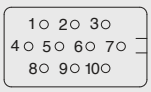
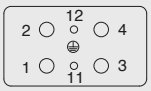
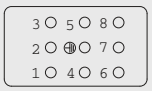
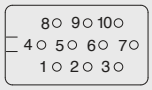
## HG-Q Kontakteinsätze/*Contact inserts*

**Baugröße/*Size Q***

**Kontaktzahlen**
***No. of contacts***

| 4/2 + ⏚ | 8 + ⏚ | 10 |
|---|---|---|
| 4 x 690 V/40A & 2 x 250 V/10A | 8 x 500 V/16A | 10 x 400 V/20A |

| **Bezeichnung** *Description* | **Bestelltext** *Designation* | **Bestell-Nr./*Order No.*** Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Buchseneneinsatz/*Female insert* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| | HG-Q.4/2.Sti.C | 0-1103095-1 | |
| | HG-Q.4/2.Bu.C | | 0-1103096-1 |
| Passende Crimpakontakte Power siehe Seite 39, passende Crimpakontakte Signal siehe Seite 34<br>*Suitable Crimp contacts power see page 39, suitable Crimp contacts signal see page 39* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| | HG-Q.8.Sti.C | 0-1103070-1 | |
| | HG-Q.8.Bu.C | | 0-1103071-1 |
| Passende Crimpakontakte siehe Seite 37/*Suitable Crimp contacts see page 37* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| siehe auch Seite 58<br>*see also page 58* | HG-Q.10 Housings | X-1103092-X | |
| | HG-Q.10 Sti.C | 0-1108808-1 | |
| | HG-Q.10.Bu.C | | 0-1103091-1 |
| Passende Crimpakontakte siehe Seite 36/*Suitable Crimp contacts see page 36* | | | |

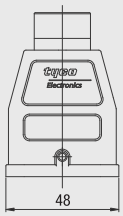
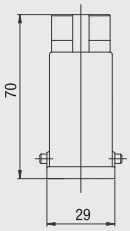
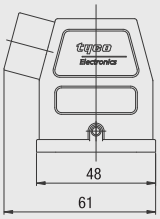
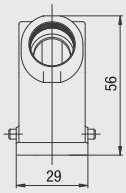
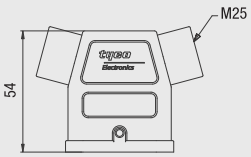
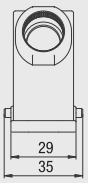
| HE-Q.4/2 | HE-Q.8 | HE-Q.10 |
|---|---|---|
| Kontaktanordnung Anschlußseite Stift/*Contact arrangement Male insert* | | |
|  |  |  |
| Kontaktanordnung Anschlußseite Buchse/*Contact arrangement Female insert* | | |
|  |  |  |

## HG-Q Gehäuse/*Housings* — Baugröße/*Size Q*

**Kunststoff, glasfaserverstärkt**
**EMV: Schutz gegen elektromagnetische Beeinflussung**

***Plastic glass-fibre reinforced***
***EMV: Protection against electro-magnetic interference***

**IP 65**

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben<br>***Hood:*** *Top entry* | | | | |
|     | M25 | | HG-Q.STO.1.M25.Z | 0-1103073-2 |
| | M25 | | **EMV**<br>HG-Q-EMV.STO.1.M25.Z | 0-1103073-4 |
| **Steckergehäuse:** Kabeleingang seitlich<br>***Hood:*** *Side entry* | | | | |
|     | M25 | | HG-Q.STS.1.M25.Z | 0-1103073-1 |
| | M25 | | **EMV**<br>HG-Q-EMV.STO.1.M25.Z | 0-1103073-3 |
| **Steckergehäuse:** Kabeleingang zweiseitig<br>***Hood:*** *both side entry* | | | | |
|     | M25 | | HG-Q.STS.2.M25.Z | 0-1103155-1 |
| | M25 | | **EMV**<br>HG-Q-EMV.STS.2.M25.Z | 0-1103155-2 |

## Passende Kabelverschraubungen Seite 59/*Suitable Cable fittings page 59*



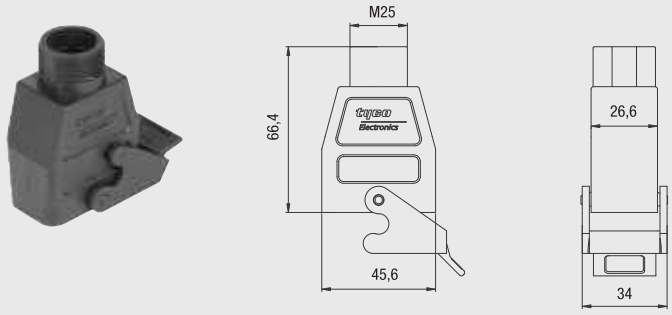
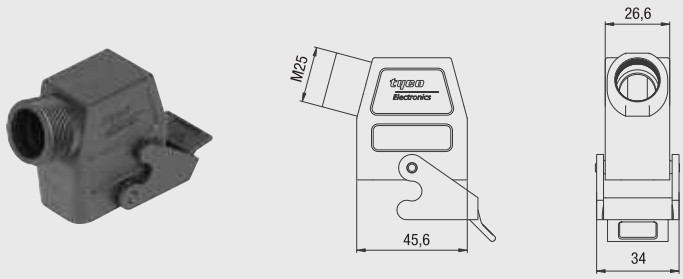
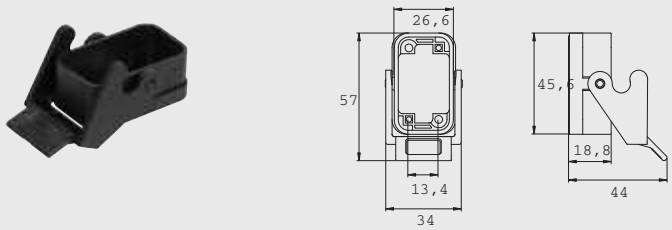
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HG-Q Gehäuse/*Housings* — Baugröße/*Size Q*

**Kunststoff, glasfaserverstärkt**
**EMV: Schutz gegen elektromagnetische Beeinflussung**

***Plastic glass-fibre reinforced***
***EMV: Protection against electro-magnetic interference***

**IP 65**

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Kupplungsgehäuse:** Kabeleingang unten *Cable-to-cable hood: Bottom entry* | | | | |
|  | M25 | | HG-Q.KDO-LB.1.M25.Z | 0-1108795-1 |
| | M25 | | **EMV** HG-Q-EMV.KDO-LB.1.M25.Z | 0-1108795-3 |
| **Kupplungsgehäuse:** Kabeleingang seitlich *Cable-to-cable hood: Side entry* | | | | |
|  | M25 | | HG-Q.KDS-LB.1.M25.Z | 0-1108795-2 |
| | M25 | | **EMV** HG-Q-EMV.KDS-LB.1.M25.Z | 0-1108795-4 |
| **Kupplungsgehäuse:** Kabeleingang unten *Surface mount housing: Bottom entry* | | | | |
|  | | | HG-Q.AG-LB | 0-1103072-1 |
| | | | **EMV** HG-Q-EMV.AG-LB | 0-1103072-2 |

**Passende Kabelverschraubungen Seite 59/*Suitable Cable fittings page 59***

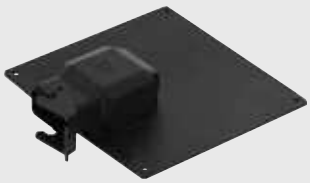
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

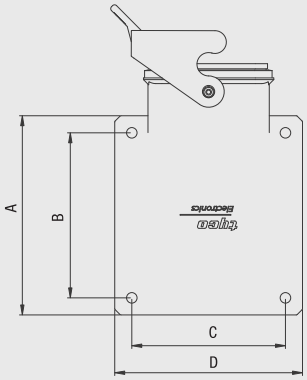
## HG-Q.10 Motorgehäuse/*Motor housings* — Baugröße/*Size Q*

**Kunststoff, glasfaserverstärkt**
**EMV: Schutz gegen elektromagnetische Beeinflussung**

***Plastic glass-fibre reinforced***
***EMV: Protection against electro-magnetic interference***

**400 V/20 A — IP 65**

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| | | | HG-Q.10.MC.1 | 0-1103092-1 |
| | | | **EMV** HG-Q.10-EMV.MC.1 | 0-1103092-8 |
| | | | HG-Q.10.MC.2 | 0-1103092-2 |
| | | | **EMV** HG-Q.10-EMV.MC.2 | 0-1103092-9 |
| | | | HG-Q.10.MC.3 | 0-1103092-3 |
| | | | **EMV** HG-Q.10-EMV.MC.3 | 1-1103092-0 |
| | | | HG-Q.10.MC.4 | 0-1103092-4 |
| | | | **EMV** HG-Q.10-EMV.MC.4 | 1-1103092-1 |
| | | | HG-Q.10.MC.5 | 0-1103092-5 |
| | | | **EMV** HG-Q.10-EMV.MC.5 | 1-1103092-2 |
| | | | HG-Q.10.MC.6 | 0-1103092-6 |
| | | | **EMV** HG-Q.10-EMV.MC.6 | 1-1103092-3 |
|  | | | HG-Q.10.MC.7 | 0-1103092-7 |
| | | | **EMV** HG-Q.10-EMV.MC.7 | 1-1103092-4 |




Maße/*Dimensions* mm

| PN | A | B | C | D |
|---|---|---|---|---|
| **0–1, 0–8** | **70** | **58** | **54** | **66** |
| **0–2, 0–9** | **70** | **60** | **60** | **70** |
| **0–3, 1–0** | **74** | **56** | **56** | **74** |
| **0–4, 1–1** | **75** | **64** | **64** | **75** |
| **0–5, 1–2** | **120** | **105** | **105** | **120** |
| **0–6, 1–3** | **140** | **125** | **125** | **140** |
| **0–7, 1–4** | **165** | **130** | **150** | **165** |

## Passende Crimpkontakte Seite 36/*Suitable Crimp contacts page 36*



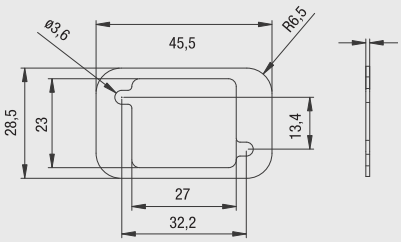
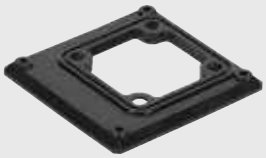
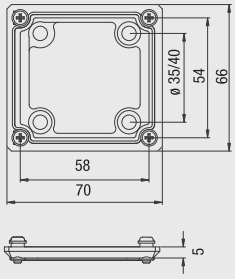
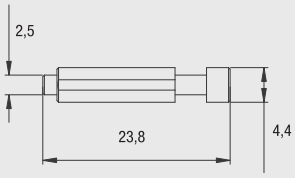
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HG-Q Zubehör/*Accessories* — Baugröße/*Size Q*

**Kunststoff, glasfaserverstärkt**
**EMV: Schutz gegen elektromagnetische Beeinflussung**

***Plastic glass-fibre reinforced***
***EMV: Protection against electro-magnetic interference***

**IP 65**

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Flanschdichtung für HG-Q.8 Anbaugehäuse** *Flange sealing for HG-Q.8 Surface Mount Housing* | | | | |
|   | | | **Leitend / *Conductive*** HG-Q.Fl-dicht-L | 0-1108794-2 |
| **Adapterplatte für HG-Q.10, IP 65 aus Kunststoff** *Adaptor flange for HG-Q.10, IP 65 plastic* | | | | |
|    | | | HG-Q.10.FL.1<br>HG-Q.10.FL.2 | 0-1103093-1<br>0-1103093-2 |
| | | | **EMV**<br>HG-Q.10-EMV.FL.1<br>HG-Q.10-EMV.FL.2 | <br>0-1103093-3<br>0-1103093-4 |
| **Hut-Verschraubung M, IP 68 aus Kunststoff** *Gland fitting, IP 68 plastic* | | | | |
| Alle Hut-Verschraubungen werden mit schwarzen M25 Druckschrauben geliefert *All glands are supplied with a black M25 nut* | Gelb/*Yellow*<br>Grau/*Grey*<br>Schwarz/*Black*<br>Grün/*Green*<br>Rot/*Red*<br>Weiß/*White* | M25<br>M25<br>M25<br>M25<br>M25<br>M25 | HG-Q.M25.6,5/4,0<br>HG-Q.M25.8,0/5,0<br>HG-Q.M25.9,5/6,5<br>HG-Q.M25.10,5/7,0<br>HG-Q.M25.13,0/9,0<br>HG-Q.M25.15,5/11,5 | 0-1103074-1<br>0-1103074-2<br>0-1103074-3<br>0-1103074-4<br>0-1103074-5<br>0-1103074-6 |
| **Abdeckung für alle HG-Q Gehäuse/*Cover for all HG-Q housings*** | | | | |
| | | | Set-HG-Q.8.SKP | 0-1108818-1 |
| **Sicherheitsstift für Q.5 und Q.8, HE, HEE** *Coding pin for Q.5 and Q.8, HE, HEE* | | | | |
|   | | | Sich-Stift.HVE.C | 0-1110984-4 |

## HA.10 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 2***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**10 +** ⏚

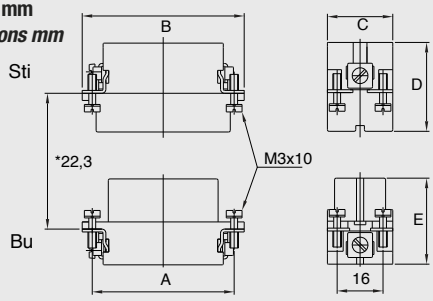
**250 V/16A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* / Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HA.10.Sti.S.B1-10 | 1-1103414-1 | |
| | HA.10.Bu.S.B1-10 | | 1-1103415-1 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HA.10.Sti.SC.B1-10 | 7-1103414-1 | |
| | HA.10.Bu.SC.B1-10 | | 7-1103415-1 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HA.10.Sti.C.B1-10 | 2-1103414-3 | |
| | HA.10.Bu.C.B1-10 | | 2-1103415-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **49,5** | **57** | **23** | **31** | **28** |

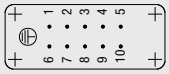
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

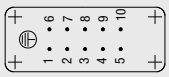



*Abstand für sichere Kontaktgabe max. 24 mm

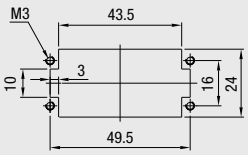
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.15 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 2*

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**15 +** ⏚

**250 V/10 A**

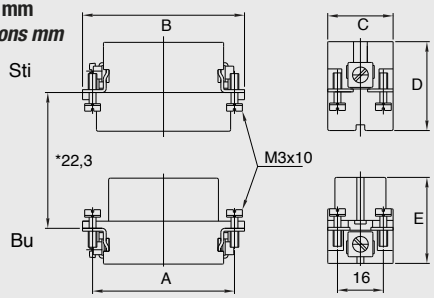
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HN.D.15.Sti.C | 2-1103106-3 | |
| Buchseneinsatz/*Female insert* | HN.D.15.Bu.C | | 2-1103107-3 |

Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **49,5** | **57** | **23** | **35** | **35** |

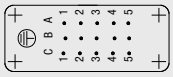
Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

**Maßbild mm**
***Dimensions mm***

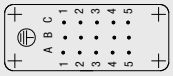



*Abstand für sichere Kontaktgabe max. 24 mm

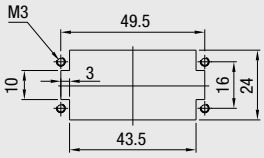
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



## HD.15 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 2***

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

**Kontaktzahlen**
***No. of contacts***

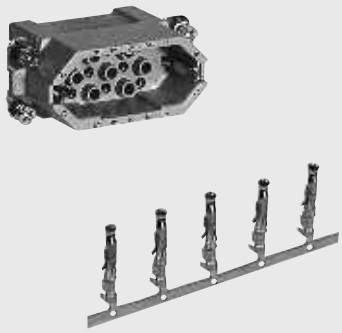
***Crimp terminal for stamped HD .Mcrimp contacts***

**15 + ⏚**

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.15.Sti.C | 2-1103004-3 | |
| Buchseneinsatz/*Female insert* | HD.15.Bu.C | | 2-1103005-3 |

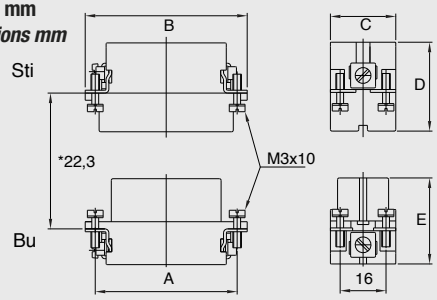
Crimpanschluss/*Crimp terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **49,5** | **57** | **23** | **35** | **35** |

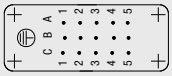
Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***

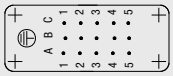



*Abstand für sichere Kontaktgabe max. 24 mm

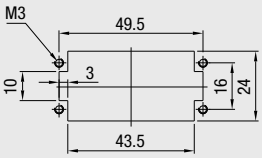
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*



Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*



Montageausschnitt
*Panel cut-out*





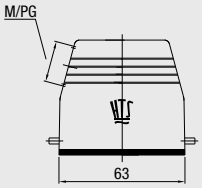
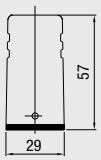
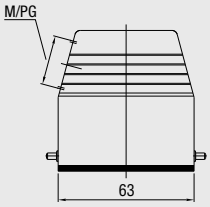
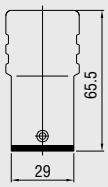
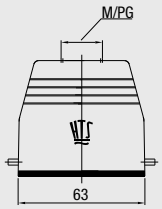
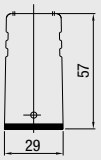
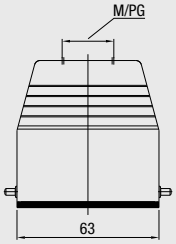
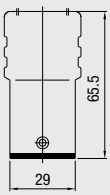

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HA.10/HD.15 Gehäuse/*Housings* — Baugröße/*Size 2*

**Pulverbeschichtet, silbergrau**

***Powder-coated, silver-grey***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|     | M20<br>M25 | 13<br>16 | HA.10.STS.1.13.G<br>HA.10.STS.1.16.G<br>HA.10.STS.1.M.20.G<br>HA.10.STS.1.M.25.G | 0-1102599-3<br>1-1102117-7<br>0-1106411-2<br>0-1106411-6 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|     | M25 | 16<br>21 | HD.15.STS.1.16.G<br>HD.15.STS.1.21.G<br>HD.15.STS.1.M25.G | 1-1102427-7<br>1-1102430-7<br>0-1106414-2 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|     | M20 | 16 | HA.10.STO.1.16.G<br>HA.10.STO.1.M.20.G | 1-1102120-7<br>0-1106411-1 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|     | M25 | 16<br>21 | HD.15.STO.1.16.G<br>HD.15.STO.1.21.G<br>HD.15.STO.1.M.25.G | 1-1102433-7<br>1-1102436-7<br>0-1106414-1 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

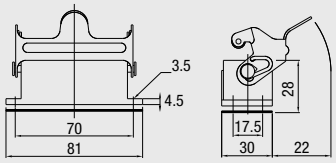
## HA.10/HD.15 Gehäuse/*Housings* — Baugröße/*Size 2*

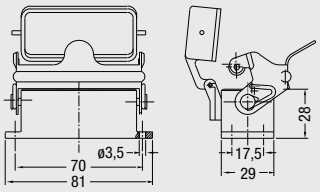
**Pulverbeschichtet, silbergrau**

***Powder-coated, silver-grey***

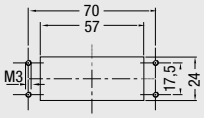
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

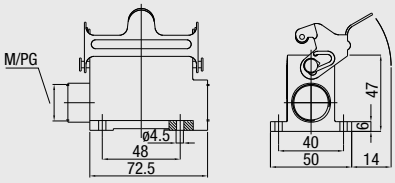
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HA.10.AG-LB | 1-1102121-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HA.10.AGD-LB | 1-1102122-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | M20<br>2xM20 | 16<br>2x16 | HA.10.SG-LB.1.16.Z<br>HA.10.SG-LB.2.16.Z<br>HA.10.SG-LB.1.M20.Z<br>HA.10.SG-LB.2.M20.Z | 1-1102124-2<br>1-1102126-2<br>0-1103057-1<br>0-1106410-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | 2xM25 | 16<br>21<br>2x16<br>2x21 | HD.15.SG-LB.1.16.Z<br>HD.15.SG-LB.1.21.Z<br>HD.15.SG-LB.2.16.Z<br>HD.15.SG-LB.2.21.Z<br>HD.15.SG-LB.2.M25.Z | 1-1102438-2<br>1-1102442-2<br>1-1102440-2<br>1-1102444-2<br>0-1106413-2 |

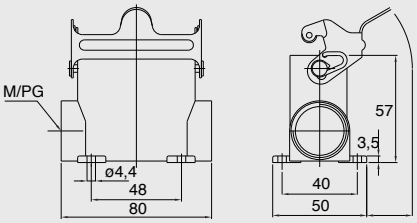





Montageausschnitt/*Panel cut-out*








## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

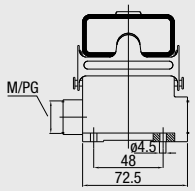
## HA.10/HD.15 Gehäuse/*Housings* — Baugröße/*Size 2*

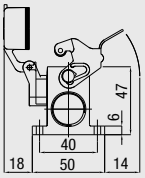
**Pulverbeschichtet, silbergrau**

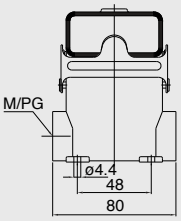
***Powder-coated, silver-grey***

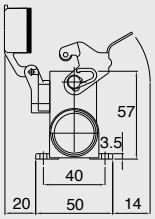
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

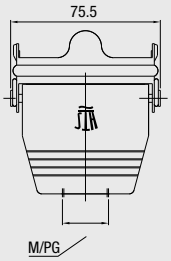
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | M20<br>2xM20 | 16<br>2x16 | HA.10.SGD-LB.1.16.Z<br>HA.10.SGD-LB.2.16.Z<br>HA.10.SGD-LB.1.M20.Z<br>HA.10.SGD-LB.2.M20.Z | 1-1102128-2<br>1-1102130-2<br>0-1103057-2<br>0-1106410-1 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | 2xM25 | 16<br>21<br>2x16<br>2x21 | HD.15.SGD-LB.1.16.Z<br>HD.15.SGD-LB.1.21.Z<br>HD.15.SGD-LB.2.16.Z<br>HD.15.SGD-LB.2.21.Z<br>HD.15.SGD-LB.2.M25.Z | 1-1102446-2<br>1-1102450-2<br>1-1102448-2<br>1-1102452-2<br>0-1106413-1 |
| **Kupplungsgehäuse:** Kabeleingang unten, Standard Bauform<br>***Cable-to-cable hood:*** *Bottom entry, Standard construction* | M20 | 16 | HA.10.KDO-LB.1.16.G<br>HA.10.KDO-LB.1.M20.G | 1-1102133-2<br>0-1106409-1 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | M25 | 16<br>21 | HD.15.KDO-LB.1.16.G<br>HD.15.KDO-LB.1.21.G<br>HD.15.KDO-LB.1.M25.G | 1-1102455-2<br>1-1102458-2<br>0-1106412-1 |

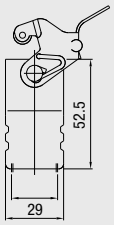


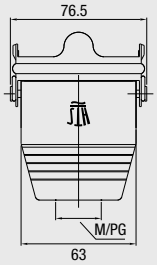


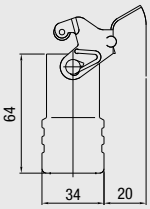













## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
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## HE.6 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 3***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**6 +** ⏚

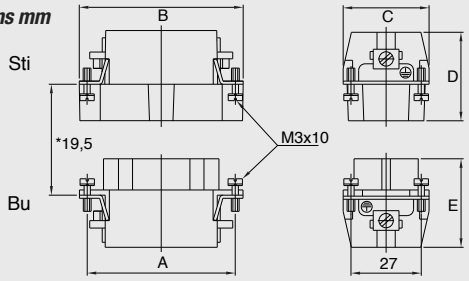
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* / Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HE.6.Sti.S | 1-1103634-1 | |
| | HE.6.Bu.S | | 1-1103635-1 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HE.6.Sti.SC | 7-1103634-1 | |
| | HE.6.Bu.SC | | 7-1103635-1 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HE.6.Sti.C | 2-1103634-3 | |
| | HE.6.Bu.C | | 2-1103635-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **44** | **52** | **33** | **34** | **35** |

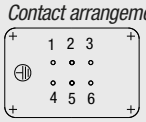
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

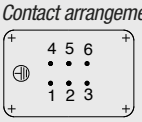



*Abstand für sichere Kontaktgabe max. 21 mm

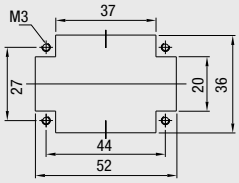
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HEE.10 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 3*

**Crimpanschluss für gedrehte HE Crimpkontakte**

***Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**10 +** ⏚

**500 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HEE.10.Sti.C<br>HEE.10.Sti.C.FS* | 0-1102918-1<br>0-1102918-2 | |
| Buchseneinsatz/*Female insert* | HEE.10.Bu.C<br>HEE.10.Bu.C.FS* | | 0-1102919-1<br>0-1102919-2 |

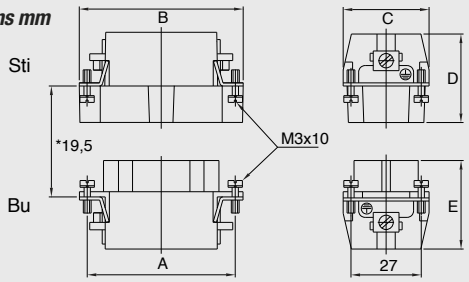
Crimpanschluss/*Crimp terminal*

*Kunststoff ist I2F1 qualifiziert nach NF-F 16-101, 102
*Plastic is qualified I2F1 according NF-F 16-101, 102*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **44** | **51** | **33** | **34** | **37** |

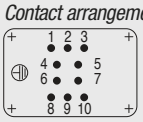
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

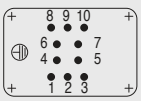



*Abstand für sichere Kontaktgabe max. 21 mm

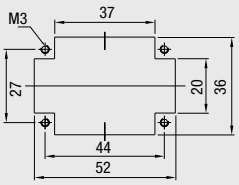
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



## HVT.8 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 3*

**Crimpanschluss für gedrehte HVT Crimpkontakte**

***Crimp terminal for screw machined HVT crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**8 +** ⏚

**400 V/16 A**

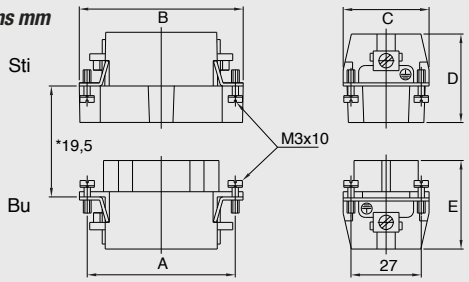
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HVT.8.Sti.C | 2-1104000-3 | |
| Buchseneinsatz/*Female insert* | HVT.8.Bu.C | | 2-1104002-3 |

Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **44** | **51** | **33** | **35** | **40** |

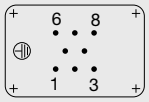
Passende Crimpkontakte siehe Seite 38, Passende Crimpwerkzeuge siehe Seite 38
*Suitable Crimp contacts see page 38, Suitable Crimping tools see page 38*

**Maßbild mm**
***Dimensions mm***

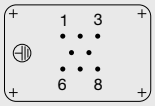



*Abstand für sichere Kontaktgabe max. 21 mm

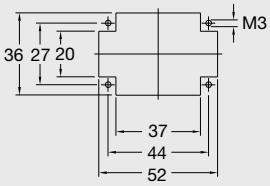
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HD.16 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 3*

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD.M crimp contacts***

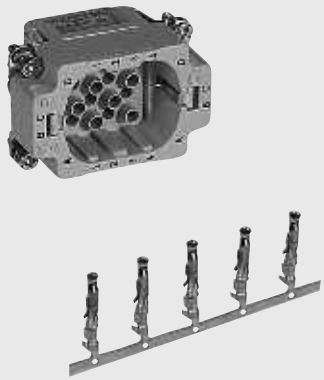
**Kontaktzahlen**
***No. of contacts***

**16 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.16.Sti.C | 2-1103006-3 | |
| Buchseneinsatz/*Female insert* | HD.16.Bu.C | | 2-1103007-3 |

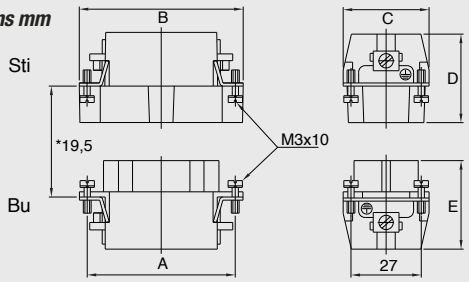
Crimpanschluss/*Crimp terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **44** | **51** | **33** | **35** | **35** |

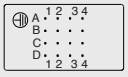
Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***

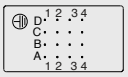



*Abstand für sichere Kontaktgabe max. 21 mm

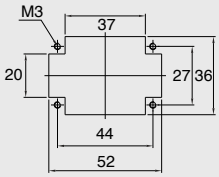
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



## HN.2D.24 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 3*

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**24 +** ⏚

**250 V/10 A**

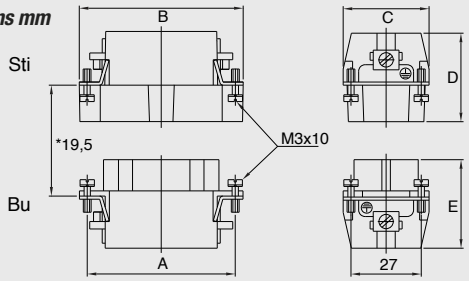
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HN.2D.24.Sti.C | 2-1103200-3 | |
| Buchseneinsatz/*Female insert* | HN.2D.24.Bu.C | | 2-1103202-3 |

Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **44** | **55** | **34** | **36,5** | **37** |

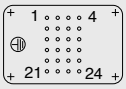
Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

**Maßbild mm**
***Dimensions mm***

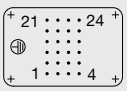



*Abstand für sichere Kontaktgabe max. 21 mm

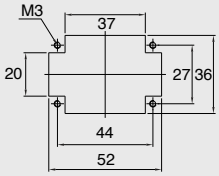
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HSK 4+2 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 3***

**Schraubanschluss**

***Screw terminal***

**Kontaktzahlen**
***No. of contacts***

**4 + 2 +** ⏚

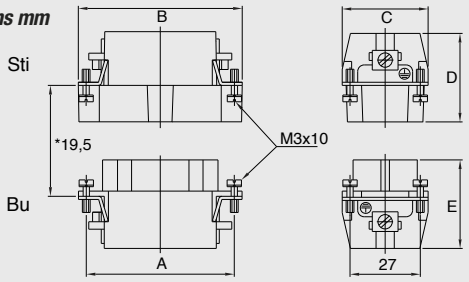
**500V/40A + 400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HSK.4+2.Bu.S | | 0-1103084-1 |
| Buchseneinsatz/*Female insert* | HSK.4+2.Sti.S | 0-1103085-1 | |

Schraubanschluss/*Screw termination*

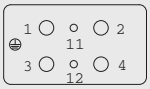
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **44** | **55** | **34** | **36,5** | **37** |

**Maßbild mm**
***Dimensions mm***

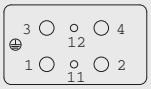



*Abstand für sichere Kontaktgabe max. 21 mm

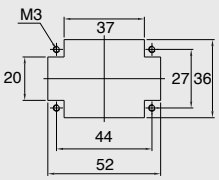
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*

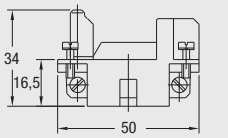
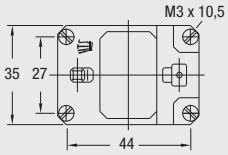
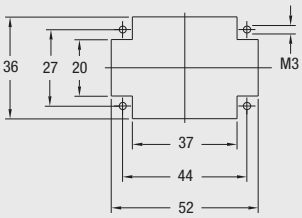
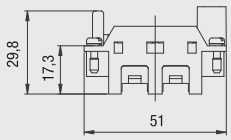
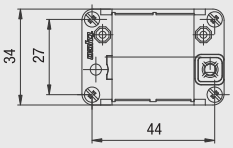
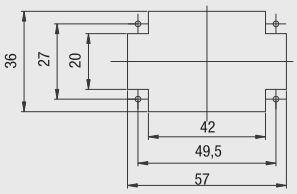



Montageausschnitt
*Panel cut-out*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 3*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame*<br> <br>Für Modul MDL Seite 194–203<br>*For module MDL page 194–203*<br>  <br><br>  <br><br>Montageausschnitt/*Panel cut-out*<br>  <br> | MDL2-GR.O/U-3 | 0-1108784-1 | 0-1108784-1 |
| Halterahmen/*Fixing frame*<br> <br>Für Modul HVS Seite 204–212<br>*For module HVS page 204–212*<br>  <br><br>  <br><br>Montageausschnitt/*Panel cut-out*<br>  <br> | HVS-R.O 1-2<br>HVS-R.U 1-2 | 0-1103250-7 | 0-1103250-8 |



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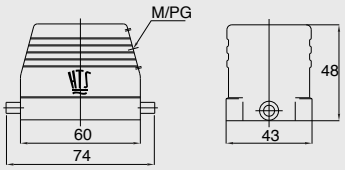
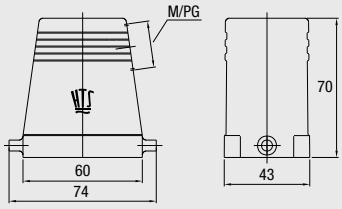
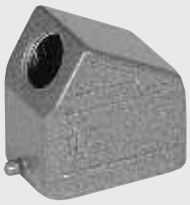
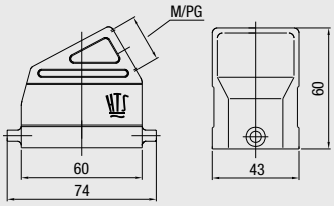
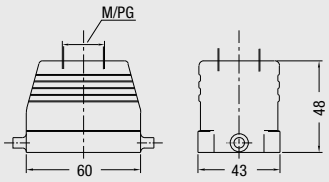
## HB.6, HB-K.6, HD.16, HD-K.16 Gehäuse/*Housings* — Baugröße/*Size 3*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | | 16 | HB.6.STS.1.16.G | 1-1102240-7 |
| | M16 | | HB.6.STS.1.M16.G | 0-1106419-8 |
| | M20 | | HB.6.STS.1.M20.G | 0-1106419-7 |
| | M25 | | HB.6.STS.1.M25.G | 0-1106419-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 13 | HB-K.6.STS.1.13.G | 0-1108573-5 |
| | | 16 | HB-K.6.STS.1.16.G | 2-1102240-7 |
| | M25 | | HB-K.6.STS.1.M25.G | 0-1106419-4 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 21 | HD.16.STS.1.21.G | 1-1102461-7 |
| | M25 | | HD.16.STS.1.M25.G | 0-1102769-1 |
| | M32 | | HD.16.STS.1.M32.G | 0-1106423-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.16.STS.1.21.G | 2-1102461-7 |
| | M32 | | HD-K.16.STS.1.M32.G | 0-1106423-4 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|    | | 16 | HB-KF.6.STS.1.16.G | 1-1102205-7 |
| | M25 | | HB-KF.6.STS.1.M25.G | 0-1106420-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-KF/K.6.STS.1.16.G | 2-1102205-7 |
| | M25 | | HB-KF/K.6.STS.1.M25.G | 0-1102899-1 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|   | | 13 | HB.6.STO.1.13.G | 0-1102064-1 |
| | | 16 | HB.6.STO.1.16.G | 1-1102243-7 |
| | M25 | | HB.6.STO.1.M25.G | 0-1106419-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.6.STO.1.16.G | 2-1102243-7 |
| | M20 | | HB-K.6.STO.1.M20.G | 0-1106423-9 |
| | M25 | | HB-K.6.STO.1.M25.G | 0-1106419-3 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

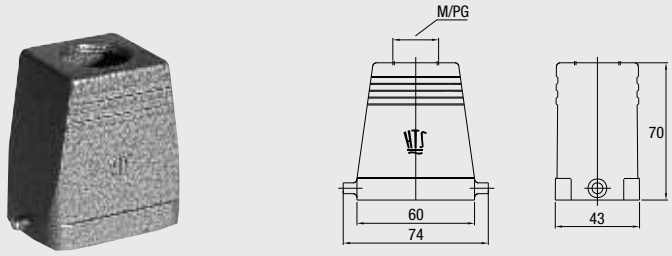
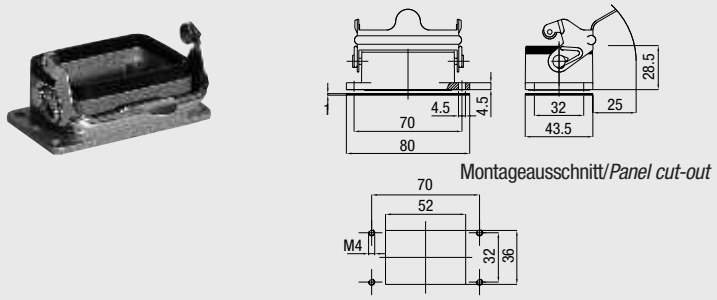
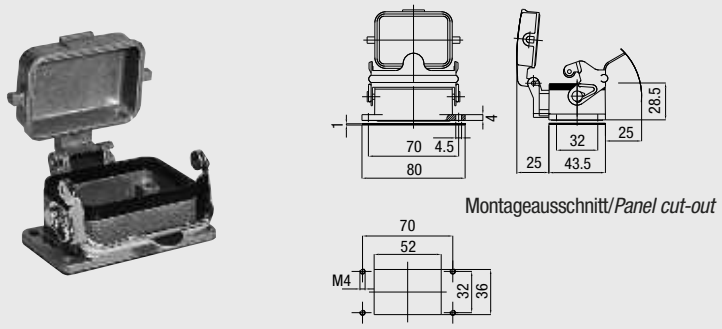
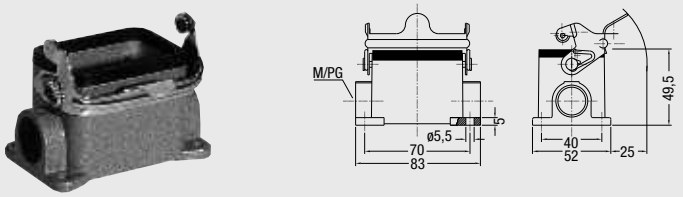
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.6, HB-K.6, HD.16, HD-K.16 Gehäuse/*Housings* — Baugröße/*Size 3*

**Pulverbeschichtet, silbergrau/K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey/K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|  | | 29 | HD.16.STO.1.29.Z | 1-1102469-7 |
| | | 21 | HD.16.STO.1.21.G | 1-1102467-7 |
| | M25 | | HD.16.STO.1.M25.G | 1-1106423-1 |
| | M32 | | HD.16.STO.1.M32.G | 0-1106423-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.16.STO.1.21.G | 2-1102467-7 |
| | M32 | | HD-K.16.STO.1.M32.G | 0-1106423-3 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.6.AG-LB | 1-1102244-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.6.AG-LB | 2-1102244-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.6.AGD-LB | 1-1102246-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.6.AGD-LB | 2-1102246-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|  | | 16 | HB.6.SG-LB.1.16.Z | 1-1102249-2 |
| | | 2x16 | HB.6.SG-LB.2.16.Z | 1-1102251-2 |
| | M25 | | HB.6.SG-LB.1.M25.Z | 0-1103062-1 |
| | 2xM25 | | HB.6.SG-LB.2.M25.Z | 0-1106418-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.6.SG-LB.1.16.Z | 2-1102249-2 |
| | | 2x16 | HB-K.6.SG-LB.2.16.Z | 2-1102251-2 |
| | 2xM25 | | HB-K.6.SG-LB.2.M25.Z | 0-1106418-4 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***



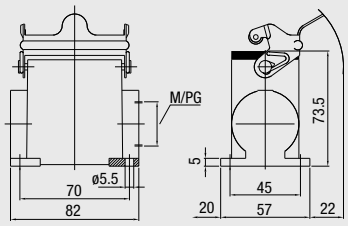
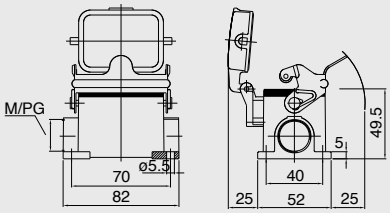
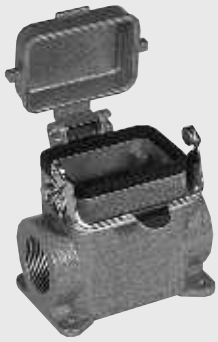
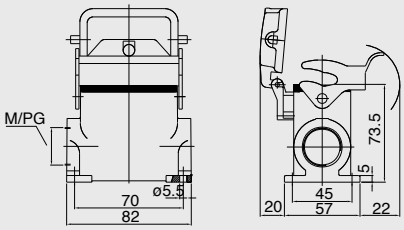
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.6, HB-K.6, HD.16, HD-K.16 Gehäuse/*Housings* — Baugröße/*Size 3*

**Pulverbeschichtet, silbergrau/K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey/K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|   | 2xM32 | 21<br>2x21 | HD.16.SG-LB.1.21.Z<br>HD.16.SG-LB.2.21.Z<br>HD.16.SG-LB.2.M32.Z | 1-1102472-2<br>1-1102474-2<br>0-1106422-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | 21<br>2x21 | HD-K.16.SG-LB.1.21.Z<br>HD-K.16.SG-LB.2.21.Z<br>HD-K.16.SG-LB.2.M32.Z | 2-1102472-2<br>2-1102474-2<br>0-1106422-4 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | M16<br>M20<br>2xM25 | 16<br>2x16 | HB.6.SGD-LB.1.16.Z<br>HB.6.SGD-LB.2.16.Z<br>HB.6.SGD-LB.1.M16.Z<br>HB.6.SGD-LB.1.M20.Z<br>HB.6.SGD-LB.2.M25.Z | 1-1102253-2<br>1-1102255-2<br>0-1102849-1<br>0-1102849-2<br>0-1106418-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM25 | 16<br>2x16 | HB-K.6.SGD-LB.1.16.Z<br>HB-K.6.SGD-LB.2.16.Z<br>HB-K.6.SGD-LB.2.M25.Z | 2-1102253-2<br>2-1102255-2<br>0-1106418-3 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|    | 2xM32 | 21<br>2x21 | HD.16.SGD-LB.1.21.Z<br>HD.16.SGD-LB.2.21.Z<br>HD.16.SGD-LB.2.M32.Z | 1-1102480-2<br>1-1102482-2<br>0-1106422-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | 21<br>2x21 | HD-K.16.SGD-LB.1.21.Z<br>HD-K.16.SGD-LB.2.21.Z<br>HD-K.16.SGD-LB.2.M32.Z | 2-1102480-2<br>2-1102482-2<br>0-1106422-3 |

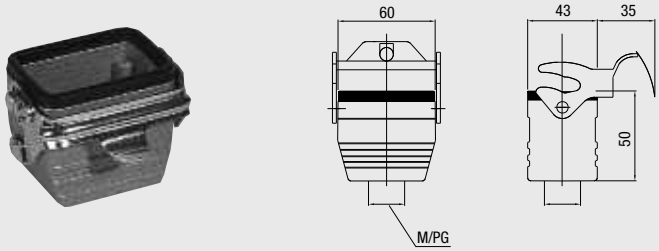
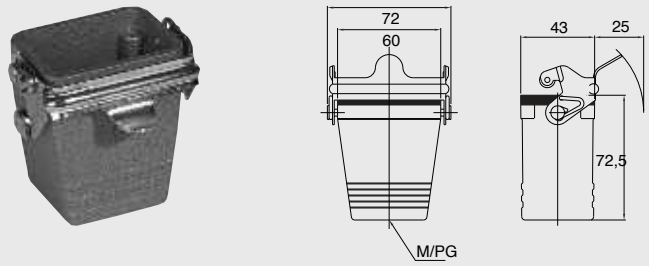
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB.6, HB-K.6, HD.16, HD-K.16 Gehäuse/*Housings* — Baugröße/*Size 3*

**Pulverbeschichtet, silbergrau/K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey/K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Kupplungsgehäuse:** Kabeleingang unten, Standard Bauform<br>***Cable-to-cable hood:*** *Bottom entry, Standard construction* | | | | |
|  | M25 | 16 | HB.6.KDO-LB.1.16.G<br>HB.6.KDO-LB.1.M25.G | 1-1102258-2<br>0-1106417-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K.6.KDO-LB.1.16.G<br>HB-K.6.KDO-LB.1.M25.G | 2-1102258-2<br>0-1106417-2 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | | | | |
|  | M32 | 13<br>21 | HB.6.KDO-LB.1.13.G<br>HD.16.KDO-LB.1.21.G<br>HD.16.KDO-LB.1.M32.G | 0-1102258-1<br>1-1102489-2<br>0-1106421-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HD-K.16.KDO-LB.1.21.G<br>HD-K.16.KDO-LB.1.M32.G | 2-1102489-2<br>0-1106421-2 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



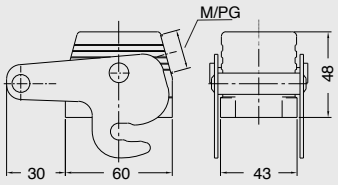
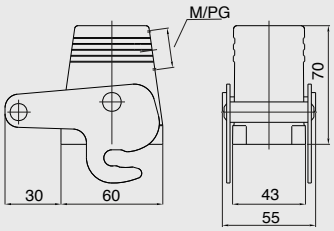
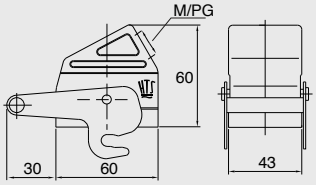
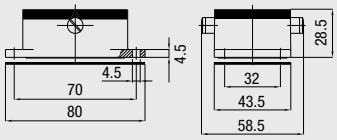
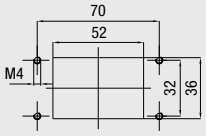
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB-Z.6, HB-K/Z.6, HD-Z.16, HD-K/Z.16 Gehäuse/*Housings* — Baugröße/*Size 3*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M25 | 16 | HB-Z.6.STS-ZB.1.16.G<br>HB-Z.6.STS-ZB.1.M25.G | 1-1102240-3<br>0-1106419-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K/Z.6.STS-ZB.1.16.G<br>HB-K/Z.6.STS-ZB.1.M25.G | 2-1102240-3<br>0-1106419-5 |
| **Steckergehäuse:** Kabeleingang seitlich,Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | M32 | 21 | HD-Z.16.STS-ZB.1.21.G<br>HD-Z.16.STS-ZB.1.M32.G | 1-1102461-3<br>0-1106423-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K/Z.16.STS-ZB.1.21.G | 2-1102461-3 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M25 | 16 | HB-KF-Z.6.STS-ZB.1.16.G<br>HB-KF-Z.6.STS-ZB.1.M25.G | 1-1102205-3<br>0-1106420-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-KF/K-Z.6.STS-ZB.1.16.G<br>HB-KF/K-Z.6.STS-ZB.1.M25.G | 2-1102205-3<br>0-1106420-2 |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | | |
|   | | | HB-Z.6.AG-ZVGR | 1-1102244-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
|   | | | HB-K/Z.6.AG-ZVGR | 2-1102244-8 |

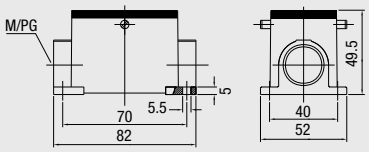
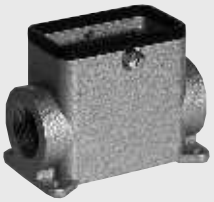
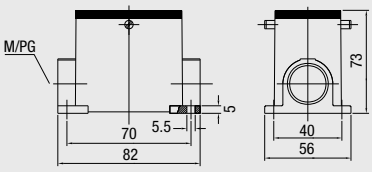
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB-Z.6, HB-K/Z.6, HD-Z.16, HD-K/Z.16 Gehäuse/*Housings* — Baugröße/*Size 3*

**Pulverbeschichtet, silbergrau/K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey/K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| **Bezeichnung** *Description* | Metr. | PG | **Bestelltext** *Designation* | **Bestell-Nr.** *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | M25 | 16 | HB-Z.6.SG-ZVGR.1.16.Z | 1-1102249-8 |
| | | 2x16 | HB-Z.6.SG-ZVGR.2.16.Z | 1-1102251-8 |
| | | | HB-Z.6.SG-ZVGR.2.M25.Z | 0-1106418-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K/Z.6.SG-ZVGR.1.16.Z | 2-1102249-8 |
| | | 2x16 | HB-K/Z.6.SG-ZVGR.2.16.Z | 2-1102251-8 |
| | 2xM25 | | HB-K/Z.6.SG-ZVGR.2.M25.Z | 0-1106418-5 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|    | | 21 | HD-Z.16.SG-ZVGR.1.21.Z | 1-1102472-8 |
| | | 2x21 | HD-Z.16.SG-ZVGR.2.21.Z | 1-1102474-8 |
| | 2xM32 | | HD-Z.16.SG-ZVGR.2.M32.Z | 0-1106422-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K/Z.16.SG-ZVGR.1.21.Z | 2-1102472-8 |
| | | 2x21 | HD-K/Z.16.SG-ZVGR.2.21.Z | 2-1102474-8 |
| | 2xM32 | | HD-K/Z.16.SG-ZVGR.2.M32.Z | 1-1106469-1 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

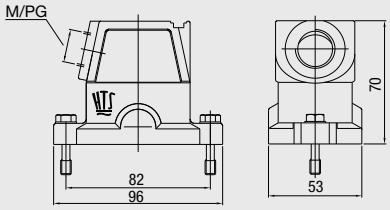
## HIP.6/16, HIP-K.6/16, EMV-K.6/16 Gehäuse/*Housings* — Baugröße/*Size 3*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

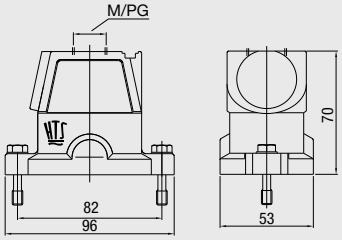
***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

## Schraubverriegelung am Oberteil/*Screw lock on hood* — IP 68

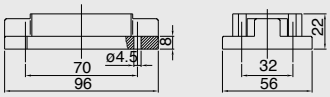
**Steckergehäuse:** Kabeleingang seitlich
***Hood:*** *Side entry*



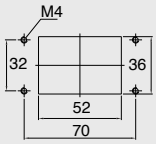

**Steckergehäuse:** Kabeleingang oben
***Hood:*** *Top entry*



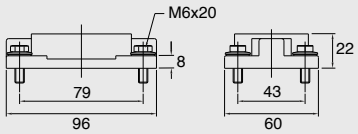

**Anbaugehäuse:** Kabeleingang unten
***Surface mounted housing:*** *Bottom entry*



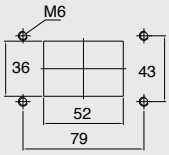

Montageausschnitt/*Panel cut-out*




**Anbaugehäuse:** Kabeleingang unten
***Surface mounted housing:*** *Bottom entry*




Montageausschnitt/*Panel cut-out*




| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| | | | **HIP** | |
| | | 16 | HIP.6/16.STS.1.16.G | 1-1102631-5 |
| | M25 | | HIP.6/16.STS.1.M25.G | 0-1106425-2 |
| | | | **HIP-K** | |
| | | 16 | HIP-K.6/16.STS.1.16.G | 2-1102631-5 |
| | | 21 | HIP-K.6/16.STS.1.21.G | 2-1102633-5 |
| | M25 | | HIP-K.6/16.STS.1.M25.G | 0-1106425-4 |
| | | | **EMV-K** | |
| | | 16 | EMV-K.6/16.STS.1.16.G | 4-1102704-5 |
| | M25 | | EMV-K.6/16.STS.1.M25.G | 0-1106416-4 |
| | | | **HIP** | |
| | | 16 | HIP.6/16.STO.1.16.G | 1-1102635-5 |
| | M32 | | HIP.6/16.STO.1.M32.G | 0-1106425-1 |
| | | | **HIP-K** | |
| | | 16 | HIP-K.6/16.STO.1.16.G | 2-1102635-5 |
| | | 21 | HIP-K.6/16.STO.1.21.G | 2-1102637-5 |
| | M25 | | HIP-K.6/16.STO.1.M25.G | 0-1106425-6 |
| | M32 | | HIP-K.6/16.STO.1.M32.G | 0-1106425-3 |
| | | | **EMV-K** | |
| | | 13 | EMV-K.6/16.STO.1.13.G | 0-1108719-1 |
| | | 16 | EMV-K.6/16.STO.1.16.G | 4-1102706-5 |
| | | 21 | EMV-K.6/16.STO.1.21.G | 4-1102707-5 |
| | M32 | | EMV-K.6/16.STO.1.M32.G | 0-1106416-3 |
| | | | **HIP** | |
| | | | HIP.6/16.AG | 1-1102638-5 |
| | | | **HIP-K** | |
| | | | HIP-K.6/16.AG | 2-1102638-5 |
| | | | **EMV-K** | |
| | | | EMV-K.6/16.AG | 4-1102710-5 |
| | | | **HIP** | |
| | | | HIP.6/16.AG.M6 | 1-1102606-5 |
| | | | **HIP-K** | |
| | | | HIP-K.6/16.AG.M6 | 2-1102606-5 |
| | | | **EMV-K** | |
| | | | EMV-K.6/16.AG.M6 | 4-1102712-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

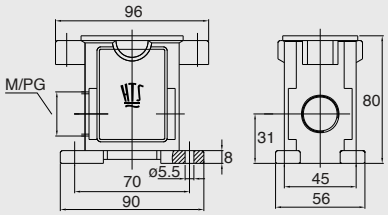
## HIP.6/16, HIP-K.6/16, EMV-K.6/16 Gehäuse/*Housings* — Baugröße/*Size 3*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

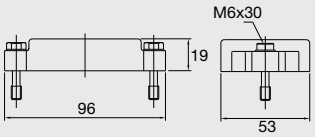
## Schraubverriegelung am Oberteil/*Screw lock on hood* — IP 68

**Sockelgehäuse:** Kabeleingang seitlich
***Surface mounted housing:*** *Side entry*




| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| | | | **HIP** | |
| | | 16 | HIP.6/16.SG.1.16.G | 1-1102604-5 |
| | | 2x16 | HIP.6/16.SG.2.16.G | 1-1102605-5 |
| | 2xM32 | | HIP.6/16.SG.2.M32.G | 0-1106424-1 |
| | | | **HIP-K** | |
| | | 16 | HIP-K.6/16.SG.1.16.G | 2-1102604-5 |
| | | 2x16 | HIP-K.6/16.SG.2.16.G | 2-1102605-5 |
| | 2xM25 | | HIP-K.6/16.SG.2.M25.G | 0-1102942-1 |
| | 2xM32 | | HIP-K.6/16.SG.2.M32.G | 0-1106424-2 |
| | | | **EMV-K** | |
| | | 16 | EMV-K.6/16.SG.1.16.G | 5-1102708-5 |
| | | 2x16 | EMV-K.6/16.SG.2.16.G | 5-1102709-5 |
| | 2xM25 | | EMV-K.6/16.SG.2.M25.G | 0-1106413-3 |
| | 2xM32 | | EMV-K.6/16.SG.2.M32.G | 0-1106415-2 |

**Schutzkappe für Gehäuse-Unterteile**
***Protective covers for housings***




| | | | | |
|---|---|---|---|---|
| | | | **HIP** | |
| | | | HIP/EMV.6/16.SKB | 3-1106201-5 |
| | | | **HIP-K** | |
| | | | HIP-K/EMV-K.6/16.SKB | 4-1106201-5 |
| | | | **EMV-K** | |
| | | | HIP-K/EMV-K.6/16.SKB | 4-1106201-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HE.10 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 4***

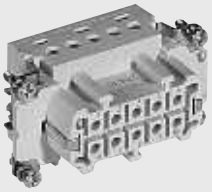
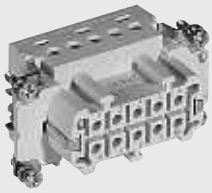
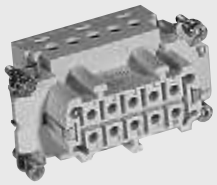
**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**10 +** ⏚

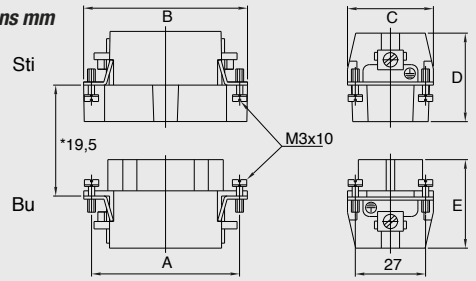
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HE.10.Sti.S | 1-1103636-1 | |
|  | HE.10.Bu.S | | 1-1103637-1 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HE.10.Sti.SC | 7-1103636-1 | |
|  | HE.10.Bu.SC | | 7-1103637-1 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HE.10.Sti.C | 2-1103636-3 | |
|  | HE.10.Bu.C | | 2-1103637-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **57** | **63** | **33** | **34** | **35** |

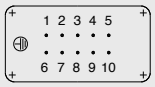
**Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37**
***Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37***

**Maßbild mm**
***Dimensions mm***

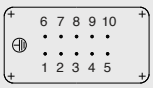



*Abstand für sichere Kontaktgabe max. 21 mm

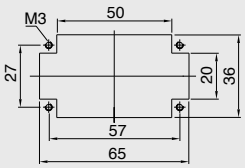
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



## HEE.18 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 4***

**Crimpanschluss für gedrehte HE Crimpkontakte**

***Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**18 +** ⏚

**500 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HEE.18.Sti.C<br>HEE.18.Sti.C.FS* | 0-1102897-1<br>0-1102897-2 | |
| Buchseneinsatz/*Female insert* | HEE.18.Bu.C<br>HEE.18.Bu.C.FS* | | 0-1102898-1<br>0-1102898-2 |

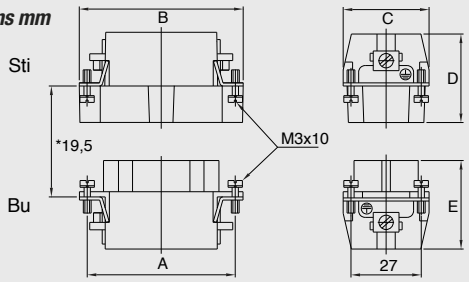
Crimpanschluss/*Crimp terminal*

*Kunststoff ist I2F1 qualifiziert nach NF-F 16-101, 102
*Plastic is qualified I2F1 according NF-F 16-101, 102*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **57** | **63** | **33** | **34** | **37** |

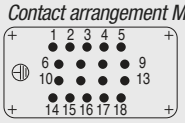
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

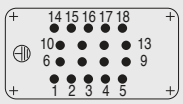



*Abstand für sichere Kontaktgabe max. 21 mm

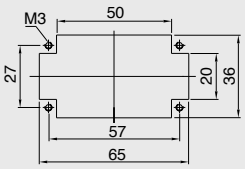
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HVT.14 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 4*

**Crimpanschluss für gedrehte HVT Crimpkontakte**

***Crimp terminal for screw machined HVT crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**14 +** ⏚

**400 V/16 A**

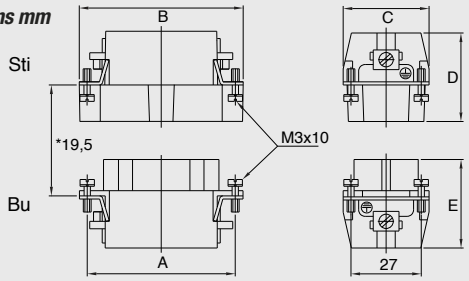
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HVT.14.Sti.C | 2-1104004-3 | |
| Buchseneinsatz/*Female insert* | HVT.14.Bu.C | | 2-1104006-3 |

Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **57** | **63** | **33** | **35** | **40** |

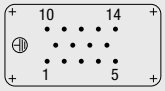
**Passende Crimpkontakte siehe Seite 38, Passende Crimpwerkzeuge siehe Seite 38**
***Suitable Crimp contacts see page 38, Suitable Crimping tools see page 38***

**Maßbild mm**
***Dimensions mm***

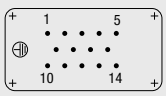



*Abstand für sichere Kontaktgabe max. 21 mm

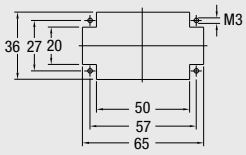
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HD.24 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 4*

**Crimpanschluss für gestanzte HD-M Crimpkontakte**

***Crimp terminal for stamped HD-M crimp contacts***

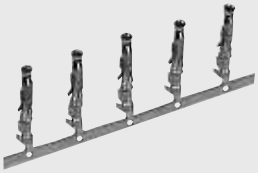
**Kontaktzahlen**
***No. of contacts***

**24 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.24.Sti.C | 2-1103008-3 | |
| Buchseneinsatz/*Female insert* | HD.24.BU.C | | 2-1103009-3 |

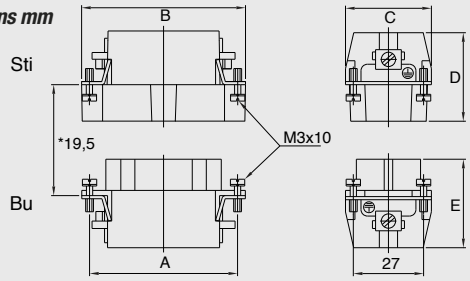
Crimpanschluss/*Crimp terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **57** | **64** | **33** | **35** | **35** |

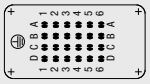
Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***

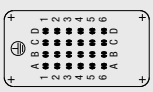



*Abstand für sichere Kontaktgabe max. 21 mm

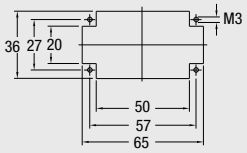
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*



Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*



Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.2D.42; HMX8/24 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 4***

**Crimpanschluss für gedrehte HN.D/HE Crimpkontakte**

***Crimp terminal for screw machined HN.D/HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

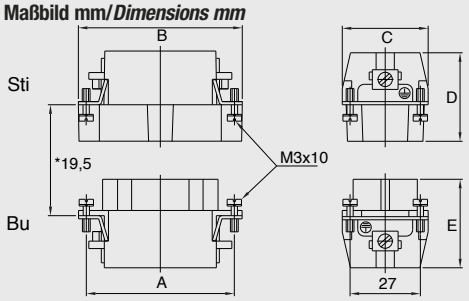
**42; 8/24 +** ⏚

**250 V/10 A; 400V/16A + 250V/10A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HN.2D.42.Sti.C | 2-1103204-3 | |
| Buchseneinsatz/*Female insert* | HN.2D.42.Bu.C | | 2-1103206-3 |
| Crimpanschluss/*Crimp terminal* | | | |
| Passende Crimpakontakte siehe Seite 34 *Suitable Crimp contacts see page 34* | | | |
| | HMX.8/24.Sti.C | 0-1103089-1 | |
| | HMX.8/24.Bu.C | | 0-1103090-1 |
| Passende Crimpakontakte Power siehe Seite 37, passende Crimpakontakte Signal siehe Seite 34 *Suitable Crimp contacts power see page 37, suitable Crimp contacts signal see page 34* | | | |

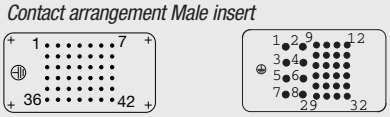
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **57** | **63** | **34** | **35,5** | **37** |

**Maßbild mm/*Dimensions mm***

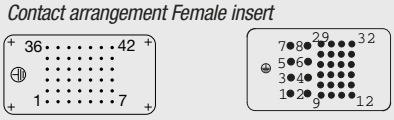



*Abstand für sichere Kontaktgabe max. 21 mm

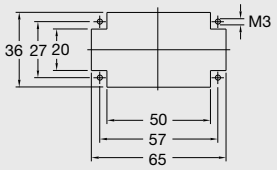
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*

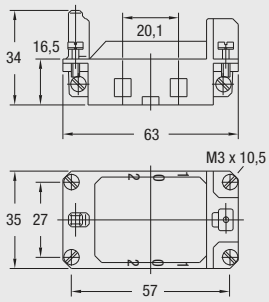


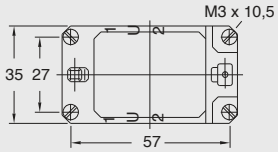

Montageausschnitt
*Panel cut-out*



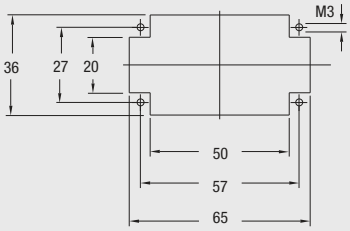
## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 4*

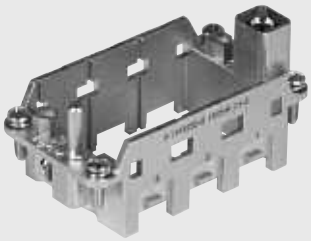
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | MDL2-GR.O-4/B.1-2 | 0-1108783-1 | |
| Für Modul MDL Seite 194–203<br>*For module MDL page 194–203* | MDL2-GR.U-4/B.1-2 | | 0-1108783-2 |
| Halterahmen/*Fixing frame* | HVS-R.O 1-3<br>HVS-R.U 1-3 | 0-1103250-5 | 0-1103250-6 |
| Für Modul HVS Seite 204–212<br>*For module HVS page 204–212* | | | |

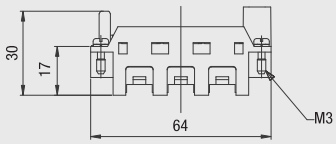


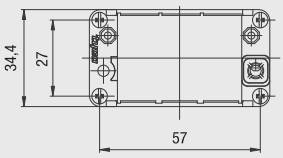




Montageausschnitt/*Panel cut-out*

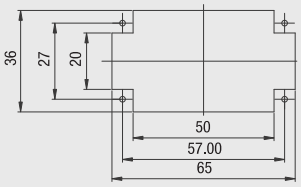





Montageausschnitt/*Panel cut-out*



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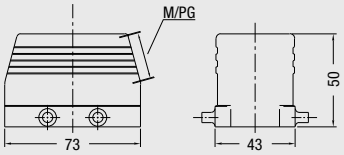
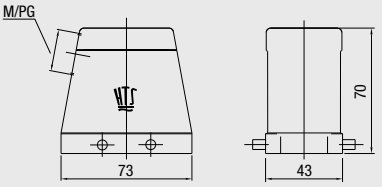
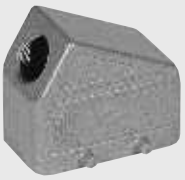
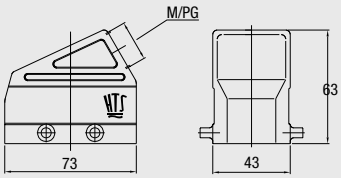
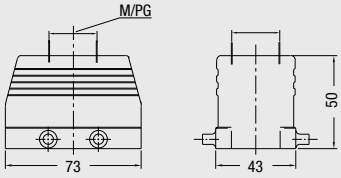
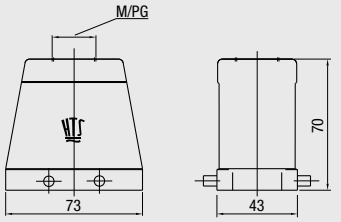
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.10, HB-K.10, HD.24, HD-K.24 Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | | 16 | HB.10.STS.1.16.G | 1-1102261-6 |
| | | 21 | HB.10.STS.1.21.G | 1-1102264-6 |
| | M20 | | HB.10.STS.1.M20.G | 2-1106430-4 |
| | M25 | | HB.10.STS.1.M25.G | 0-1106430-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.STS.1.16.G | 2-1102261-6 |
| | | 21 | HB-K.10.STS.1.21.G | 2-1102264-6 |
| | M25 | | HB-K.10.STS.1.M25.G | 1-1106430-0 |
| **Steckergehäuse:** Kabeleingang seitlich,Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 21 | HD.24.STS.1.21.G | 1-1102496-6 |
| | | 29 | HD.24.STS.1.29.G | 1-1102499-6 |
| | M32 | | HD.24.STS.1.M32.G | 0-1106434-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.24.STS.1.21.G | 2-1102496-6 |
| | | 29 | HD-K.24.STS.1.29.G | 2-1102499-6 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|    | | 16 | HB-KF.10.STS.1.16.G | 1-1102211-6 |
| | | 21 | HB-KF.10.STS.1.21.G | 1-1102214-6 |
| | M25 | | HB-KF.10.STS.1.M25.G | 0-1106431-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-KF/K.10.STS.1.16.G | 2-1102211-6 |
| | | 21 | HB-KF/K.10.STS.1.21.G | 2-1102214-6 |
| | M25 | | HB-KF/K.10.STS.1.M25.G | 0-1106431-5 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|   | | 16 | HB.10.STO.1.16.G | 1-1102267-6 |
| | | 21 | HB.10.STO.1.21.G | 1-1102270-6 |
| | M25 | | HB.10.STO.1.M25.G | 0-1106430-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.STO.1.16.G | 2-1102267-6 |
| | | 21 | HB-K.10.STO.1.21.G | 2-1102270-6 |
| | M25 | | HB-K.10.STO.1.M25.G | 0-1106430-7 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|   | | 21 | HD.24.STO.1.21.G | 1-1102502-6 |
| | | 29 | HD.24.STO.1.29.G | 1-1102505-6 |
| | M32 | | HD.24.STO.1.M32.G | 0-1106434-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.24.STO.1.21.G | 2-1102502-6 |
| | | 29 | HD-K.24.STO.1.29.G | 2-1102505-6 |
| | M32 | | HD-K.24.STO.1.M32.G | 0-1106434-7 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

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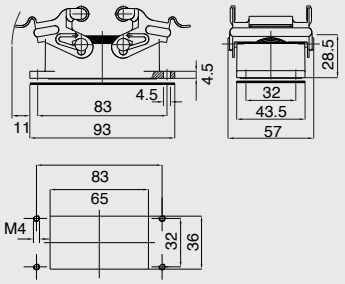
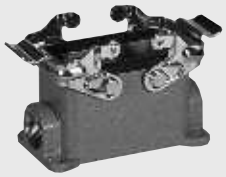
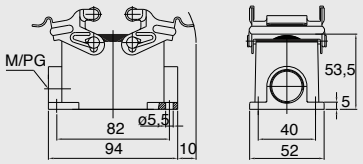
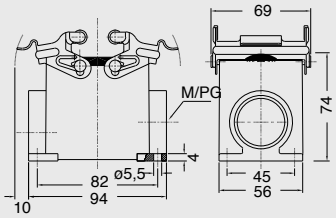
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.10.AG-VS | 1-1102271-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.10.AG-VS | 2-1102271-1 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | | 16 | HB.10.SG-VS.1.16.Z | 1-1102274-1 |
| | | 2x16 | HB.10.SG-VS.2.16.Z | 1-1102276-1 |
| | M25 | | HB.10.SG-VS.1.M25.Z | 0-1103059-1 |
| | 2xM25 | | HB.10.SG-VS.2.M25.Z | 0-1106429-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.SG-VS.1.16.Z | 2-1102274-1 |
| | | 2x16 | HB-K.10.SG-VS 2.16.Z | 2-1102276-1 |
| | 2xM25 | | HB-K.10.SG-VS.2.M25.Z | 0-1106429-8 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|  | | 21 | HD.24.SG-VS.1.21.Z | 1-1102507-1 |
| | | 29 | HD.24.SG-VS.1.29.Z | 1-1102511-1 |
| | | 2x21 | HD.24.SG-VS.2.21.Z | 1-1102509-1 |
| | | 2x29 | HD.24.SG-VS.2.29.Z | 1-1102513-1 |
| | 2xM32 | | HD.24.SG-VS.2.M32.Z | 0-1106433-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.24.SG-VS.1.21.Z | 2-1102507-1 |
| | | 29 | HD-K.24.SG-VS.1.29.Z | 2-1102511-1 |
| | | 2x21 | HD-K.24.SG-VS.2.21.Z | 2-1102509-1 |
| | 2xM32 | | HD-K.24.SG-VS.2.M32.Z | 0-1106433-8 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



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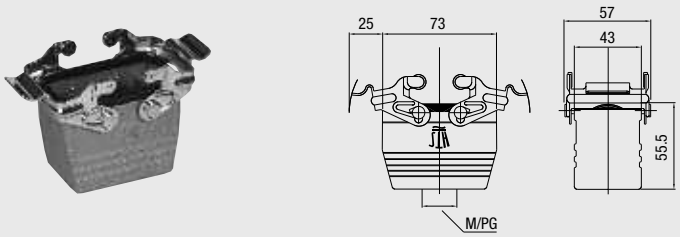
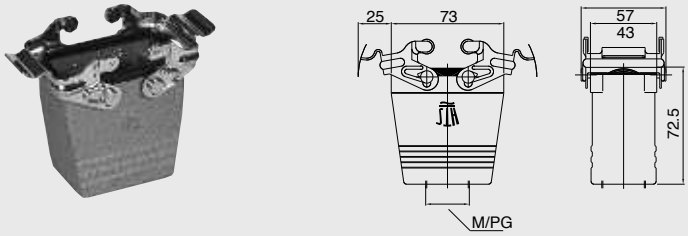
## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Kupplungsgehäuse:** Kabeleingang unten, Standard Bauform<br>***Cable-to-cable hood:*** *Bottom entry, Standard construction* | | | | |
|  | | 16 | HB.10.KDO-VS.1.16.G | 1-1102279-1 |
| | | 21 | HB.10.KDO-VS.1.21.G | 1-1102282-1 |
| | M25 | | HB.10.KDO-VS.1.M25.G | 0-1106428-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.KDO-VS.1.16.G | 2-1102279-1 |
| | M25 | | HB-K.10.KDO-VS.1.M25.G | 0-1106428-4 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | | | | |
|  | M32 | | HD.24.KDO-VS.1.M32.G | 0-1106432-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | | HD-K.24.KDO-VS.1.M32.G | 0-1106432-4 |

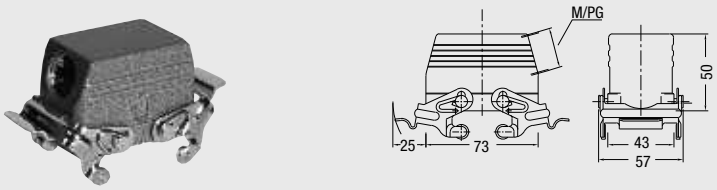
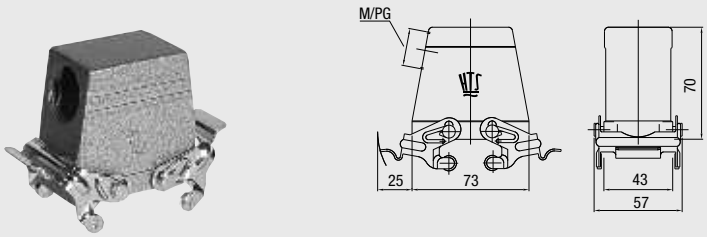
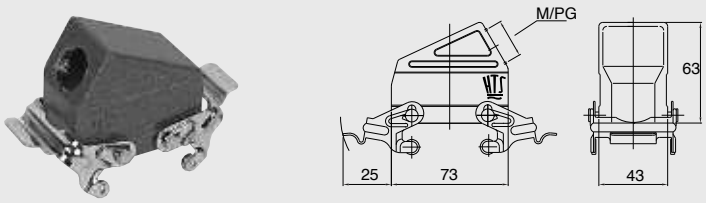
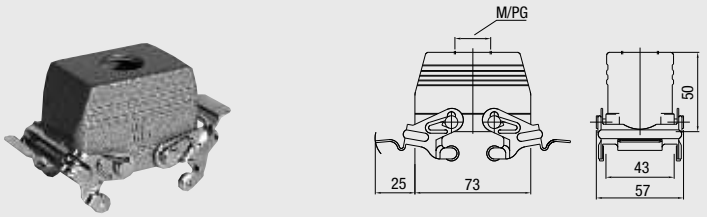
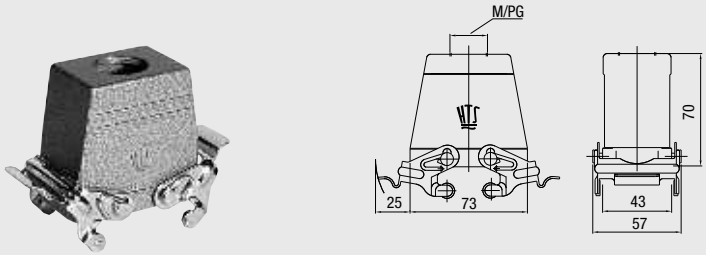
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip at hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|  | M25 | 16 | HB.10.STS-VS.1.16.G<br>HB.10.STS-VS.1.M25.G | 1-1102261-1<br>0-1106430-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K.10.STS-VS.1.16.G<br>HB-K.10.STS-VS.1.M25.G | 2-1102261-1<br>1-1106430-2 |
| **Steckergehäuse:** Kabeleingang seitlich,Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|  | M25<br>M32 | 21<br>29 | HD.24.STS-VS.1.21.G<br>HD.24.STS-VS.1.29.G<br>HD.24.STS-VS.1.M25.G<br>HD.24.STS-VS.1.M32.G | 1-1102496-1<br>1-1102499-1<br>1-1106434-5<br>0-1106434-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21<br>29 | HD-K.24.STS-VS.1.21.G<br>HD-K.24.STS-VS.1.29.G<br>HD-K.24.STS-VS.1.M32.G | 2-1102496-1<br>2-1102499-1<br>0-1106434-6 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|  | M25 | 16 | HB-KF.10.STS-VS.1.16.G<br>HB-KF.10.STS-VS.1.M25.G | 1-1102211-1<br>0-1106431-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-KF/K.10.STS-VS.1.16.G<br>HB-KF/K.10.STS-VS.1.M25.G | 2-1102211-1<br>0-1106431-7 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|  | M25 | 16 | HB.10.STO-VS.1.16.G<br>HB.10.STO-VS.1.M25.G | 1-1102267-1<br>0-1106430-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K.10.STO-VS.1.16.G<br>HB-K.10.STO-VS.1.M25.G | 2-1102267-1<br>0-1106430-9 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|  | M32 | 29 | HD.24.STO-VS.1.29.G<br>HD.24.STO-VS.1.M32.G | 1-1102505-1<br>0-1106434-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21<br>29 | HD-K.24.STO-VS.1.21.G<br>HD-K.24.STO-VS.1.29.G<br>HD-K.24.STO-VS.1.M32.G | 2-1102502-1<br>2-1102505-1<br>0-1106434-9 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



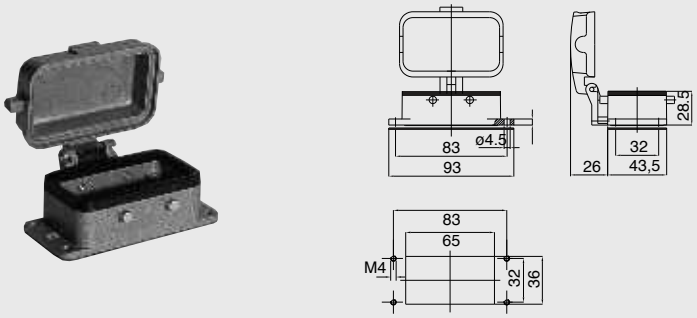
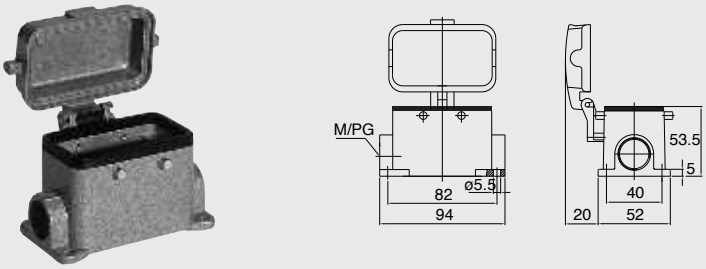
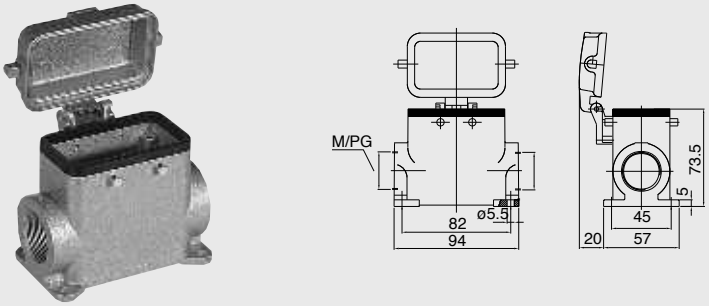
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip at hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.10.AGD | 1-1102283-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.10.AGD | 2-1102283-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|  | | 16 | HB.10.SGD.1.16.Z | 1-1102286-6 |
| | | 2x16 | HB.10.SGD.2.16.Z | 1-1102288-6 |
| | M25 | | HB.10.SGD.1.M25.Z | 0-1103059-2 |
| | 2xM25 | | HB.10.SGD.2.M25.Z | 0-1106429-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.SGD.1.16.Z | 2-1102286-6 |
| | 2xM25 | | HB-K.10.SGD.2.M25.Z | 0-1106429-5 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|  | | 2x21 | HD.24.SGD.2.21.Z | 1-1102523-6 |
| | 2xM32 | | HD.24.SGD.2.M32.Z | 0-1106433-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 2x29 | HD-K.24.SGD.2.29.Z | 2-1102527-6 |
| | 2xM32 | | HD-K.24.SGD.2.M32.Z | 0-1106433-5 |

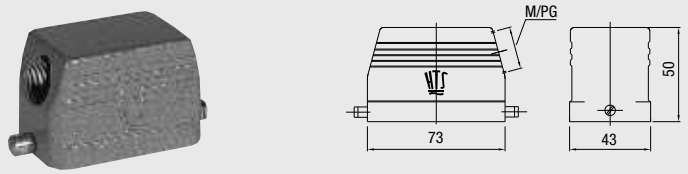
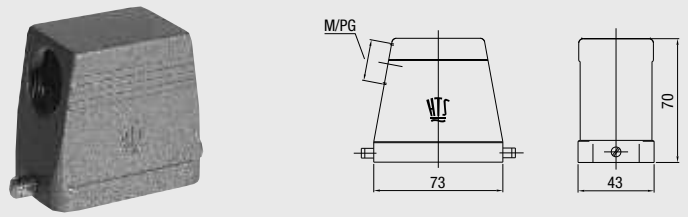
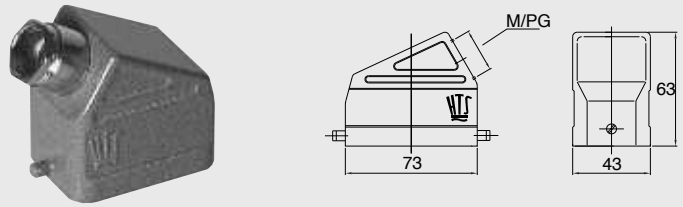
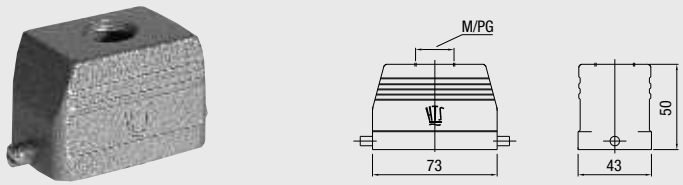
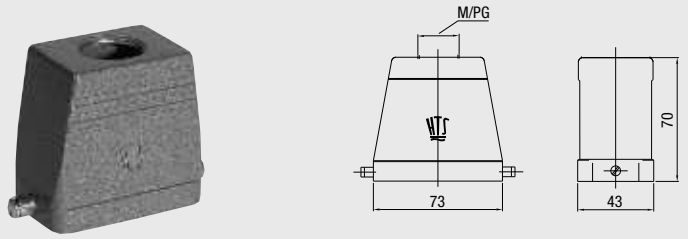
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|  | M25 | 16 | HB.10.STS-GR.1.16.G<br>HB.10.STS-GR.1.M25.G | 1-1102261-7<br>0-1106430-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K.10.STS-GR.1.16.G<br>HB-K.10.STS-GR.1.M25.G | 2-1102261-7<br>1-1106430-1 |
| **Steckergehäuse:** Kabeleingang seitlich,Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|  | M32 | 29<br>21 | HD.24.STS-GR.1.29.G<br>HD.24.STS-GR.1.21.G<br>HD.24.STS-GR.1.M32.G | 1-1102499-7<br>1-1102496-7<br>0-1106434-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HD-K.24.STS-GR.1.21.G<br>HD-K.24.STS-GR.1.M32.G | 2-1102496-7<br>1-1106434-1 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|  | M25 | 16 | HB-KF.10.STS-GR.1.16.G<br>HB-KF.10.STS-GR.1.M25.G | 1-1102211-7<br>0-1106431-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-KF/K.10.STS-GR.1.16.G<br>HB-KF/K.10.STS-GR.1.M25.G | 2-1102211-7<br>0-1106431-7 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|  | M25 | 16 | HB.10.STO-GR.1.16.G<br>HB.10.STO-GR.1.M25.G | 1-1102267-7<br>0-1106430-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K.10.STO-GR.1.16.G<br>HB-K.10.STO-GR.1.M25.G | 2-1102267-7<br>0-1106430-8 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|  | M32 | 21<br>29 | HD.24.STO-GR.1.21.G<br>HD.24.STO-GR.1.29.G<br>HD.24.STO-GR.1.M32.G | 1-1102502-7<br>1-1102505-7<br>0-1106434-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 29 | HD-K.24.STO-GR.1.29.G<br>HD-K.24.STO-GR.1.M32.G | 2-1102505-7<br>0-1106434-8 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



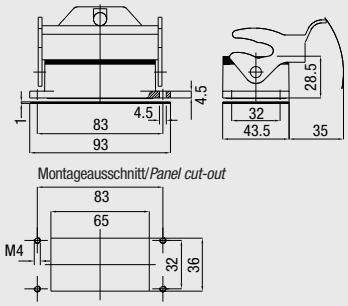
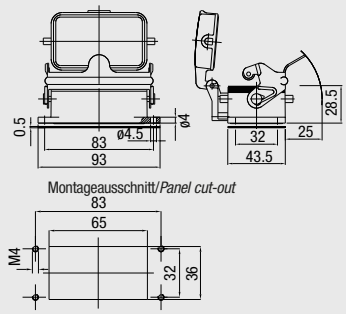
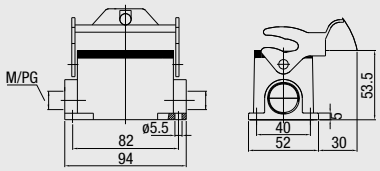
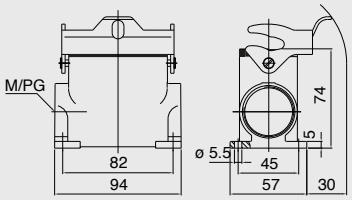
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|   | | | HB.10.AG-LB | 1-1102271-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.10.AG-LB | 2-1102271-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|   | | | HB.10.AGD-LB | 1-1102283-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.10.AGD-LB | 2-1102283-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | | 16 | HB.10.SG-LB.1.16.Z | 1-1102274-2 |
| | | 2x16 | HB.10.SG-LB.2.16.Z | 1-1102276-2 |
| | 2xM25 | | HB.10.SG-LB.2.M25.Z | 0-1106429-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.SG-LB.1.16.Z | 2-1102274-2 |
| | 2xM25 | | HB-K.10.SG-LB.2.M25.Z | 0-1106429-7 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|   | | 21 | HD.24.SG-LB.1.21.Z | 1-1102507-2 |
| | | 2x21 | HD.24.SG-LB.2.21.Z | 1-1102509-2 |
| | | 29 | HD.24.SG-LB.1.29.Z | 1-1102511-2 |
| | | 2x29 | HD.24.SG-LB.2.29.Z | 1-1102513-2 |
| | 2xM32 | | HD.24.SG-LB.2.M32.Z | 0-1106433-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | | HD-K.24.SG-LB.2.M32.Z | 0-1106433-7 |

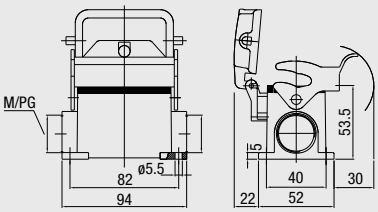
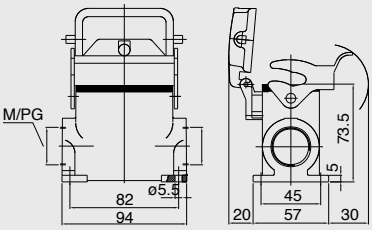
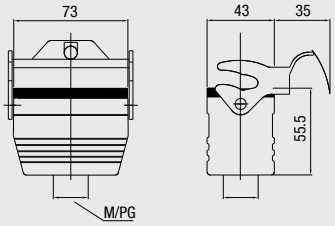
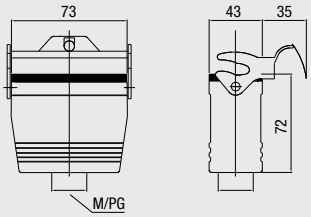
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB.10, HB-K.10, HD.24, HD-K.24, Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | M25 | 16 | HB.10.SGD-LB.1.16.Z | 1-1102286-2 |
| | | 2x16 | HB.10.SGD-LB.2.16.Z | 1-1102288-2 |
| | | | HB.10.SGD-LB.1.M25.Z | 0-1103059-3 |
| | 2xM25 | | HB.10.SGD-LB.2.M25.Z | 0-1106429-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 16 | HB-K.10.SGD-LB.1.16.Z | 2-1102286-2 |
| | | 2x16 | HB-K.10.SGD-LB.2.16.Z | 2-1102288-2 |
| | 2xM25 | | HB-K.10.SGD-LB.2.M25.Z | 0-1106429-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|   | | 2x21 | HD.24.SGD-LB.2.21.Z | 1-1102523-2 |
| | | 29 | HD.24.SGD-LB.1.29.Z | 1-1102525-2 |
| | | 2x29 | HD.24.SGD-LB.2.29.Z | 1-1102527-2 |
| | 2xM32 | | HD.24.SGD-LB.2.M32.Z | 0-1106433-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.24.SGD-LB.1.21.Z | 2-1102521-2 |
| | | 29 | HD-K.24.SGD-LB.1.29.Z | 2-1102525-2 |
| | | 2x29 | HD-K.24.SGD-LB.2.29.Z | 2-1102527-2 |
| | 2xM32 | | HD-K.24.SGD-LB.2.M32.Z | 0-1106433-6 |
| **Kupplungsgehäuse:** Kabeleingang unten, Standard Bauform<br>***Cable-to-cable hood:*** *Bottom entry, Standard construction* | | | | |
|   | | 16 | HB.10.KDO-LB.1.16.G | 1-1102279-2 |
| | | 21 | HB.10.KDO-LB.1.21.G | 1-1102282-2 |
| | M25 | | HB.10.KDO-LB.1.M25.G | 0-1106428-1 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | | | | |
|   | | 29 | HD.24.KDO-LB.1.29.G | 1-1102519-2 |
| | M32 | | HD.24.KDO-LB.1.M32.G | 0-1106432-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.24.KDO-LB.1.29.G | 2-1102519-2 |
| | M32 | | HD-K.24.KDO-LB.1.M32.G | 0-1106432-3 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

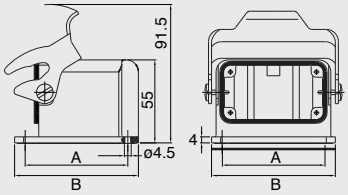
## HM.10 Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## HM-10 Motoranschlußgehäuse/*Motor connector* — IP 65

| **Bezeichnung** *Description* | A | B | **Bestelltext** *Designation* | **Bestell-Nr.** *Order No.* |
|---|---|---|---|---|
| HM-10 Motoranschlußgehäuse, Längsbügel am Gehäuse<br>*HM-10 Motor Connector, Side clip at housing* | | | | |
| | 68,00 | 82,00 | HM.10-82/82 | 8-1108772-2 |
| | 73,00 | 85,00 | HM.10-85/85 | 8-1108772-5 |
| | 78,00 | 90,00 | HM.10-90/90 | 8-1108772-0 |
| | 80,00 | 94,00 | HM.10-94/94 | 8-1108772-4 |
| | - | 98,00 | HM.10-98/98 | 8-1108772-8 |

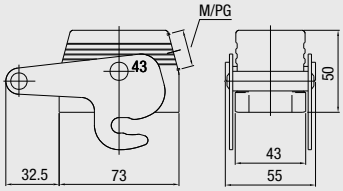
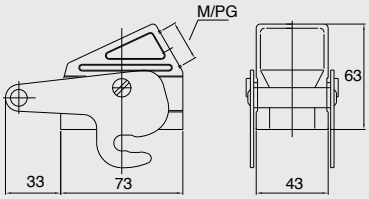
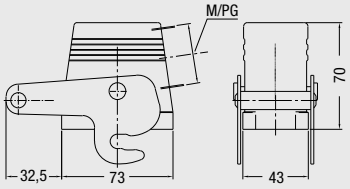
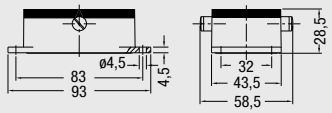


## HB-Z.10, HB-K/Z.10, HD-Z.24, HD-K/Z.24 Gehäuse/*Housings* — Baugröße/*Size 4*

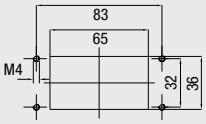
**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M25 | 16 | HB-Z.10.STS-ZB.1.16.G<br>HB-Z.10.STS-ZB.1.M25.G | 1-1102261-3<br>1-1106430-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-K/Z.10.STS-ZB.1.16.G<br>HB-K/Z.10.STS-ZB.1.M25.G | 2-1102261-3<br>1-1106430-4 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M25 | 16 | HB-KF.10.STS-ZB.1.16.G<br>HB-KF.10.STS-ZB.1.M25.G | 1-1102211-3<br>0-1106431-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M25 | 16 | HB-KF/K.10.STS-ZB.1.16.G<br>HB-KF/K.10.STS-ZB.1.M25.G | 2-1102211-3<br>0-1106431-8 |
| **Steckergehäuse:** Kabeleingang seitlich,Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | M32 | 21<br>29 | HD-Z.24.STS-ZB.1.21.G<br>HD-Z.24.STS-ZB.1.29.G<br>HD-Z.24.STS-ZB.1.M32.G | 1-1102496-3<br>1-1102499-3<br>1-1106434-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21<br>29 | HD-K/Z.24.STS-ZB.1.21.G<br>HD-K/Z.24.STS-ZB.1.29.G | 2-1102496-3<br>2-1102499-3 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|   | | | HB-Z.10.AG-ZVGR | 1-1102271-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K/Z.10.AG-ZVGR | 2-1102271-8 |

Montageausschnitt/*Panel cut-out*




## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



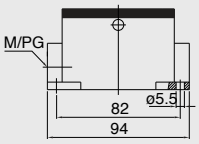
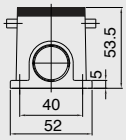
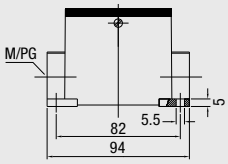
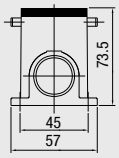
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB-Z.10, HB-K/Z.10, HD-Z.24, HD-K/Z.24 Gehäuse/*Housings* — Baugröße/*Size 4*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|     | 2xM25 | 16<br>2x16 | HB-Z.10.SG-ZVGR.1.16.Z<br>HB-Z.10.SG-ZVGR.2.16.Z<br>HB-Z.10.SG-ZVGR.2.M25.Z | 1-1102274-8<br>1-1102276-8<br>1-1106429-0 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM25 | 16<br>2x16 | HB-K/Z.10.SG-ZVGR.1.16.Z<br>HB-K/Z.10.SG-ZVGR.2.16.Z<br>HB-K/Z.10.SG-ZVGR.2.M25.Z | 2-1102274-8<br>2-1102276-8<br>0-1106429-9 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|     | 2xM32 | 29<br>2x29 | HD-Z.24.SG-ZVGR.1.29.Z<br>HD-Z.24.SG-ZVGR.2.29.Z<br>HD-Z.24.SG-ZVGR.2.M32.Z | 1-1102511-8<br>1-1102513-8<br>1-1106434-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | 29<br>2x29 | HD-K/Z.24.SG-ZVGR.1.29.Z<br>HD-K/Z.24.SG-ZVGR.2.29.Z<br>HD-K/Z.24.SG-ZVGR.2.M32.Z | 2-1102511-8<br>2-1102513-8<br>0-1106469-9 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

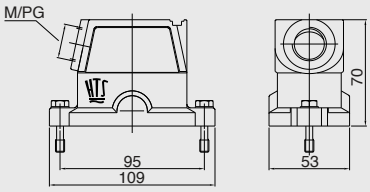
## HIP.10/24, HIP-K.10/24, EMV-K.10/24 Gehäuse/*Housings* — Baugröße/*Size 4*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

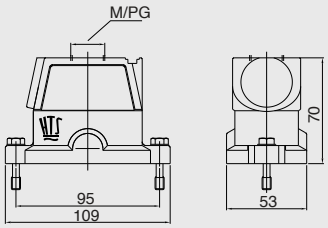
## Druckdicht bis ≤ 5 bar/*pressure-tight up to 5 bar* — IP 68

**Steckergehäuse:** Kabeleingang seitlich
***Hood:*** *Side entry, Standard construction*



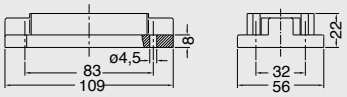

| Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|
| | | **HIP** | |
| | 16 | HIP.10/24.STS.1.16.G | 1-1102640-5 |
| | 21 | HIP.10/24.STS.1.21.G | 1-1102642-5 |
| M25 | | HIP.10/24.STS.1.M25.G | 0-1106436-2 |
| | | **HIP-K** | |
| | 21 | HIP-K.10/24.STS.1.21.G | 2-1102642-5 |
| M25 | | HIP-K.10/24.STS.1.M25.G | 0-1106436-4 |
| M32 | | HIP-K.10/24.STS.1.M32.G | 0-1106436-6 |
| | | **EMV-K** | |
| | 21 | EMV-K.10/24.STS.1.21.G | 4-1102714-5 |
| M25 | | EMV-K.10/24.STS.1.M25.G | 0-1106427-3 |
| M32 | | EMV-K.10/24.STS.1.M32.G | 1-1106427-0 |

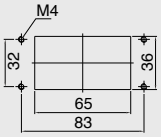
**Steckergehäuse:** Kabeleingang oben
***Hood:*** *Top entry*




| Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|
| | | **HIP** | |
| | 16 | HIP.10/24.STO.1.16.G | 1-1102644-5 |
| | 21 | HIP.10/24.STO.1.21.G | 1-1102646-5 |
| M25 | | HIP.10/24.STO.1.M25.G | 0-1106436-1 |
| | | **HIP-K** | |
| | 16 | HIP-K.10/24.STO.1.16.G | 2-1102644-5 |
| M25 | | HIP-K.10/24.STO.1.M25.G | 0-1106436-3 |
| M32 | | HIP-K.10/24.STO.1.M32.G | 0-1106436-5 |
| | | **EMV-K** | |
| | 21 | EMV-K.10/24.STO.1.21.G | 4-1102715-5 |
| M25 | | EMV-K.10/24.STO.1.M25.G | 0-1106427-4 |

**Anbaugehäuse:** Kabeleingang unten
***Surface mounted housing:*** *Bottom entry*




Montageausschnitt/*Panel cut-out*

| Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|
| | | **HIP** | |
| | | HIP.10/24.AG | 1-1102647-5 |
| | | **HIP-K** | |
| | | HIP-K.10/24.AG | 2-1102647-5 |
| | | **EMV-K** | |
| | | EMV-K.10/24.AG | 4-1102718-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



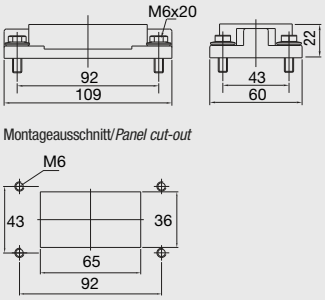
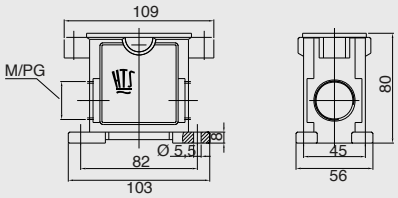
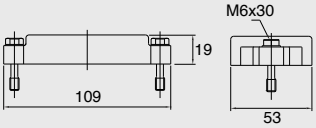
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HIP.10/24, HIP-K.10/24, EMV-K.10/24 Gehäuse/*Housings* — Baugröße/*Size 4*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

## Druckdicht bis ≤ 5 bar/*pressure-tight up to 5 bar* — IP 68

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | | |
|   | | | **HIP**<br>HIP.10/24.AG.M6<br>**HIP-K**<br>HIP-K.10.AG.M6<br>**EMV-K**<br>EMV-K.10/24.AG.M6 | <br>1-1102612-5<br><br>2-1102612-5<br><br>4-1102720-5 |
| **Sockelgehäuse:** Kabeleingang seitlich<br>***Surface mounted housing:*** *Side entry* | | | | |
|   | 2xM32 | 21<br>2x21 | **HIP**<br>HIP.10/24.SG.1.21.G<br>HIP.10/24.SG.2.21.G<br>HIP.10/24.SG.2.M32.G<br>**HIP-K**<br>HIP-K.10/24.SG.1.21.G<br>HIP-K.10/24.SG.2.21.G<br>**EMV-K**<br>EMV-K.10/24.SG.1.21.G<br>EMV-K.10/24.SG.2.21.G<br>EMV-K.10/24.SG.2.M32.G | <br>1-1102610-5<br>1-1102611-5<br>0-1106435-1<br><br>5-1102610-5<br>2-1102611-5<br><br>5-1102716-5<br>4-1102717-5<br>0-1106426-2 |
| **Schutzkappe für Gehäuse-Unterteile**<br>***Protective covers for hoods and housing*** | | | | |
|   | | | **HIP**<br>HIP/EMV.10/24.SKB<br>**HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | <br>3-1106202-5<br><br>4-1106202-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HA.16 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 5***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**16 +** ⏚

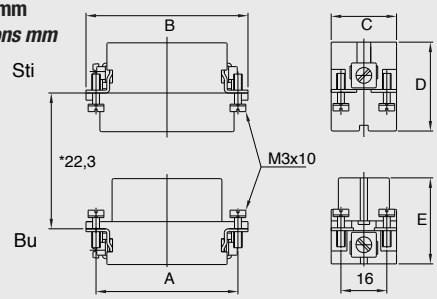
**250 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HA.16.Sti.S.B 1-16 | 1-1103416-1 | |
| | HA.16.Bu.S.B 1-16 | | 1-1103417-1 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HA.16.Sti.SC.B 1-16 | 7-1103416-1 | |
| | HA.16.Bu.SC.B 1-16 | | 7-1103417-1 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HA.16.Sti.C.B 1-16 | 2-1103416-3 | |
| | HA.16.Bu.C.B 1-16 | | 2-1103417-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **66** | **73** | **23** | **31** | **28** |

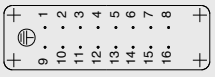
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

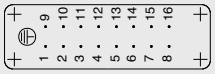



*Abstand für sichere Kontaktgabe max. 24 mm

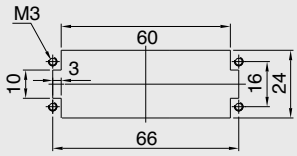
Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.25 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 5***

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**25 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HN.D.25.Sti.C | 2-1103108-3 | |
| | HN.D.25.Sti.C.B.1-25/Z | 0-1103108-1 | |
| Buchseneinsatz/*Female insert* | HN.D.25.Bu.C | | 2-1103109-3 |
| | HN.D.25.Bu.C.B.1-25/Z | | 0-1103109-1 |

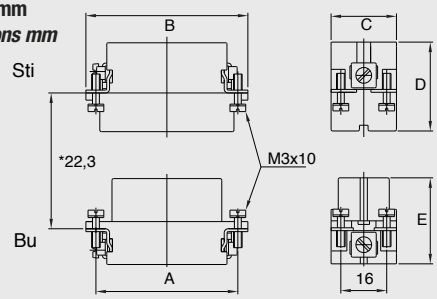
Crimpanschluss/*Crimp terminal*

*Zusätzliche Kennzeichnung „Z“ wie in Euromap 67 hinterlegt
**Marked with „Z“ according Euromap 67*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **66** | **73** | **23** | **35** | **35** |

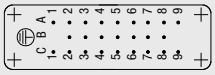
**Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34**
***Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34***

**Maßbild mm**
***Dimensions mm***

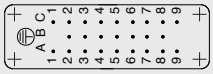



*Abstand für sichere Kontaktgabe max. 24 mm

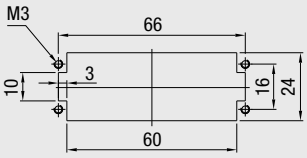
Anschlußseite Stift
*Contact arrangement Male insert*



Anschlußseite Buchse
*Contact arrangement Female insert*



Montageausschnitt
*Panel cut-out*



## HD.25 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 5***

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD.M crimp contacts***

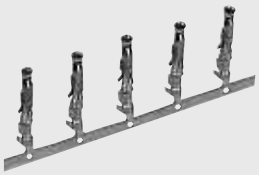
**Kontaktzahlen**
***No. of contacts***

**25 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.25.Sti.C | 2-1103010-3 | |
| Buchseneinsatz/*Female insert* | HD.25.Bu.C | | 2-1103011-3 |

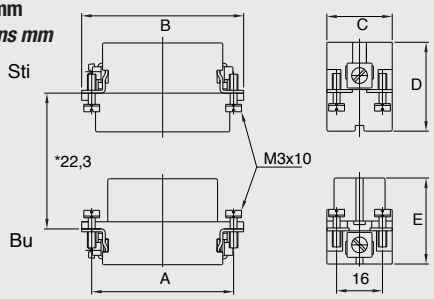
Crimpanschluss/*Crimp terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **66** | **73** | **23** | **35** | **35** |

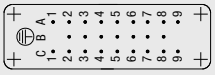
Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***

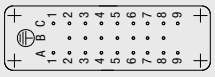



*Abstand für sichere Kontaktgabe max. 24 mm

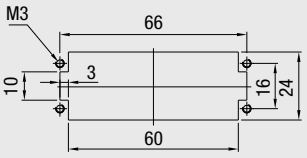
Anschlußseite Stift
*Contact arrangement Male insert*



Anschlußseite Buchse
*Contact arrangement Female insert*



Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

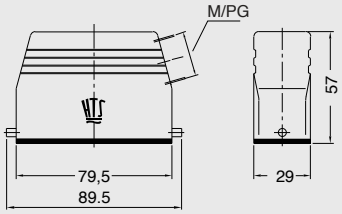
## HA.16/HD.25 Gehäuse/*Housings* — Baugröße/*Size 5*

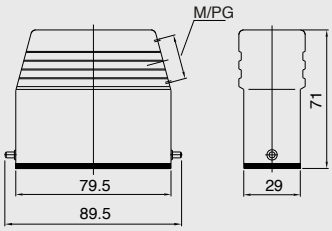
**Pulverbeschichtet, silbergrau**

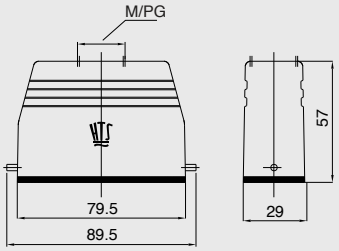
***Powder-coated, silver-grey***

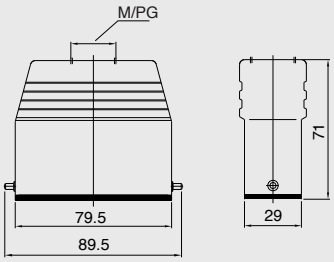
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich<br>***Hood:*** *Side entry* | M20 | 16 | HA.16.STS.1.16.G<br>HA.16.STS.1.M20.G | 1-1102136-7<br>0-1106439-2 |
| **Steckergehäuse:** Kabeleingang seitlich<br>***Hood:*** *Side entry* | M25 | 16<br>21 | HD.25.STS.1.16.G<br>HD.25.STS.1.21.G<br>HD.25.STS.1.M25.G | 1-1102530-7<br>1-1102533-7<br>0-1106442-2 |
| **Steckergehäuse:** Kabeleingang oben,<br>***Hood:*** *Top entry* | M20 | 16 | HA.16.STO.1.16.G<br>HA.16.STO.1.M20.G | 1-1102139-7<br>0-1106439-1 |
| **Steckergehäuse:** Kabeleingang oben,<br>***Hood:*** *Top entry* | M25 | 16<br>21 | HD.25.STO.1.16.G<br>HD.25.STO.1.21.G<br>HD.25.STO.1.M25.G | 1-1102536-7<br>1-1102539-7<br>0-1106442-1 |










## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

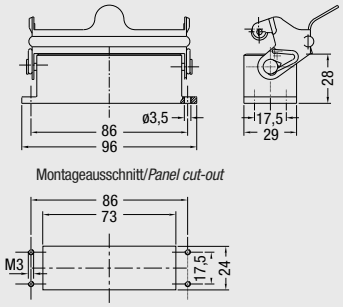
## HA.16/HD.25 Gehäuse/*Housings* — Baugröße/*Size 5*

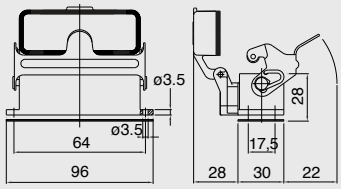
**Pulverbeschichtet, silbergrau**

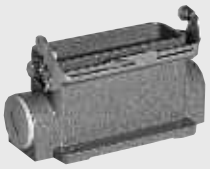
***Powder-coated, silver-grey***

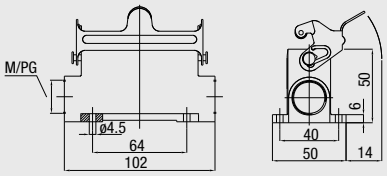
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

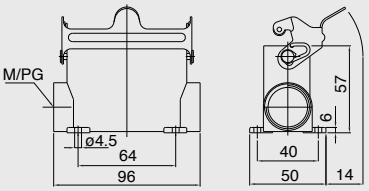
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | HA.16.AG-LB | 1-1102140-2 |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom entry* | | | HA.16.AGD-LB | 1-1102141-2 |
| **Sockelgehäuse:** Kabeleingang seitlich<br>***Surface mounted housing:*** *Side entry* | M20<br>2xM20 | 16<br>2x16 | HA.16.SG-LB.1.16 Z<br>HA.16.SG-LB.2.16 Z<br>HA.16.SG-LB.1.M20.Z<br>HA.16.SG-LB.2.M20.Z | 1-1102143-2<br>1-1102145-2<br>0-1106438-2<br>0-1103058-1 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | 2xM25 | 16<br>2x16<br>21<br>2x21 | HD.25.SG-LB.1.16 Z<br>HD.25.SG-LB.2.16 Z<br>HD.25.SG-LB.1.21 Z<br>HD.25.SG-LB.2.21 Z<br>HD.25.SG-LB.2.M25.Z | 1-1102541-2<br>1-1102543-2<br>1-1102545-2<br>1-1102547-2<br>0-1106441-2 |










## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

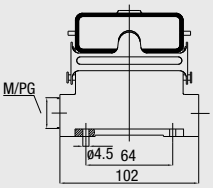
## HA.16/HD.25 Gehäuse/*Housings* — Baugröße/*Size 5*

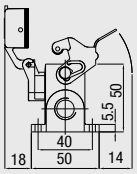
**Pulverbeschichtet, silbergrau**

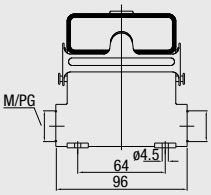
***Powder-coated, silver-grey***

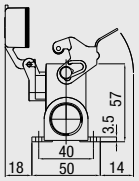
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

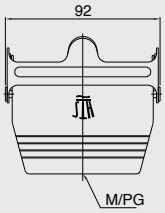
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | M20<br>2xM20 | 16<br>2x16 | HA.16.SGD-LB.1.16 Z<br>HA.16.SGD-LB.2.16 Z<br>HA.16.SGD-LB.1.M20.Z<br>HA.16.SGD-LB.2.M20.Z | 1-1102147-2<br>1-1102149-2<br>0-1106438-1<br>0-1103058-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | 2xM25 | 16<br>2x16<br>21<br>2x21 | HD.25.SGD-LB.1.16 Z<br>HD.25.SGD-LB.2.16 Z<br>HD.25.SGD-LB.1.21 Z<br>HD.25.SGD-LB.2.21.Z<br>HD.25.SGD-LB.2.M25.Z | 1-1102549-2<br>1-1102551-2<br>1-1102553-2<br>1-1102555-2<br>0-1106441-1 |
| **Kupplungsgehäuse:** Kabeleingang unten, Standard Bauform<br>***Cable-to-cable hood:*** *Bottom entry, Standard construction* | M20 | 16 | HA.16.KDO-LB.1.16 G<br>HA.16.KDO-LB.1.M20.G | 1-1102152-2<br>0-1106437-1 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | M25 | 21 | HD.25.KDO-LB.1.21 G<br>HD.25.KDO-LB.1.M25.G | 1-1102561-2<br>0-1106440-1 |

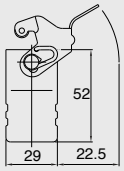


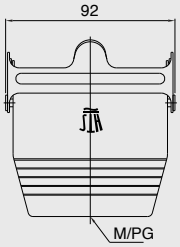


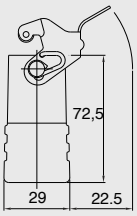













## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HE.16 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

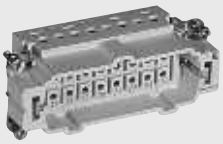
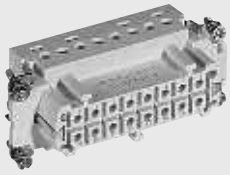
**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**16 +** ⏚

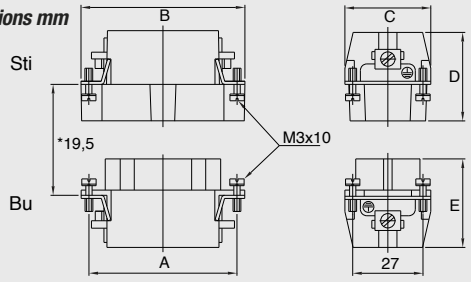
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HE.16.Sti.S.B 1-16 | 1-1103638-1 | |
| | HE.16.Bu.S.B 1-16 | | 1-1103639-1 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HE.16.Sti.SC.B 1-16 | 7-1103638-1 | |
| | HE.16.Bu.SC.B 1-16 | | 7-1103639-1 |
| Crimpanschluss/*Crimp terminal* | | | |
|  | HE.16.Sti.C.B 1-16 | 2-1103638-3 | |
|  | HE.16.Bu.C.B 1-16 | | 2-1103639-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **34** | **35** |

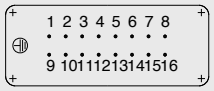
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

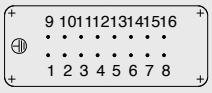



*Abstand für sichere Kontaktgabe max. 21 mm

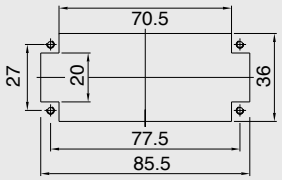
Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HEE.32 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

**Crimpanschluss für gedrehte HE Crimpkontakte**

***Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**32 +** ⏚

**500 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HEE.32.Sti.C | 0-1102895-1 | |
| | HEE.32.Sti.C.FS* | 0-1102895-3 | |
| Buchseneinsatz/*Female insert* | HEE.32.Bu.C | | 0-1102896-1 |
| | HEE.32.Bu.C.FS* | | 0-1102896-3 |

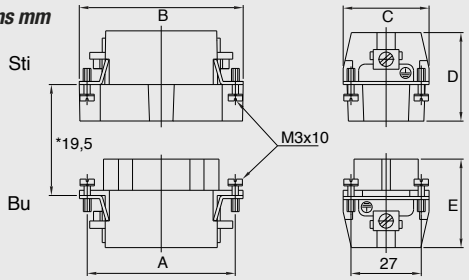
Crimpanschluss/*Crimp terminal*

*Kunststoff ist I2F1 qualifiziert nach NF-F 16-101, 102
*Plastic is qualified I2F1 according NF-F 16-101, 102*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **34** | **37** |

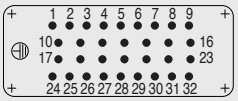
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

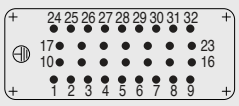



*Abstand für sichere Kontaktgabe max. 21 mm

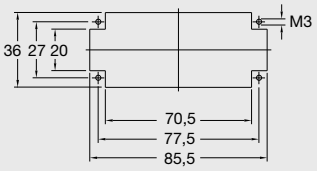
Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*



## HVT.23 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 6*

**Crimpanschluss für gedrehte HVT Crimpkontakte**

***Crimp terminal for screw machined HVT crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**23 +** ⏚

**400 V/16 A**

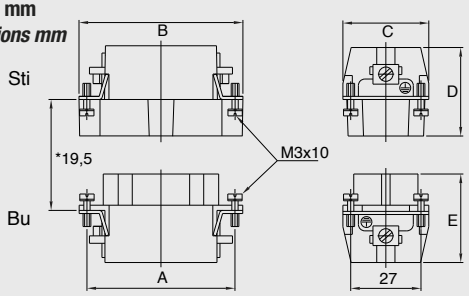
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HVT.23.Sti.C | 2-1104008-3 | |
| Buchseneinsatz/*Female insert* | HVT.23.Bu.C | | 2-1104010-3 |

Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **35** | **40** |

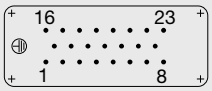
Passende Crimpkontakte siehe Seite 38, Passende Crimpwerkzeuge siehe Seite 38
*Suitable Crimp contacts see page 38, Suitable Crimping tools see page 38*

**Maßbild mm**
***Dimensions mm***

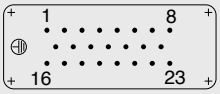



*Abstand für sichere Kontaktgabe max. 21 mm

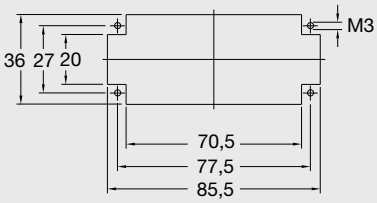
Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.40/HN.2D.72 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

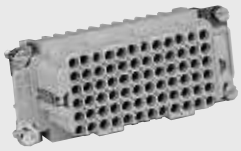
**40/72 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HN.D.40.Sti.C | 2-1103110-3 | |
| Buchseneinsatz/*Female insert* | HN.D.40.Bu.C | | 2-1103111-3 |
| Stifteinsatz/*Male insert* | HN.2D.72.Sti.C.B1-72 | 2-1103208-3 | |
| Buchseneinsatz/*Female insert* | HN.2D.72.Bu.C.B1-72 | | 2-1103212-3 |

Crimpanschluss/*Crimp terminal*

Crimpanschluss/*Crimp terminal*



HN.D.40

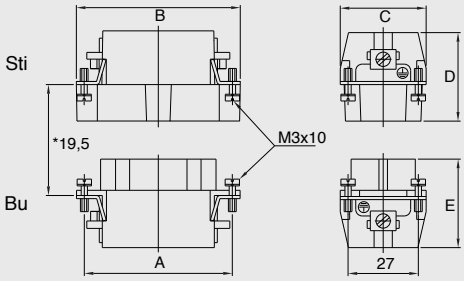
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **84,5** | **33** | **35** | **35** |

HN.2D.72

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **34** | **36,5** | **37** |

**Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34**
***Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34***

**Maßbild mm/*Dimensions mm***

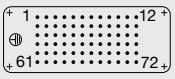



*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*

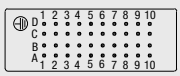
HN.D.40

HN.2D.72

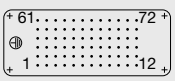



Anschlußseite Buchse/*Contact arrangement Female insert*

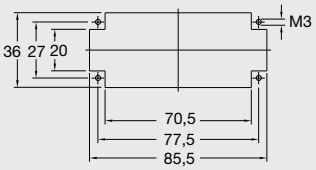
HN.D.40




HN.2D.72




Montageausschnitt
*Panel cut-out*



## HD.40 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD.M crimp contacts***

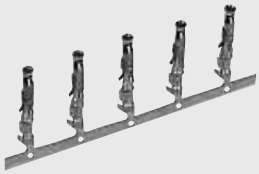
**Kontaktzahlen**
***No. of contacts***

**40 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.40.Sti.C | 2-1103012-3 | |
| Buchseneinsatz/*Female insert* | HD.40.Bu.C | | 2-1103013-3 |

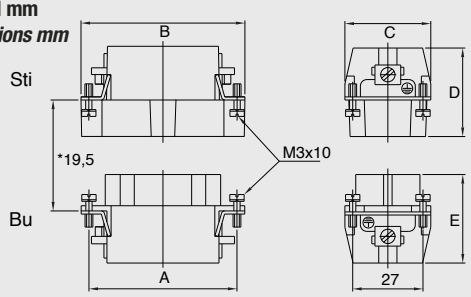
Crimpanschluss/*Crimp terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **84,5** | **33** | **35** | **35** |

Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***

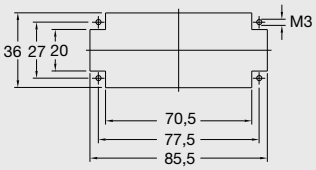



*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*

Anschlußseite Buchse
*Contact arrangement Female insert*

Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HSK.6+36 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

**Crimpanschluss für gedrehte HSK/HN.D Crimpkontakte**

***Crimp terminal for screw machined HSK/HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**6 + 36 +** ⏚

**690 V/40 A, 250 V/10 A**

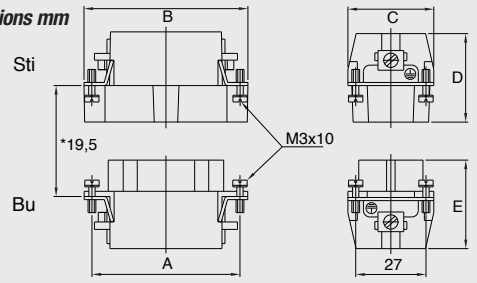
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HSK.6/36.Sti.C | 0-1108761-1 | |
| Buchseneinsatz/*Female insert* | HSK.6/36.Bu.C | | 0-1108762-1 |

Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **34** | **39** | **41** |

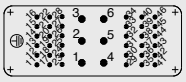
**Passende Crimpkontakte Power siehe Seite 39, passende Crimpkontakte Signal siehe Seite 34**
***Suitable Crimp contacts Power see page 39, suitable Crimp contacts Signal see page 34***

**Maßbild mm**
***Dimensions mm***

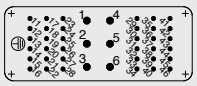



*Abstand für sichere Kontaktgabe max. 21 mm

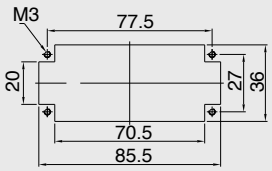
Anschlußseite Stift
*Contact arrangement Male insert*



Anschlußseite Buchse
*Contact arrangement Female insert*



Montageausschnitt
*Panel cut-out*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HMX.6/12 + 12/2 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

**Crimpanschluss für gedrehte HSK/HN.D Crimpkontakte**

***Crimp terminal for screw machined HSK/HN.D crimp contacts***

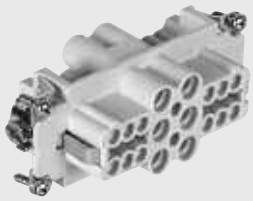
**Kontaktzahlen**
***No. of contacts***

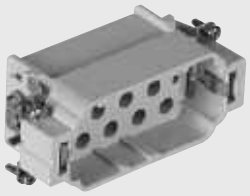
**6/12; 12/2 +** ⏚

**690 V/40 A, 400 V/10 A; 500 V/40 A, 250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HMX.6/12.Sti.C | 0-1103146-1 | |
| Buchseneinsatz/*Female insert* | HMX.6/12.Bu.C | | 0-1103147-1 |
| Stifteinsatz/*Male insert* | HMX.12/2.Sti.C | 0-1103153-1 | |
| Buchseneinsatz/*Female insert* | HMX.12/2.Bu.C | | 0-1103154-1 |

Crimpanschluss/*Crimp terminal*





HMX.6/12

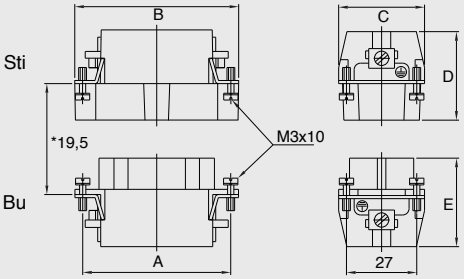
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **84** | **35** | **39** | **38** |

HMX.12/2

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **84** | **34** | **39** | **38** |

**Passende Crimpkontakte Power siehe Seite 39, passende Crimpkontakte Signal siehe Seite 34**
***Suitable Crimp contacts Power see page 39, suitable Crimp contacts Signal see page 34***

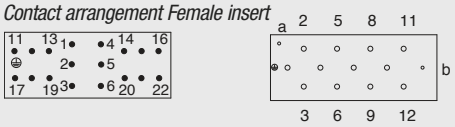
**Maßbild mm/*Dimensions mm***



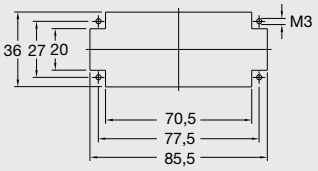

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*

Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HSB.6/35; HMX4/2; HMX4/0 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 6***

**Schraubanschluss**

***Screw terminal***

**Kontaktzahlen**
***No. of contacts***

**6; 4/2; 4/0 +** ⏚

**400 V/35 A; 690 V/80 A, 400 V/16 A; 690 V/80 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HSB.6.35.Sti.S.B 1-6 | 1-1104204-1 | |
| Buchseneinsatz/*Female insert* | | | |
| | HSB.6.35.Bu.S.B 1-6 | | 1-1104205-1 |
| Schraubanschluss/*Screw terminal* | | | |
| | HMX.4/2.Sti.S<br>HMX.4/0.Sti.S | 0-1102075-1<br>0-1104701-1 | |
| | HMX.4/2.Bu.S<br>HMX.4/0.Bu.S | | 0-1102076-1<br>0-1104700-1 |

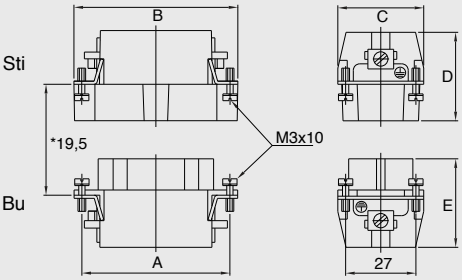
HSB.6/35

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **33** | **33,5** |

HMX.4/2; HMX.4/2

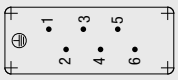
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83** | **33** | **45** | **46** |

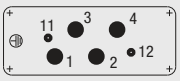
**Maßbild mm/*Dimensions mm***



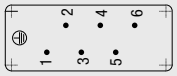

*Abstand für sichere Kontaktgabe max. 21 mm

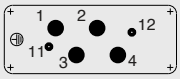
Anschlußseite Stift
*Contact arrangement Male insert*



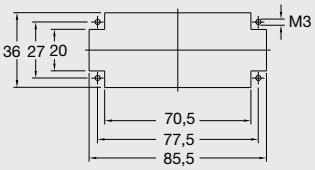




Anschlußseite Buchse
*Contact arrangement Female insert*



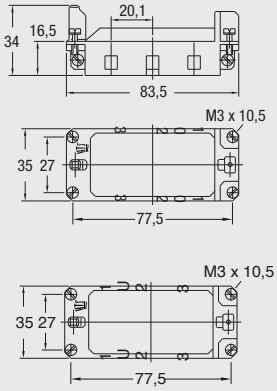
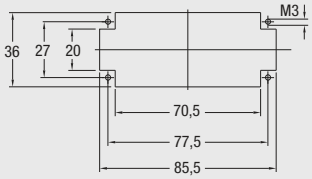
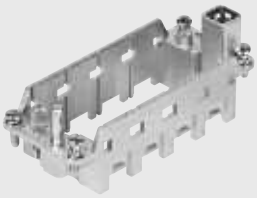
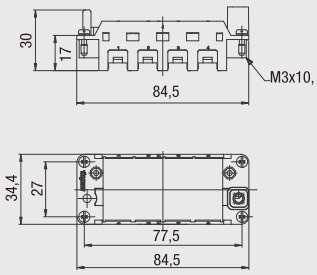
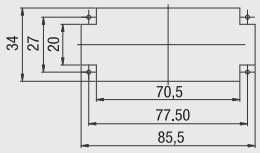




Montageausschnitt
*Panel cut-out*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 6*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
| Für Modul MDL Seite 194–203 *For module MDL page 194–203*   | MDL2-GR.O-6/B.1-3 | 0-1108782-1 | |
| | MDL2-GR.U-6/B.1-3 | | 0-1108782-2 |
| Montageausschnitt/*Panel cut-out*   | | | |
| Halterahmen/*Fixing frame* | | | |
|  Für Modul HVS Seite 204–212 *For module HVS page 204–212*   | HVS-R.O 1-4 | 0-1103250-3 | |
| | HVS-R.u 1-4 | | 0-1103250-4 |
| Montageausschnitt/*Panel cut-out*   | | | |



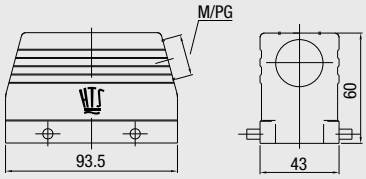
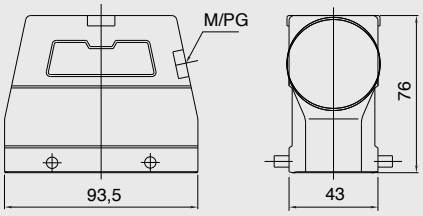
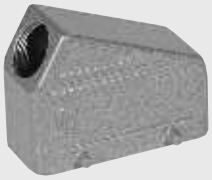
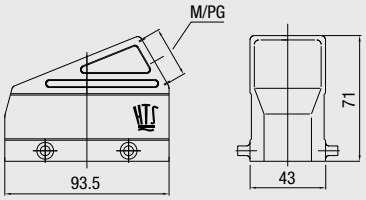
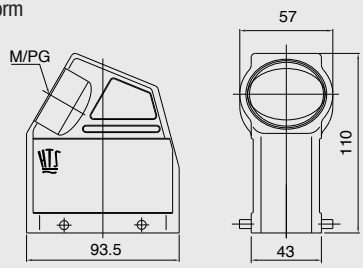
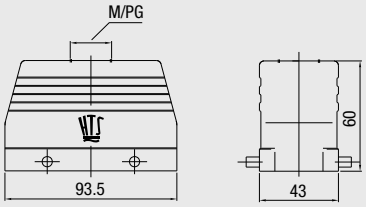
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M25<br>M32 | 21 | HB.16.STS.1.21.G<br>HB.16.STS.1M25.G<br>HB.16.STS.1M32.G | 1-1102292-6<br>2-1106449-5<br>0-1106449-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HB-K.16.STS.1.21.G<br>HB-K.16.STS.1M32.G | 2-1102292-6<br>1-1106449-0 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | M32<br>M40 | 21<br>29 | HD.40.STS.1.21.G<br>HD.40.STS.1.29.G<br>HD.40.STS.1.M32.G<br>HD.40.STS.1.M40.G | 1-1102564-6<br>1-1102567-6<br>0-1106452-4<br>1-1106452-7 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21<br>29 | HD-K.40.STS.1.21.G<br>HD-K.40.STS.1.29.G<br>HD-K.40.STS.1.M32.G | 2-1102564-6<br>2-1102567-6<br>1-1106452-0 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|    | M32 | 21 | HB-KF.16.STS.1.21.G<br>HB-KF.16.STS.1.M32.G | 1-1102220-6<br>1-1106449-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HB-KF/K.16.STS.1.21.G<br>HB-KF/K.16.STS.1.M32.G | 2-1102220-6<br>1-1106449-8 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M40 | 29 | HD-KF.40.STS.1.29.G<br>HD-KF.40.STS.1.M40.G | 1-1102765-0<br>1-1102766-0 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M40 | 29 | HD-KF/K.40.STS.1.29.G<br>HD-KF/K.40.STS.1.M40.G | 2-1102765-0<br>2-1102766-0 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|   | M32 | 21 | HB.16.STO.1.21.G<br>HB.16.STO.1M32.G | 1-1102295-6<br>0-1106449-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HB-K.16.STO.1.21.G<br>HB-K.16.STO.1M32.G | 2-1102295-6<br>0-1106449-7 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
| | | 2x21 | HD.40.STO.2.21.G | 3-1102570-0 |
| | | 21 | HD.40.STO.1.21.G | 1-1102570-6 |
| | | 29 | HD.40.STO.1.29.G | 1-1102573-6 |
| | M32 | | HD.40.STO.1.M32.G | 0-1106452-1 |
| | M40 | | HD.40.STO.1.M40.G | 0-1102920-1 |
| | | | Mit Korrosionsschutz<br>With corrosion protection | |
| | | 21 | HD-K.40.STO.1.21.G | 2-1102570-6 |
| | | 29 | HD-K.40.STO.1.29.G | 2-1102573-6 |
| | M32 | | HD-K.40.STO.1.M32.G | 0-1106452-7 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | HB.16.AG-VS | 1-1102296-1 |
| | | | Mit Korrosionsschutz<br>With corrosion protection | |
| | | | HB-K.16.AG-VS | 2-1102296-1 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
| | | 21 | HB.16.SG-VS.1.21.Z | 1-1102299-1 |
| | | 2x21 | HB.16.SG-VS.2.21.Z | 1-1102301-1 |
| | M25 | | HB.16.SG-VS.1.M25.Z | 0-1103060-1 |
| | 2xM25 | | HB.16.SG-VS.2.M25.Z | 0-1106448-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.16.SG-VS.1.21.Z | 2-1102299-1 |
| | | 2x21 | HB-K.16.SG-VS.2.21.Z | 2-1102301-1 |
| | M25 | | HB-K.16.SG-VS.1.M25.Z | 1-1106448-2 |
| | 2xM25 | | HB-K.16.SG-VS.2.M25.Z | 0-1106448-9 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
| | | 21 | HD.40.SG-VS.1.21.Z | 1-1102575-1 |
| | | 2x21 | HD.40.SG-VS.2.21.Z | 1-1102577-1 |
| | | 29 | HD.40.SG-VS.1.29.Z | 1-1102579-1 |
| | | 2x29 | HD.40.SG-VS.2.29.Z | 1-1102581-1 |
| | M32 | | HD.40.SG-VS.1.M32.Z | 0-1103082-1 |
| | 2xM32 | | HD.40.SG-VS.2.M32.Z | 0-1106451-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.40.SG-VS.1.21.Z | 2-1102575-1 |
| | | 2x21 | HD-K.40.SG-VS.2.21.Z | 2-1102577-1 |
| | | 29 | HD-K.40.SG-VS.1.29.Z | 2-1102579-1 |
| | 2xM32 | | HD-K.40.SG-VS.2.M32.Z | 0-1106451-8 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

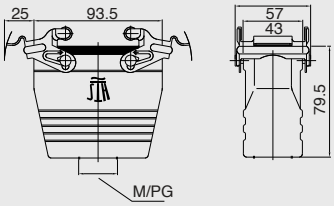
## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

**Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform
***Cable-to-cable hood:*** *Bottom entry, High construction*




| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| | | 21 | HD.40.KDO-VS.1.21.G | 1-1102584-1 |
| | | 29 | HD.40.KDO-VS.1.29 G | 1-1102587-1 |
| | M32 | | HD.40.KDO-VS.1.M32.G | 0-1106450-2 |
| | | | Mit Korrosionsschutz *With corrosion protection* | |
| | | 29 | HD-K.40.KDO-VS.1.29 G | 2-1102587-1 |
| | M32 | | HD-K.40.KDO-VS.1.M32.G | 0-1106450-4 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

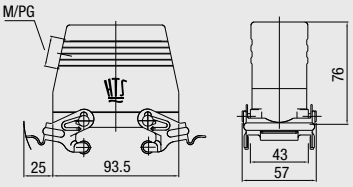
## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

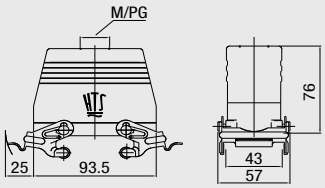
**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
| | | 21 | HD.40.STS-VS.1.21.G | 1-1102564-1 |
| | | 29 | HD.40.STS-VS.1.29.G | 1-1102567-1 |
| | M32 | | HD.40.STS-VS.1.M32.G | 0-1106452-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.40.STS-VS.1.21.G | 2-1102564-1 |
| | | 29 | HD-K.40.STS-VS.1.29.G | 2-1102567-1 |
| | M32 | | HD-K.40.STS-VS.1.M32.G | 1-1106452-2 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
| | | 21 | HD.40.STO-VS.1.21.G | 1-1102570-1 |
| | | 29 | HD.40.STO-VS.1.29.G | 1-1102573-1 |
| | M32 | | HD.40.STO-VS.1.M32.G | 0-1106452-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.40.STO-VS.1.21.G | 2-1102570-1 |
| | M32 | | HD-K.40.STO-VS.1.M32.G | 0-1106452-9 |






## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | HB.16.AGD | 1-1102305-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.16.AGD | 2-1102305-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
| | | 21 | HB.16.SGD.1.21.Z | 1-1102308-6 |
| | | 2x21 | HB.16.SGD.2.21.Z | 1-1102310-6 |
| | M25 | | HB.16.SGD.1.M25.Z | 0-1103060-2 |
| | 2xM25 | | HB.16.SGD.2.M25.Z | 0-1106448-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.16.SGD.1.21.Z | 2-1102308-6 |
| | | 2x21 | HB-K.16.SGD.2.21.Z | 2-1102310-6 |
| | 2xM25 | | HB-K.16.SGD.2.M25.Z | 0-1106448-5 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
| | | 21 | HD.40.SGD.1.21.Z | 1-1102589-6 |
| | | 2x21 | HD.40.SGD.2.21.Z | 1-1102591-6 |
| | | 29 | HD.40.SGD.1.29.Z | 1-1102593-6 |
| | | 2x29 | HD.40.SGD.2.29.Z | 1-1102595-6 |
| | 2xM32 | | HD.40.SGD.2.M32.Z | 0-1106451-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.40.SGD.1.21.Z | 2-1102589-6 |
| | | 2x21 | HD-K.40.SGD.2.21.Z | 2-1102591-6 |
| | 2xM32 | | HD-K.40.SGD.2.M32.Z | 0-1106451-5 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***

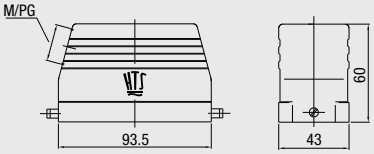
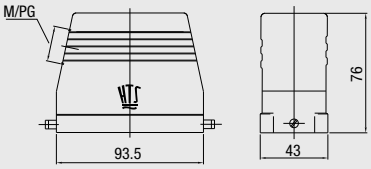
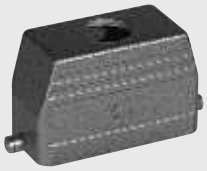
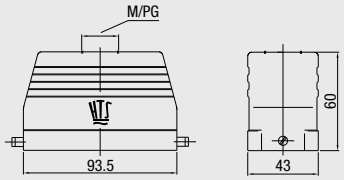
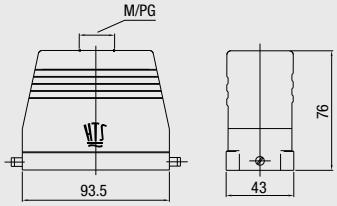
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M32 | 21 | HB.16.STS-GR.1.21.G<br>HB.16.STS-GR.1.M32.G | 1-1102292-7<br>0-1106449-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HB-K.16.STS-GR.1.21.G<br>HB-K.16.STS-GR.1.M32.G | 2-1102292-7<br>1-1106449-1 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | M32 | 21<br>29 | HD.40.STS-GR.1.21.G<br>HD.40.STS-GR.1.29.G<br>HD.40.STS-GR.1.M32.G | 1-1102564-7<br>1-1102567-7<br>0-1106452-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21<br>29 | HD-K.40.STS-GR.1.21.G<br>HD-K.40.STS-GR.1.29.G<br>HD-K.40.STS-GR.1.M32.G | 2-1102564-7<br>2-1102567-7<br>1-1106452-1 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|    | M32 | 21 | HB.16.STO-GR.1.21.G<br>HB.16.STO-GR.1.M32.G | 1-1102295-7<br>0-1106449-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HB-K.16.STO-GR.1.21.G<br>HB-K.16.STO-GR.1.M32.G | 2-1102295-7<br>0-1106449-8 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|   | M32 | 21<br>29 | HD.40.STO-GR.1.21.G<br>HD.40.STO-GR.1.29.G<br>HD.40.STO-GR.1.M32.G | 1-1102570-7<br>1-1102573-7<br>0-1106452-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HD-K.40.STO-GR.1.21.G<br>HD-K.40.STO-GR.1.M32.G | 2-1102570-7<br>0-1106452-8 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



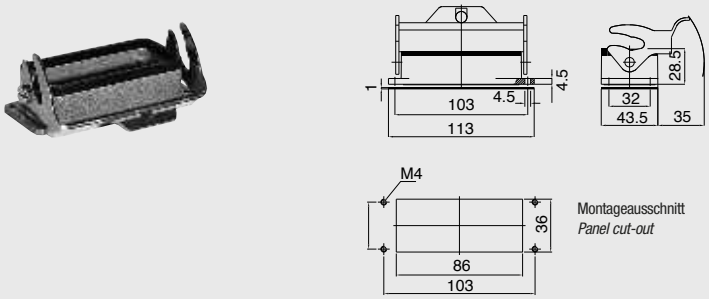
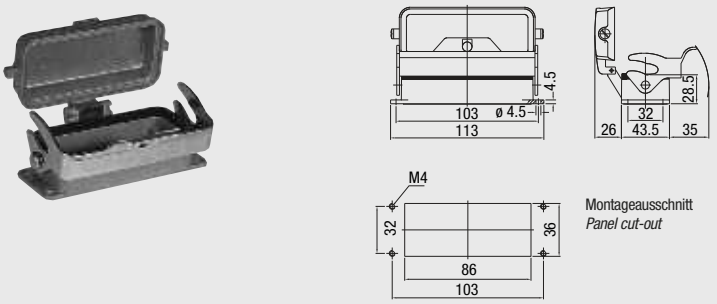
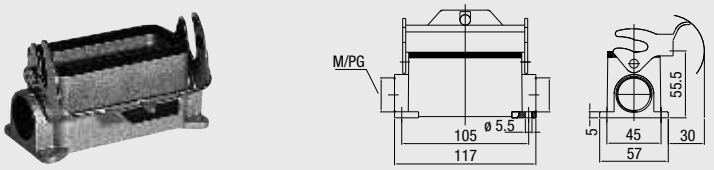
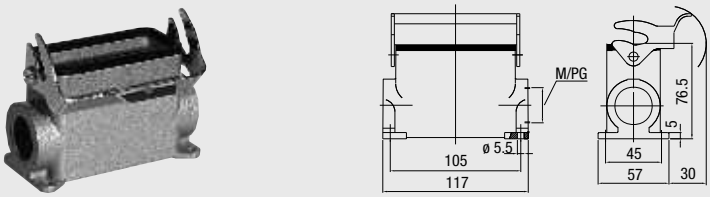
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.16.AG-LB | 1-1102296-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.16.AG-LB | 2-1102296-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.16.AGD-LB | 1-1102305-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.16.AGD-LB | 2-1102305-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|  | | 21 | HB.16.SG-LB.1.21.Z | 1-1102299-2 |
| | | 2x21 | HB.16.SG-LB.2.21.Z | 1-1102301-2 |
| | M25 | | HB.16.SG-LB.1.M25.Z | 0-1103060-3 |
| | 2xM25 | | HB.16.SG-LB.2.M25.Z | 0-1106448-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM25 | | HB-K.16.SG-LB.2.M25.Z | 0-1106448-7 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|  | | 21 | HD.40.SG-LB.1.21.Z | 1-1102575-2 |
| | | 2x21 | HD.40.SG-LB.2.21.Z | 1-1102577-2 |
| | | 29 | HD.40.SG-LB.1.29.Z | 1-1102579-2 |
| | | 2x29 | HD.40.SG-LB.2.29.Z | 1-1102581-2 |
| | 2xM32 | | HD.40.SG-LB.2.M32.Z | 0-1106451-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.40.SG-LB.1.21.Z | 2-1102575-2 |
| | 2xM32 | | HD-K.40.SG-LB.2.M32.Z | 0-1106451-7 |

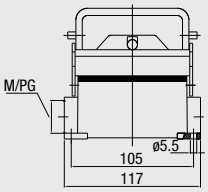
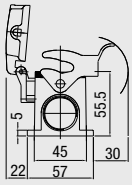
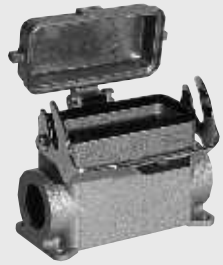
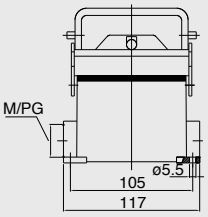
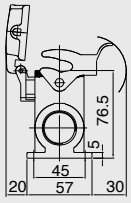
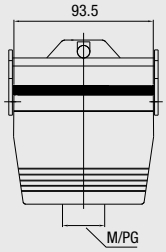
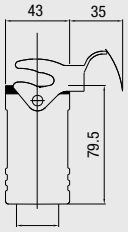
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB.16, HB-K.16, HD.40, HD-K.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|     | 2xM25 | 21<br>2x21 | HB.16.SGD-LB.1.21.Z<br>HB.16.SGD-LB.2.21.Z<br>HB.16.SGD-LB.2.M25.Z | 1-1102308-2<br>1-1102310-2<br>0-1106448-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM25 | 21<br>2x21 | HB-K.16.SGD-LB.1.21.Z<br>HB-K.16.SGD-LB.2.21.Z<br>HB-K.16.SGD-LB.2.M25.Z | 2-1102308-2<br>2-1102310-2<br>0-1106448-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|      | 2xM32 | 21<br>2x21<br>29<br>2x29 | HD.40.SGD-LB.1.21.Z<br>HD.40.SGD-LB.2.21.Z<br>HD.40.SGD-LB.1.29.Z<br>HD.40.SGD-LB.2.29.Z<br>HD.40.SGD-LB.2.M32.Z | 1-1102589-2<br>1-1102591-2<br>1-1102593-2<br>1-1102595-2<br>0-1106451-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | 21<br>2x21<br>29<br>2x29 | HD-K.40.SGD-LB.1.21.Z<br>HD-K.40.SGD-LB.2.21.Z<br>HD-K.40.SGD-LB.1.29.Z<br>HD-K.40.SGD-LB.2.29.Z<br>HD-K.40.SGD-LB.2.M32.Z | 2-1102589-2<br>2-1102591-2<br>2-1102593-2<br>2-1102595-2<br>0-1106451-6 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | | | | |
|     | M32 | 21<br>29 | HD.40.KDO-LB.1.21.G<br>HD.40.KDO-LB.1.29.G<br>HD.40.KDO-LB.1.M32.G | 1-1102584-2<br>1-1102587-2<br>0-1106450-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | | HD-K.40.KDO-LB.1.M32.G | 0-1106450-3 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



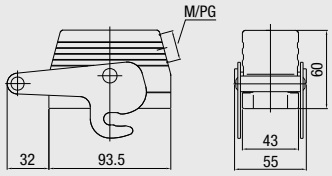
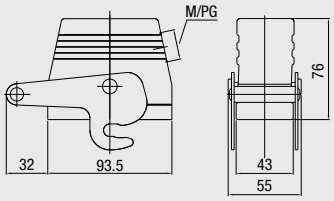
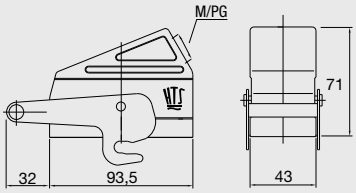
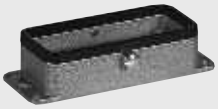
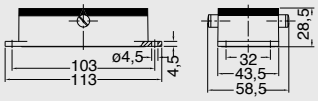
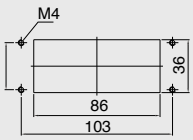
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB-Z.16, HB-K/Z.16, HD-Z.40, HD-K/Z.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M32 | 21 | HB-Z.16.STS-ZB.1.21.G | 1-1102292-3 |
| | | | HB-Z.16.STS-ZB.1.M32.G | 2-1106449-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 21 | HB-K/Z.16.STS-ZB.1.21.G | 2-1102292-3 |
| | | | HB-K/Z.16.STS-ZB.1.M32.G | 1-1106449-4 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 21 | HD-Z.40.STS-ZB.1.21.G | 1-1102564-3 |
| | | 29 | HD-Z.40.STS-ZB.1.29.G | 1-1102567-3 |
| | M32 | | HD-Z.40.STS-ZB.1.M32.G | 1-1106452-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K/Z.40.STS-ZB.1.21.G | 2-1102564-3 |
| | | 29 | HD-K/Z.40.STS-ZB.1.29.G | 2-1102567-3 |
| | M32 | | HD-K/Z.40.STS-ZB.1.M32.G | 1-1106452-4 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | | 21 | HB-KF-Z.16.STS-ZB.1.21.G | 1-1102220-3 |
| | M32 | | HB-KF-Z.16.STS-ZB.1.M32.G | 2-1106449-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-KF/K-Z.16.STS-ZB.1.21.Z | 2-1102220-3 |
| | M32 | | HB-KF/K-Z.16.STS-ZB.1.M32.G | 2-1106449-1 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|    | | | HB-Z.16.AG-ZVGR | 1-1102296-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
|   Montageausschnitt<br>*Panel cut-out* | | | HB-K/Z.16.AG-ZVGR | 2-1102296-8 |

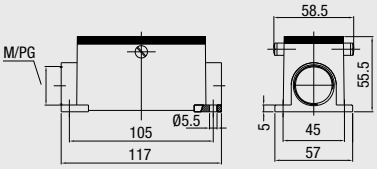
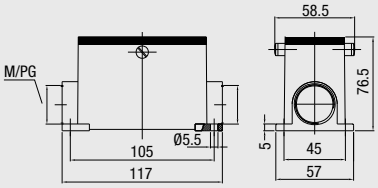
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB-Z.16, HB-K/Z.16, HD-Z.40, HD-K/Z.40 Gehäuse/*Housings* — Baugröße/*Size 6*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | | 21 | HB-Z.16.SG-ZVGR.1.21.Z | 1-1102299-8 |
| | | 2x21 | HB-Z.16.SG-ZVGR.2.21.Z | 1-1102301-8 |
| | 2xM25 | | HB-Z.16.SG-ZVGR.2.M25.G | 1-1106448-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K/Z.16.SG-ZVGR.1.21.Z | 2-1102299-8 |
| | | 2x21 | HB-K/Z.16.SG-ZVGR.2.21.Z | 2-1102301-8 |
| | 2xM25 | | HB-K/Z.16.SG-ZVGR.2.M25.G | 1-1106448-0 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|   | 2xM32 | | HD-Z.40.SG-ZVGR.2.M32.G | 1-1106451-0 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | | HD-K/Z.40.SG-ZVGR.2.M32.G | 0-1106451-9 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

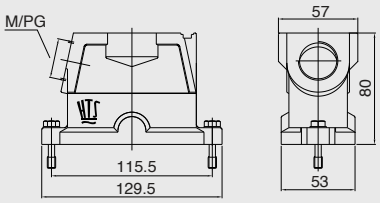
## HIP.16/40, HIP-K.16/40, EMV-K.16/40 Gehäuse/*Housings* — Baugröße/*Size 6*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

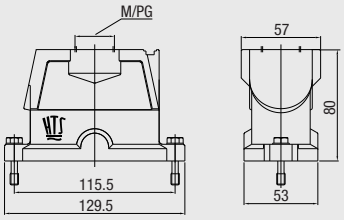
## Druckdicht bis ≤ 5 bar/*pressure-tight up to 5 bar* — IP 68

**Steckergehäuse:** Kabeleingang seitlich
***Hood:*** *Side entry*



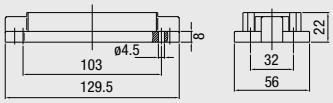

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| | | | **HIP** | |
| | | 21 | HIP.16/40.STS.1.21.G | 1-1102649-5 |
| | | 29 | HIP.16/40.STS.1.29.G | 1-1102651-5 |
| | M32 | | HIP.16/40.STS.1.M32.G | 0-1106454-2 |
| | | | **HIP-K** | |
| | | 29 | HIP-K.16/40.STS.1.29.G | 2-1102651-5 |
| | M32 | | HIP-K.16/40.STS.1.M32.G | 0-1106444-2 |
| | | | **EMV-K** | |
| | | 29 | EMV-K.16/40.STS.1.29.G | 4-1102723-5 |
| | M32 | | EMV-K.16/40.STS.1.M32.G | 0-1106446-4 |
| | | 21 | EMV-K.16/40.STS.1.21.G | 4-1102722-5 |

**Steckergehäuse:** Kabeleingang oben
***Hood:*** *Top entry*

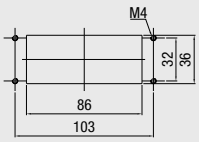



| | | | | |
|---|---|---|---|---|
| | | | **HIP** | |
| | | 21 | HIP.16/40.STO.1.21.G | 1-1102653-5 |
| | | 29 | HIP.16/40.STO.1.29.G | 1-1102655-5 |
| | M32 | | HIP.16/40.STO.1.M32.G | 0-1106454-1 |
| | | | **HIP-K** | |
| | | 21 | HIP-K.16/40.STO.2.21.G | 0-1108534-1 |
| | | 29 | HIP-K.16/40.STO.1.29.G | 2-1102655-5 |
| | M32 | | HIP-K.16/40.STO.1.M32.G | 0-1106444-1 |
| | | | **EMV-K** | |
| | | | EMV-K.16/40.STO.1.29.G | 4-1102725-5 |
| | | | EMV-K.16/40.STO.1.M32.G | 0-1106446-3 |

**Anbaugehäuse:** Kabeleingang unten
***Surface mounted housing:*** *Bottom entry*

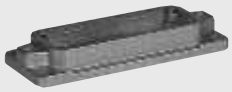


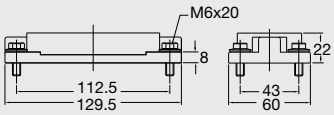

Montageausschnitt/*Panel cut-out*



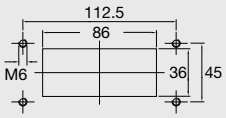

| | | | | |
|---|---|---|---|---|
| | | | **HIP** | |
| | | | HIP.16/40.AG | 1-1102656-5 |
| | | | **HIP-K** | |
| | | | HIP-K.16/40.AG | 2-1102656-5 |
| | | | **EMV-K** | |
| | | | EMV-K.16/40 AG | 4-1102728-5 |

**Anbaugehäuse:** Kabeleingang unten
***Surface mounted housing:*** *Bottom entry*






Montageausschnitt/*Panel cut-out*




| | | | | |
|---|---|---|---|---|
| | | | **HIP** | |
| | | | HIP.16/40.AG.M6 | 1-1102618-5 |
| | | | **HIP-K** | |
| | | | HIP-K.16/40.AG.M6 | 2-1102618-5 |
| | | | **EMV-K** | |
| | | | EMV-K.16/40.AG.M6 | 4-1102730-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

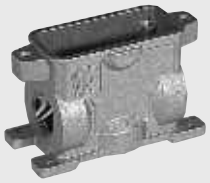
## HIP.16/40, HIP-K.16/40, EMV-K.16/40 Gehäuse/*Housings* — Baugröße/*Size 6*

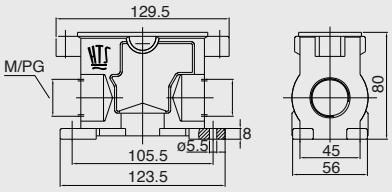
**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

## Druckdicht bis ≤ 5 bar/*pressure-tight up to 5 bar* — IP 68

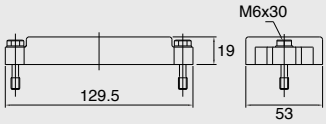
**Sockelgehäuse:** Kabeleingang seitlich
***Surface mounted housing:*** *Side entry*






| Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|
| | | **HIP** | |
| | 21 | HIP.16/40.SG.1.21.G | 1-1102616-5 |
| | 2x21 | HIP.16/40.SG.2.21.G | 1-1102617-5 |
| 2xM32 | | HIP.16/40.SG.2.M32.G | 0-1106453-1 |
| | | **HIP-K** | |
| | 21 | HIP-K.16/40.SG.1.21.G | 5-1102616-5 |
| | 2x21 | HIP-K.16/40.SG.2.21.G | 2-1102617-5 |
| 2xM32 | | HIP-K.16/40.SG.2.M32.G | 0-1106443-1 |
| | | **EMV-K** | |
| | 21 | EMV-K.16/40.SG.1.21.Z | 4-1102726-5 |
| | 2x21 | EMV-K.16/40.SG.2.21.Z | 4-1102727-5 |
| 2xM32 | | EMV-K.16/40.SG.2.M32.G | 0-1106445-2 |

**Schutzkappe für Gehäuse-Unterteile**
***Protective covers for housings***




| Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|
| **HIP** | |
| HIP/EMV.16/40.SKB | 3-1106203-5 |
| **HIP-K** | |
| HIP-K.16/40.SKB | 4-1106203-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HA.32 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 7***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**(2 x 16) 32 +** ⏚

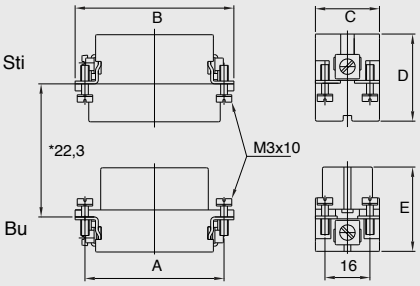
**250 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HA.16.Sti.S.B 1-16<br>HA.16.Sti.S.B 17-32 | 1-1103416-1<br>1-1103416-7 | |
| | HA.16.Bu.S.B 1-16<br>HA.16.Bu.S.B 17-32 | | 1-1103417-1<br>1-1103417-7 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HA.16.Sti.SC.B 1-16<br>HA.16.Sti.SC.B 17-32 | 7-1103416-1<br>7-1103416-7 | |
| | HA.16.Bu.SC.B 1-16<br>HA.16.Bu.SC.B 17-32 | | 7-1103417-1<br>7-1103417-7 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HA.16.STI.C.B 1-16<br>HA.16.STI.C.B 17-32 | 2-1103416-3<br>2-1103416-7 | |
| | HA.16.BU.C.B 1-16<br>HA.16.BU.C.B 17-32 | | 2-1103417-3<br>2-1103417-7 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **66** | **73** | **23** | **31** | **28** |

Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm/*Dimensions mm***




*Abstand für sichere Kontaktgabe max. 24 mm

Anschlußseite Stift
*Contact arrangement Male insert*

Anschlußseite Buchse
*Contact arrangement Female insert*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.50 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 7***

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

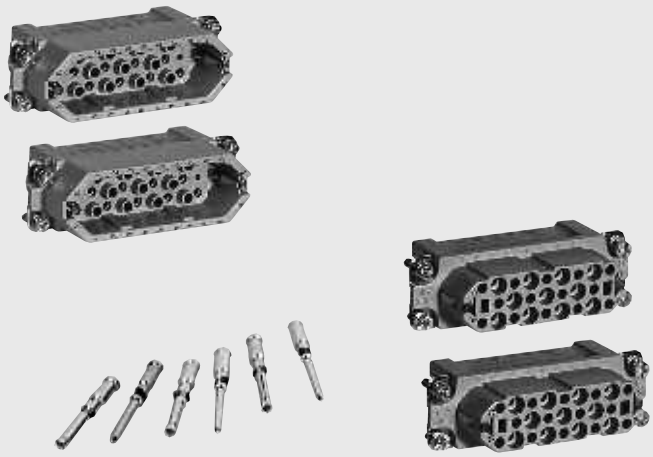
**Kontaktzahlen**
***No. of contacts***

**(2 x 25) 50 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HN.D.25.Sti.C | 2-1103108-3 | |
| | HN.D.25.Sti.C .1-25/Z* | 0-1103108-1 | |
| Buchseneinsatz/*Female insert* | HN.D.25.Bu.C | | 2-1103109-3 |
| | HN.D.25.Bu.C .1-25/Z* | | 0-1103109-1 |

Crimpanschluss/*Crimp terminal*

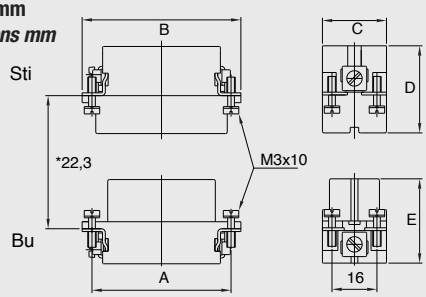


*Zusätzliche Kennzeichnung „Z“ wie in Euromap 67 hinterlegt
**Marked with „Z“ according Euromap 67*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **66** | **73** | **23** | **35** | **35** |

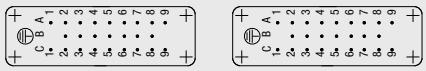
**Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34**
***Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34***

**Maßbild mm**
***Dimensions mm***

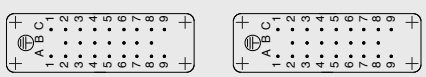



*Abstand für sichere Kontaktgabe max. 24 mm

Anschlußseite Stift
*Contact arrangement Male insert*



Anschlußseite Buchse
*Contact arrangement Female insert*





Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HD.50 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 7***

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD .Mcrimp contacts***

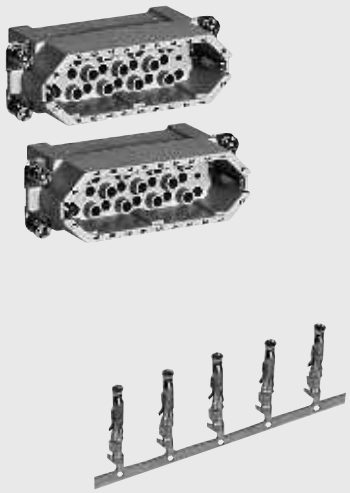
**Kontaktzahlen**
***No. of contacts***

**(2 x 25) 50 + ⏚**

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.25.Sti.C | 2-1103010-3 | |
| Buchseneinsatz/*Female insert* | HD.25.Bu.C | | 2-1103011-3 |

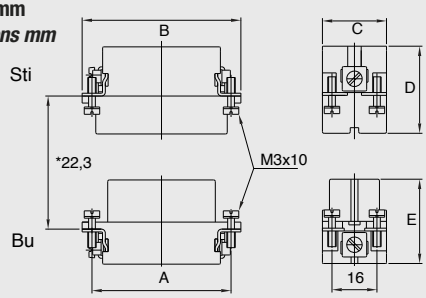
Crimpanschluss/*Crimp terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **66** | **73** | **23** | **35** | **35** |

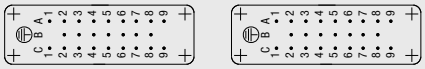
**Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35**
***Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35***

**Maßbild mm**
***Dimensions mm***

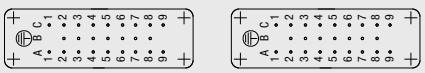



*Abstand für sichere Kontaktgabe max. 24 mm

Anschlußseite Stift
*Contact arrangement Male insert*



Anschlußseite Buchse
*Contact arrangement Female insert*



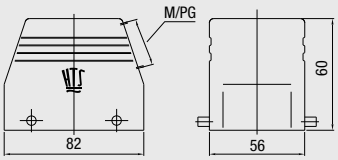
## HA.32 Gehäuse/*Housings* — Baugröße/*Size 7*

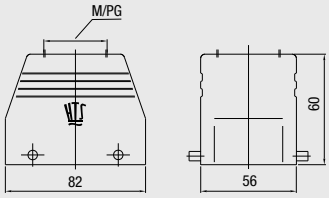
**Pulverbeschichtet, silbergrau**

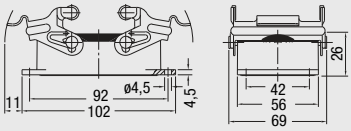
***Powder-coated, silver-grey***

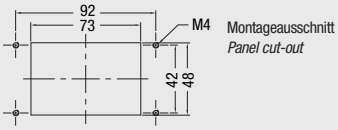
## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

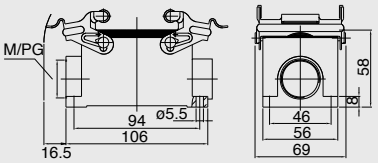
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | M25<br>M40 | 21 | HA.32.STS.1.21.G<br>HA.32.STS.1.M25.G<br>HA.32.STS.1.M40.G | 1-1102155-6<br>0-1106456-3<br>0-1106439-3 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | M32<br>M40 | 21 | HA.32.STO.1.21.G<br>HA.32.STO.1.M32.G<br>HA.32.STO.1.M40.G | 1-1102158-6<br>0-1106456-1<br>0-1106439-1 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HA.32.AG-VS | 1-1102160-1 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | 2xM25 | 21<br>2x21 | HA.32.SG-VS.1.21.Z<br>HA.32.SG-VS.2.21.Z<br>HA.32.SG-VS.2.M25.Z | 1-1102162-1<br>1-1102164-1<br>0-1106455-2 |










## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

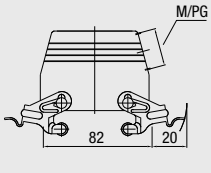
## HA.32 Gehäuse/*Housings* — Baugröße/*Size 7*

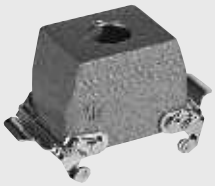
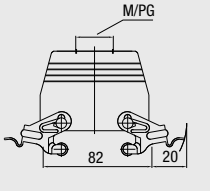
**Pulverbeschichtet, silbergrau**

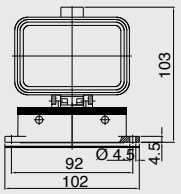
***Powder-coated, silver-grey***

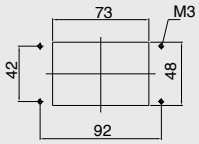
## Verschlussbügel am Oberteil/*Locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | M25<br>M40 | 21 | HA.32.STS-VS.1.21.G<br>HA.32.STS-VS.1.M25.G<br>HA.32.STS-VS.1.M40.G | 1-1102155-1<br>0-1106456-4<br>0-1106459-4 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | M32<br>M40 | 21 | HA.32.STO-VS.1.21.G<br>HA.32.STO-VS.1.M32.G<br>HA.32.STO-VS.1.M40.G | 1-1102158-1<br>0-1106456-2<br>0-1106459-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HA.32.AGD | 1-1102165-1 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | 2xM25 | 21<br>2x21 | HA.32.SGD.1.21.Z<br>HA.32.SGD.2.21.Z<br>HA.32.SGD.2.M25.Z | 1-1102167-1<br>1-1102169-1<br>0-1106455-1 |

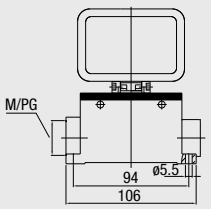


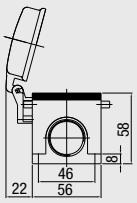







Montageausschnitt
*Panel cut-out*




## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HE.24 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 8***

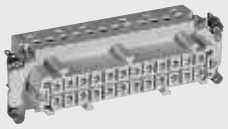
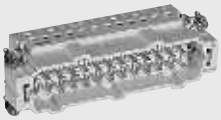
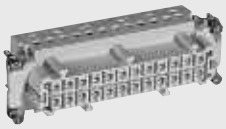
**Federzug-Anschluss, Schraubanschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Spring Clamp terminal, Screw terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**24 +** ⏚

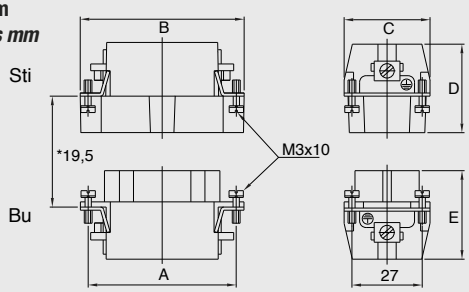
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HE.24.Sti.S.B 1-24 | 1-1103640-1 | |
|  | HE.24.Bu.S.B 1-24 | | 1-1103641-1 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
|  | HE.24.Sti.SC.B 1-24 | 7-1103640-1 | |
|  | HE.24.Bu.SC.B 1-24 | | 7-1103641-1 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HE.24.Sti.C.B 1-24 | 2-1103640-3 | |
| | HE.24.Bu.C.B 1-24 | | 2-1103641-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **34** | **35** |

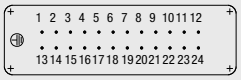
**Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37**
***Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37***

**Maßbild mm**
***Dimensions mm***

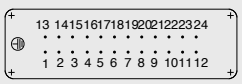



*Abstand für sichere Kontaktgabe max. 21 mm

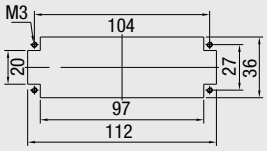
Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*




Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HEE.46 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 8*

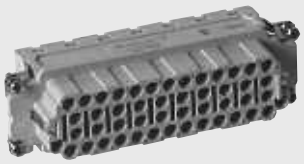
**Crimpanschluss für gedrehte HE Crimpkontakte**

***Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**46 +** ⏚

**500 V/16 A**

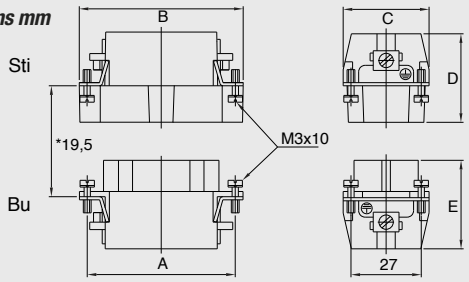
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| | HEE.46.Sti.C<br>HEE.46.Sti.C.FS* | 0-1102886-1<br>0-1102886-4 | |
| Buchseneinsatz/*Female insert* | | | |
|  | HEE.46.Bu.C<br>HEE.46.Bu.C.FS* | | 0-1102887-1<br>0-1102887-4 |

*Kunststoff ist I2F1 qualifiziert nach NF-F 16-101, 102
*Plastic is qualified I2F1 according NF-F 16-101, 102*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **34** | **37** |

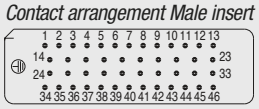
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***



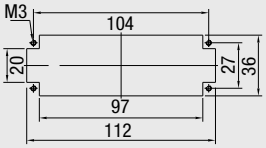

*Abstand für sichere Kontaktgabe max. 21 mm

Kontaktanordnung Anschlußseite Stift
*Contact arrangement Male insert*




Kontaktanordnung Anschlußseite Buchse
*Contact arrangement Female insert*

Montageausschnitt
*Panel cut-out*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HVT.35; HVT.48 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 8*

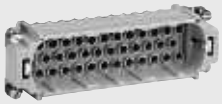
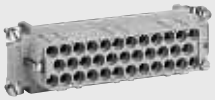
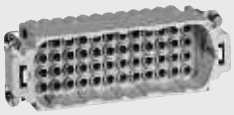
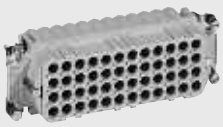
**Crimpanschluss für gedrehte HVT Crimpkontakte**

***Crimp terminal for screw machined HVT crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**35; 48 + ⏚**

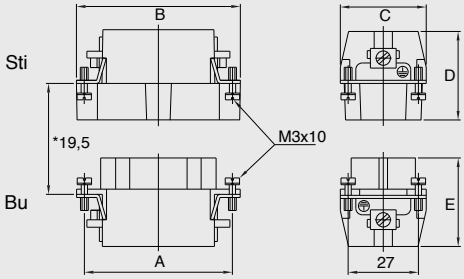
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal*  | HVT.35.Sti.C | 2-1104012-3 | |
| Buchseneinsatz/*Female insert*  | HVT.35.Bu.C | | 2-1104014-3 |
| Crimpanschluss/*Crimp terminal*  | HVT.48.Sti.C | 2-1104016-3 | |
|  | HVT.48.Bu.C | | 2-1104018-3 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **35** | **40** |

**Passende Crimpkontakte siehe Seite 38, Passende Crimpwerkzeuge siehe Seite 38**
***Suitable Crimp contacts see page 38, Suitable Crimping tools see page 38***

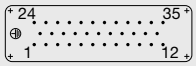
**Maßbild mm/*Dimensions mm***



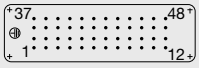

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*

HVT.35

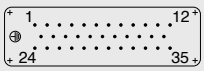



HVT.48



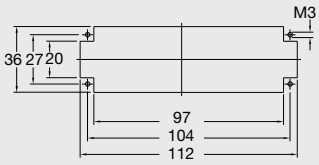

Anschlußseite Buchse/*Contact arrangement Female insert*

HVT.35




HVT.48

Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.64; HN.2D.108 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 8***

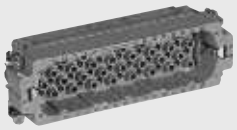
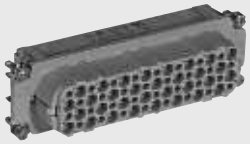
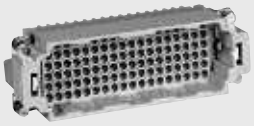
**Crimpanschluss für gedrehte HN.D Crimpkontakte**

***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**64; 108 + ⏚**

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal*  | HN.D.64.Sti.C | 2-1103112-3 | |
| Buchseneinsatz/*Female insert*  | HN.D.64.Bu.C | | 2-1103113-3 |
| Crimpanschluss/*Crimp terminal*  | HN.2D.108.Sti.C | 2-1103216-3 | |
| | HN.2D.108.Bu.C | | 2-1103220-3 |

HN.D.64

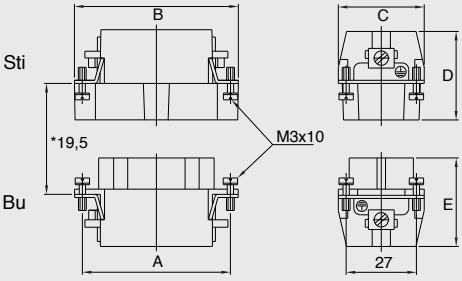
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **35** | **35** |

HN.2D.108

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **34** | **36,5** | **37** |

**Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34**
***Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34***

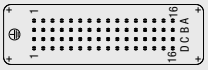
**Maßbild mm/*Dimensions mm***




*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*

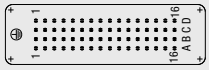
HN.D.64




HN.2D.108

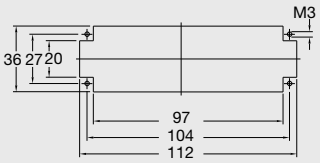
Anschlußseite Buchse/*Contact arrangement Female insert*

HN.D.64




HN.2D.108

Montageausschnitt
*Panel cut-out*



## HD.64 Kontakteinsätze/*Contact inserts*

## Baugröße/*Size 8*

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD.M crimp contacts***

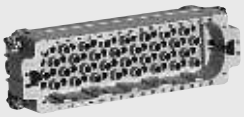
**Kontaktzahlen**
***No. of contacts***

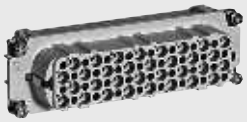
**64 +** ⏚

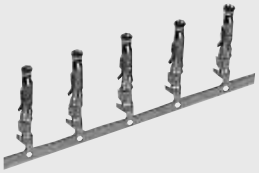
**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | HD.64.Sti.C | 2-1103032-3 | |
| Buchseneinsatz/*Female insert* | HD.64.Bu.C | | 2-1103033-3 |

Crimpanschluss/*Crimp terminal*



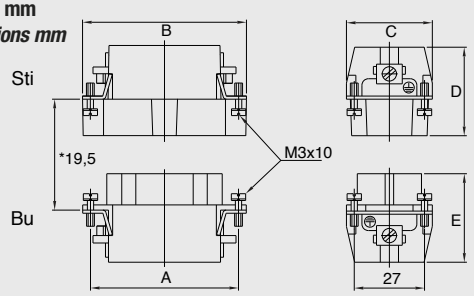




| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **35** | **35** |

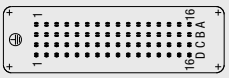
Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

**Maßbild mm**
***Dimensions mm***



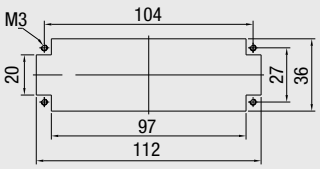

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*

Montageausschnitt
*Panel cut-out*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HSS.8/2; HMX4/8 Kontakteinsätze/*Contact inserts* — Baugröße/*Size 8*

**Crimpanschluss, Schraubanschluss**

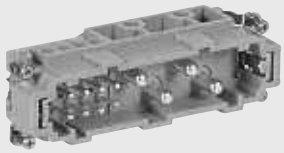
***Crimp terminal, Screw terminal***

**Kontaktzahlen**
***No. of contacts***

**8 + 2; 4 + 8**

**600 V/63 A; 400 V/16 A; 380 V/80 A; 380 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Crimpanschluss/*Crimp terminal* | HSS.8/2.Sti.C | 2-1104200-3 | |
| Buchseneinsatz/*Female insert* — Crimpanschluss/*Crimp terminal* | HSS.8/2.Bu.C | | 2-1104202-3 |
| Stifteinsatz/*Male insert* — Schraubanschluss/*Screw terminal* | HMX.4/8.Sti.S | 0-1103148-1 | |
| Buchseneinsatz/*Female insert* — Schraubanschluss/*Screw terminal* | HMX.4/8.Bu.S | | 0-1103149-1 |



HSS.8/2

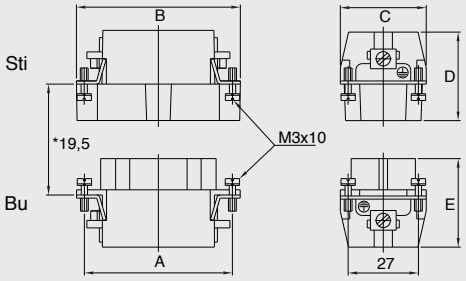
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **40** | **43,5** |

HMX4/8

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **34** | **42** | **44** |

**Passende Crimpkontakte siehe Seite 38 (Steuerkontakt), Seite 41 (Lastkontakt), Passende Crimpwerkzeuge siehe Seite 41**
***Suitable Crimp contacts see page 38 (signal contact), page 41 (power contact), Suitable Crimping tools see page 41***

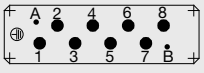
**Maßbild mm/*Dimensions mm***



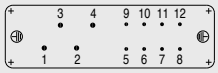

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*

HSS.8/2

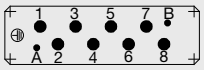



HE-K.4/8

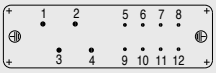



Anschlußseite Buchse/*Contact arrangement Female insert*

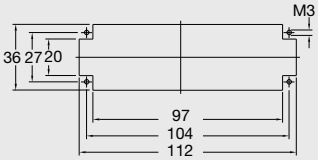
HSS.8/2



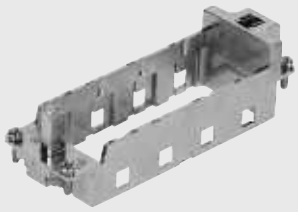
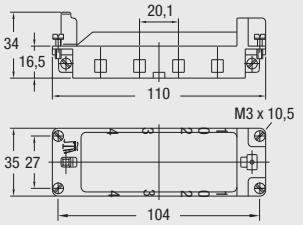
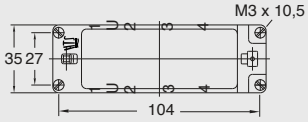
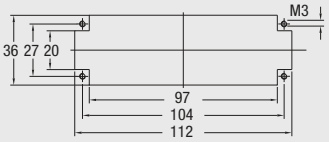
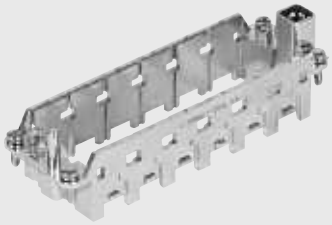
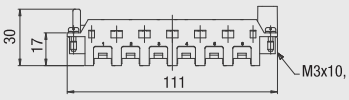
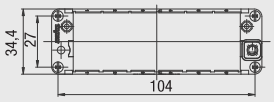
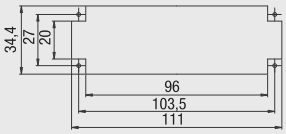

HE-K.4/8




Montageausschnitt
*Panel cut-out*



## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 8*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
|  | | | |
|   | MDL2-GR.O-8/B.1-4 | 0-1108780-1 | |
| Für Modul MDL Seite 194–203 *For module MDL page 194–203* | | | |
|   | MDL2-GR.U-8/B.1-4 | | 0-1108780-2 |
| Montageausschnitt/*Panel cut-out* | | | |
|   | | | |
| Halterahmen/*Fixing frame* | | | |
|  | | | |
|   | HVS-R.O 1-6 HVS-R.U 1-6 | 0-1103250-1 | 0-1103250-2 |
| Für Modul HVS Seite 204–212 *For module HVS page 204–212* | | | |
|   | | | |
| Montageausschnitt/*Panel cut-out* | | | |
|   | | | |



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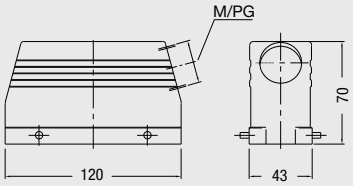
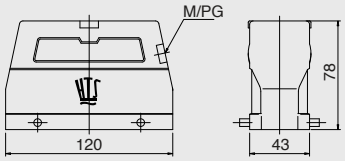
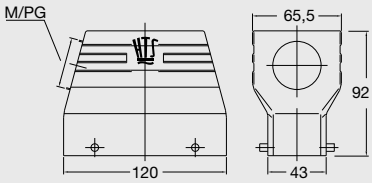
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB/-K.24, HD/-K.64, HD/-K.108 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | | 21 | HB.24.STS.1.21.G | 1-1102316-6 |
| | | 29 | HB.24.STS.1.29.G | 1-1102319-6 |
| | M32 | | HB.24.STS.1.M32.G | 0-1106465-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.STS.1.21 G | 2-1102316-6 |
| | | 29 | HB-K.24.STS.1.29 G | 2-1102319-6 |
| | M32 | | HB-K.24.STS.1.M32.G | 1-1106465-1 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 21 | HD.64.STS.1.21.G | 1-1103336-6 |
| | | 29 | HD.64.STS.1.29.G | 1-1103338-6 |
| | M32 | | HD.64.STS.1.M32.G | 0-1106470-4 |
| | M40 | | HD.64.STS.1.M40.G | 1-1106470-9 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.64.STS.1.21.G | 2-1103336-6 |
| | | 29 | HD-K.64.STS.1.29.G | 2-1103338-6 |
| | M32 | | HD-K.64.STS.1.M32.G | 1-1106470-0 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 29 | HD.108.STS.1.29.G | 1-1102411-6 |
| | M50 | | HD.108.STS.1.M50.G | 0-1106467-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.108.STS.1.29.G | 2-1102411-6 |
| | M50 | | HD-K.108.STS.1.M50.G | 1-1106467-0 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB/-K.24, HD/-K.64, HD/-K.108 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
| | | 21 | HB.24.STO.1.21.G | 1-1102325-6 |
| | | 29 | HB.24.STO.1.29.G | 1-1102328-6 |
| | M32 | | HB.24.STO.1.M32.G | 0-1106465-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.STO.1.21.G | 2-1102325-6 |
| | | 29 | HB-K.24.STO.1.29.G | 2-1102328-6 |
| | M32 | | HB-K.24.STO.1.M32.G | 0-1106465-7 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
| | | 21 | HD.64.STO.1.21.G | 1-1103341-6 |
| | | 29 | HD.64.STO.1.29.G | 1-1103344-6 |
| | M32 | | HD.64.STO.1.M32.G | 0-1106470-1 |
| | M40 | | HD.64.STO.1.M40.G | 3-1106470-0 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.64.STO.1.21.G | 2-1103341-6 |
| | | 29 | HD-K.64.STO.1.29.G | 2-1103344-6 |
| | M32 | | HD-K.64.STO.1.M32.G | 0-1106470-7 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
| | | 36 | HD.108.STO.1.36.G | 1-1102414-6 |
| | M50 | | HD.108.STO.1.M50.G | 0-1106467-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 36 | HD-K.108.STO.1.36.G | 2-1102414-6 |
| | M50 | | HD-K.108.STO.1.M50.G | 0-1106467-7 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | HB.24.AG-VS | 1-1102291-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.24.AG-VS | 2-1102291-1 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



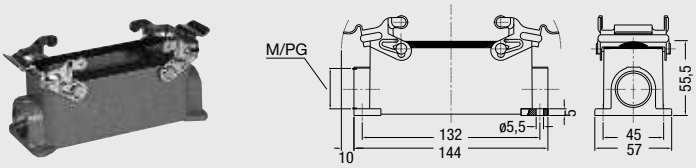
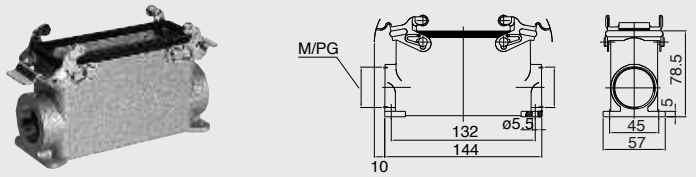
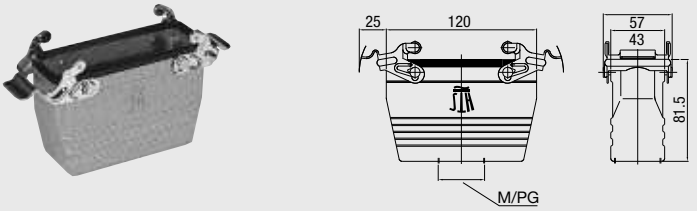
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.24, HB-K.24, HD.64, HD-K.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|  | M25 | 21 | HB.24.SG-VS.1.21.Z | 1-1102331-1 |
| | | 2x21 | HB.24.SG-VS.2.21.Z | 1-1102333-1 |
| | | | HB.24.SG-VS.1.M25.Z | 0-1103061-1 |
| | 2xM25 | | HB.24.SG-VS.2.M25.Z | 0-1106464-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.SG-VS.1.21.Z | 2-1102331-1 |
| | | 2x21 | HB-K.24.SG-VS.2.21.Z | 2-1102333-1 |
| | 2xM25 | | HB-K.24.SG-VS.2.M25.G | 0-1106464-8 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|  | | 21 | HD.64.SG-VS.1.21.Z | 1-1103346-1 |
| | | 2x21 | HD.64.SG-VS.2.21.Z | 1-1103348-1 |
| | | 29 | HD.64.SG-VS.1.29.Z | 1-1103350-1 |
| | | 2x29 | HD.64.SG-VS.2.29.Z | 1-1103352-1 |
| | M25 | | HD.64.SG-VS.1.M25.G | 0-1103083-1 |
| | 2xM32 | | HD.64.SG-VS.2.M32.G | 0-1106469-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HD-K.64.SG-VS.1.21.Z | 2-1103346-1 |
| | | 2x21 | HD-K.64.SG-VS.2.21.Z | 2-1103348-1 |
| | | 29 | HD-K.64.SG-VS.1.29.Z | 2-1103350-1 |
| | | 2x29 | HD-K.64.SG-VS.2.29.Z | 2-1103352-1 |
| | 2xM32 | | HD-K.64.SG-VS.2.M32.G | 0-1106469-8 |
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | | | | |
|  | | 21 | HD.64.KDO-VS.1.21.G | 1-1103355-1 |
| | | 29 | HD.64.KDO-VS.1.29.G | 1-1103358-1 |
| | M32 | | HD.64.KDO-VS.1.M32.G | 0-1106468-2 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

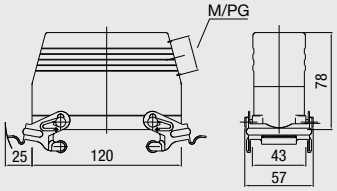
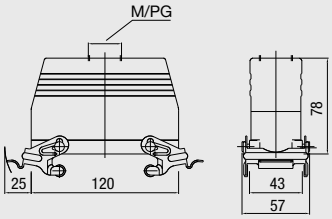
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.24, HB-K.24, HD.64, HD-K.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 21 | HD.64.STS-VS.1.21.G | 1-1103336-1 |
| | | 29 | HD.64.STS-VS.1.29.G | 1-1103338-1 |
| | M32 | | HD.64.STS-VS.1.M32.G | 0-1106470-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.STS-VS.1.29.G | 2-1103338-1 |
| | M32 | | HD-K.64.STS-VS.1.M32.G | 1-1106470-2 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
|   | | 21 | HD.64.STO-VS.1.21.G | 1-1103341-1 |
| | | 29 | HD.64.STO-VS.1.29.G | 1-1103344-1 |
| | M32 | | HD.64.STO-VS.1.M32.G | 0-1106470-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.STO-VS.1.29.G | 2-1103344-1 |
| | M32 | | HD-K.64.STO-VS.1.M32.G | 0-1106470-9 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



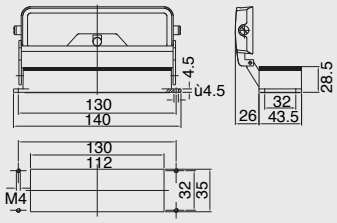
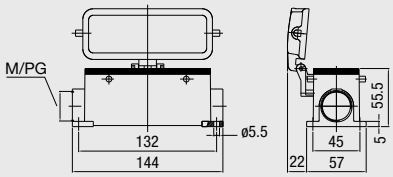
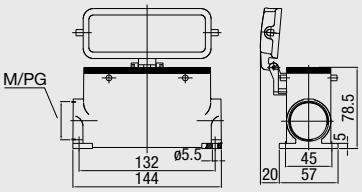
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.24, HB-K.24, HD.64, HD-K.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|   | | | HB.24.AGD | 1-1102340-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.24.AGD | 2-1102340-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | | 21 | HB.24.SGD.1.21.Z | 1-1102343-6 |
| | | 2x21 | HB.24.SGD.2.21.Z | 1-1102345-6 |
| | M25 | | HB.24.SGD.1.M25.Z | 0-1103061-2 |
| | 2xM25 | | HB.24.SGD.2.M25.Z | 0-1106464-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.SGD.1.21.Z | 2-1102343-6 |
| | 2xM25 | | HB-K.24.SGD.2.M25.Z | 0-1106464-5 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|   | | 21 | HD.64.SGD.1.21.Z | 1-1103360-6 |
| | | 2x21 | HD.64.SGD.2.21.Z | 1-1103362-6 |
| | | 29 | HD.64.SGD.1.29.Z | 1-1103364-6 |
| | | 2x29 | HD.64.SGD.2.29.Z | 1-1103366-6 |
| | 2xM32 | | HD.64.SGD.2.M32.Z | 0-1106469-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.SGD.1.29.Z | 2-1103364-6 |
| | 2xM32 | | HD-K.64.SGD.2.M32.Z | 0-1106469-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

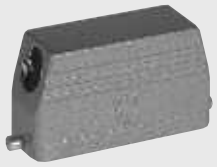
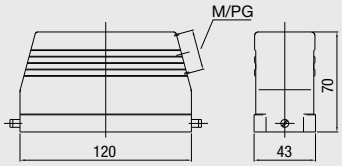
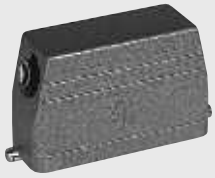
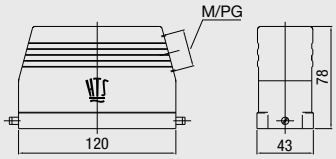
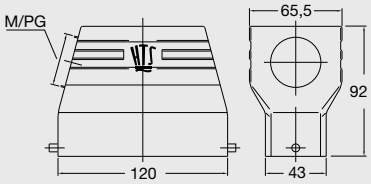
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB/-K.24, HD/-K.64, HD/-K.108 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|    | | 21 | HB.24.STS-GR.1.21.G | 1-1102316-7 |
| | | 29 | HB.24.STS-GR.1.29.G | 1-1102319-7 |
| | M32 | | HB.24.STS-GR.1.M32.G | 0-1106465-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.STS-GR.1.21.G | 2-1102316-7 |
| | | 29 | HB-K.24.STS-GR.1.29.G | 2-1102319-7 |
| | M32 | | HB-K.24.STS-GR.1.M32.G | 1-1106465-2 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|    | | 21 | HD.64.STS-GR.1.21.G | 1-1103336-7 |
| | | 29 | HD.64.STS-GR.1.29.G | 1-1103338-7 |
| | M32 | | HD.64.STS-GR.1.M32.G | 0-1106470-5 |
| | M40 | | HD.64.STS-GR.1.M40.G | 3-1106470-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.STS-GR.1.29.G | 2-1103338-7 |
| | M32 | | HD-K.64.STS-GR.1.M32.G | 1-1106470-1 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | | 29 | HD.108.STS-GR.1.29.G | 1-1102411-7 |
| | M50 | | HD.108.STS-GR.1.M50.G | 0-1106467-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.108.STS-GR.1.29.G | 2-1102411-7 |
| | M50 | | HD-K.108.STS-GR.1.M50.G | 1-1106467-1 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

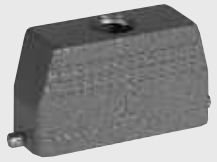
## HB.24, HB-K.24, HD.64, HD-K.64 Gehäuse/*Housings* — Baugröße/*Size 8*

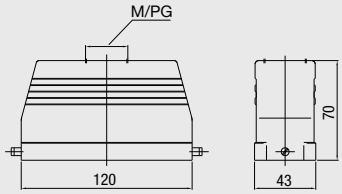
**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

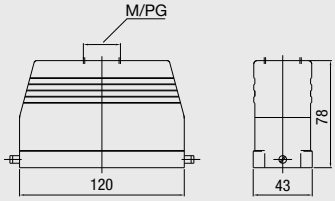
***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

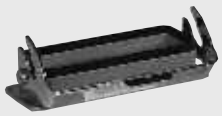
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

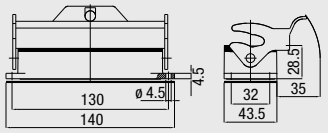
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
| | | 21 | HB.24.STO-GR.1.21.G | 1-1102325-7 |
| | | 29 | HB.24.STO-GR.1.29.G | 1-1102328-7 |
| | M32 | | HB.24.STO-GR.1.M32.G | 0-1106465-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HB-K.24.STO-GR.1.29.G | 2-1102328-7 |
| | M32 | | HB-K.24.STO-GR.1.M32.G | 0-1106465-8 |
| **Steckergehäuse:** Kabeleingang oben, Hohe Bauform<br>***Hood:*** *Top entry, High construction* | | | | |
| | | 21 | HD.64.STO-GR.1.21.G | 1-1103341-7 |
| | | 29 | HD.64.STO-GR.1.29.G | 1-1103344-7 |
| | M32 | | HD.64.STO-GR.1.M32.G | 0-1106470-2 |
| | M40 | | HD.64.STO-GR.1.M40.G | 2-1106470-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.STO-GR.1.29.G | 2-1103344-7 |
| | M32 | | HD-K.64.STO-GR.1.M32.G | 0-1106470-8 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | HB.24.AG-LB | 1-1102291-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.24.AG-LB | 2-1102291-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | HB.24.AGD-LB | 1-1102340-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.24.AGD-LB | 2-1102340-2 |

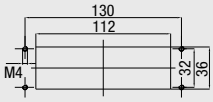




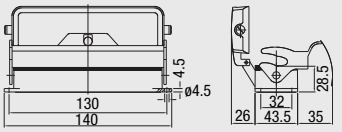


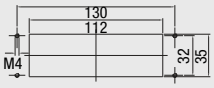






Montageausschnitt
*Panel cut-out*




Montageausschnitt
*Panel cut-out*

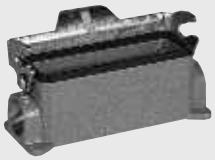
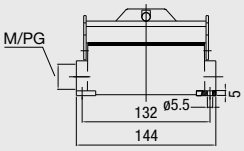
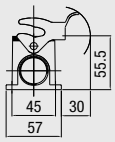
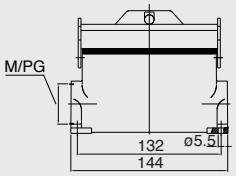
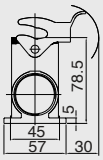
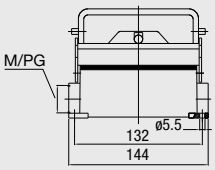
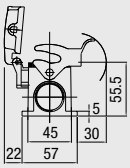
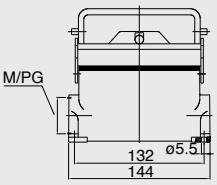
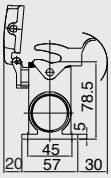
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB.24, HB-K.24, HD.64, HD-K.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|      | 2xM25 | 21 | HB.24.SG-LB.1.21.Z | 1-1102331-2 |
| | | 2x21 | HB.24.SG-LB.2.21.Z | 1-1102333-2 |
| | | | HB.24.SG-LB.2.M25.G | 0-1106464-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.SG-LB.1.21.Z | 2-1102331-2 |
| | 2xM25 | | HB-K.24.SG-LB.2.M25.G | 0-1106464-7 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|     | | 21 | HD.64.SG-LB.1.21.Z | 1-1103346-2 |
| | | 2x21 | HD.64.SG-LB.2.21.Z | 1-1103348-2 |
| | | 29 | HD.64.SG-LB.1.29.Z | 1-1103350-2 |
| | | 2x29 | HD.64.SG-LB.2.29.Z | 1-1103352-2 |
| | 2xM32 | | HD.64.SG-LB.2.M32.Z | 0-1106469-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.SG-LB.1.29.Z | 2-1103350-2 |
| | 2xM32 | | HD-K.64.SG-LB.2.M32.G | 0-1106469-7 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|     | | 21 | HB.24.SGD-LB.1.21.Z | 1-1102343-2 |
| | | 2x21 | HB.24.SGD-LB.2.21.Z | 1-1102345-2 |
| | M25 | | HB.24.SGD-LB.1.M25.Z | 0-1103061-3 |
| | 2xM25 | | HB.24.SGD-LB.2.M25.Z | 0-1106464-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K.24.SGD-LB.1.21.Z | 2-1102343-2 |
| | 2xM25 | | HB-K.24.SGD-LB.2.M25.z | 0-1106464-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|     | | 21 | HD.64.SGD-LB.1.21.Z | 1-1103360-2 |
| | | 2x21 | HD.64.SGD-LB.2.21.Z | 1-1103362-2 |
| | | 29 | HD.64.SGD-LB.1.29.Z | 1-1103364-2 |
| | | 2x29 | HD.64.SGD-LB.2.29.Z | 1-1103366-2 |
| | 2xM32 | | HD.64.SGD-LB.2.M32.Z | 0-1106469-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K.64.SGD-LB.1.29.Z | 2-1103364-2 |
| | 2xM32 | | HD-K.64.SGD-LB.2.M32.z | 0-1106469-6 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

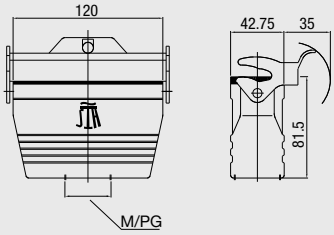
## HB.24, HB-K.24, HD.64, HD-K.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Kupplungsgehäuse:** Kabeleingang unten, Hohe Bauform<br>***Cable-to-cable hood:*** *Bottom entry, High construction* | M32 | 21<br>29 | HD.64.KDO-LB.1.21.G<br>HD.64.KDO-LB.1.29.G<br>HD.64.KDO-LB.1.M32.G | 1-1103355-2<br>1-1103358-2<br>0-1106468-1 |



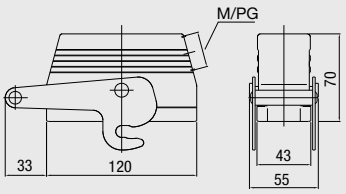
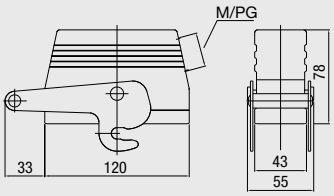
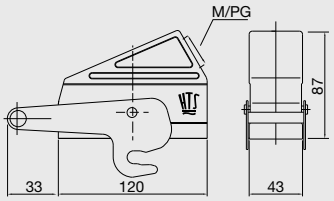
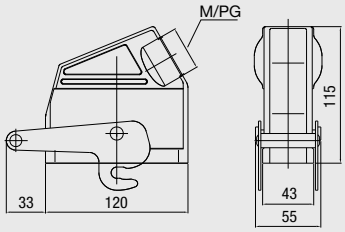

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB-Z.24, HB-K/Z.24, HD-Z.64, HD-K/Z.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M32 | 21 | HB-Z.24.STS-ZB.1.21.G | 1-1102316-3 |
| | | 29 | HB-Z.24.STS-ZB.1.29.G | 1-1102319-3 |
| | | | HB-Z.24.STS-ZB.1.M32.G | 1-1106465-9 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 29 | HB-K/Z.24.STS-ZB.1.21.G | 2-1102316-3 |
| | | | HB-K/Z.24.STS-ZB.1.M32.G | 1-1106465-5 |
| **Steckergehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | M32 | 21 | HD-Z.64.STS-ZB.1.21.G | 1-1103336-3 |
| | | 29 | HD-Z.64.STS-ZB.1.29.G | 1-1103338-3 |
| | | | HD-Z.64.STS-ZB.1.M32.G | 1-1106470-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 29 | HD-K/Z.64.STS-ZB.1.29.G | 2-1103338-3 |
| | | | HD-K/Z.64.STS-ZB.1.M32.G | 1-1106470-6 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M32 | 21 | HB-KF-Z.24.STS-ZB.1.21.G | 1-1102229-3 |
| | | 29 | HB-KF-Z.24.STS-ZB.1.29.G | 1-1102232-3 |
| | | | HB-KF-Z.24.STS-ZB.1.M32.G | 0-1106466-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M32 | 29 | HB-KF/K-Z.24.STS-ZB.1.29.G | 2-1102232-3 |
| | | | HB-KF/K-Z.24.STS-ZB.1.M32.G | 0-1106466-7 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, High construction* | | | | |
|   | M40 | 29 | HD-KF-Z.64.STS-ZB.1.29.G | 1-1102405-3 |
| | | 36 | HD-KF-Z.64.STS-ZB.1.36.G | 1-1102408-3 |
| | | | HD-KF-Z.64.STS-ZB.1.M40.G | 0-1106471-9 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 36 | HD-KF/K-Z.64.STS-ZB.1.36.G | 2-1102408-3 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***



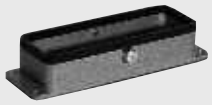
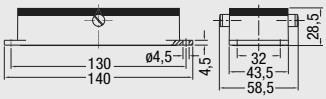
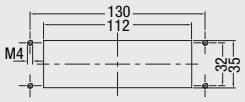
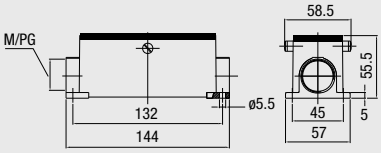
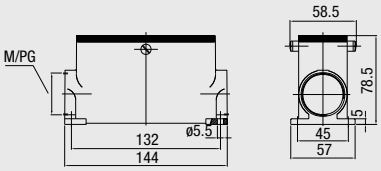
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB-Z.24, HB-K/Z.24, HD-Z.64, HD-K/Z.64 Gehäuse/*Housings* — Baugröße/*Size 8*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|    | | | HB-Z.24.AG-ZVGR | 1-1102291-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K/Z.24.AG-ZVGR | 2-1102291-8 |
| Montageausschnitt/*Panel cut-out*   | | | | |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | 2xM25 | 21 | HB-Z.24.SG-ZVGR.1.21.Z | 1-1102331-8 |
| | | 2x21 | HB-Z.24.SG-ZVGR.2.21.Z | 1-1102333-8 |
| | | | HB-Z.24.SG-ZVGR.2.M25.G | 1-1106464-0 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 21 | HB-K/Z.24.SG-ZVGR.1.21.Z | 2-1102331-8 |
| **Sockelgehäuse:** Kabeleingang seitlich, Hohe Bauform<br>***Surface mounted housing:*** *Side entry, High construction* | | | | |
|   | 2xM32 | 21 | HD-Z.64.SG-ZVGR.1.21.Z | 1-1103346-8 |
| | | 29 | HD-Z.64.SG-ZVGR.1.29.Z | 1-1103350-8 |
| | | 2x29 | HD-Z.64.SG-ZVGR.2.29.Z | 1-1103352-8 |
| | | | HD-Z.64.SG-ZVGR.2.M32.G | 1-1106469-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 29 | HD-K/Z.64.SG-ZVGR.1.29.Z | 2-1103350-8 |
| | | 2x29 | HD-K/Z.64.SG-ZVGR.2.29 Z | 2-1103352-8 |
| | 2xM32 | | HD-K/Z.64.SG-ZVGR.2.M32.G | 1-1106469-0 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

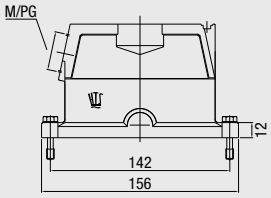
## HIP.24/64, HIP-K.24/64, EMV-K.24/64 Gehäuse/*Housings* — Baugröße/*Size 8*

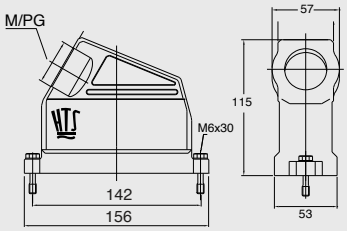
**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

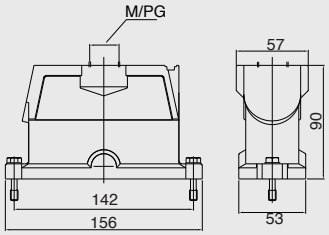
***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

## Druckdicht bis ≤ 5 bar/*pressure-tight up to 5 bar* — IP 68

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
| | | | **HIP** | |
| | | 21 | HIP.24/64.STS.1.21.G | 1-1102658-5 |
| | | 29 | HIP.24/64.STS.1.29 G | 1-1102660-5 |
| | M40 | | HIP.24/64.STS.1.M40.G | 0-1106473-2 |
| | | | **HIP-K** | |
| | | 29 | HIP-K.24/64.STS.1.29.G | 2-1102660-5 |
| | M40 | | HIP-K.24/64.STS.1.M40.G | 0-1106473-4 |
| | | | **EMV-K** | |
| | | 29 | EMV-K.24/64.STS.1.29.G | 4-1102755-5 |
| | M25 | | EMV-K.24/64.STS.1.M25.G | 0-1102983-1 |
| | M32 | | EMV-K.24/64.STS.1.M32.G | 0-1106461-8 |
| | M40 | | EMV-K.24/64.STS.1.M40.G | 0-1106461-3 |
| **Steckergehäuse:** Kabeleingang seitlich, Keilform<br>***Hood:*** *Side entry, Standard construction* | | | | |
| | | | **HIP** | |
| | | 29 | HIP-KF.24/64.STS.1.29.G | 1-1102622-5 |
| | | 36 | HIP-KF.24/64.STS.1.36.G | 1-1102623-5 |
| | M40 | | HIP-KF.24/64.STS.1.M40.G | 0-1106474-1 |
| | | | **HIP-K** | |
| | | 29 | HIP-KF/K.24/64.STS.1.29.G | 2-1102622-5 |
| | | 36 | HIP-KF/K.24/64.STS.1.36G | 2-1102623-5 |
| | M40 | | HIP-KF/K.24/64.STS.1.M40.G | 0-1106474-2 |
| | | | **EMV-K** | |
| | | 29 | EMV-KF/K.24/64.STS.1.29.G | 4-1102732-5 |
| | | 36 | EMV-KF/K.24/64.STS.1.36.G | 4-1102733-5 |
| | M40 | | EMV-KF/K.24/64.STS.1.M40.G | 0-1106462-2 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
| | | | **HIP** | |
| | | 21 | HIP.24/64.STO.1.21.G | 1-1102662-5 |
| | | 29 | HIP.24/64.STO.1.29.G | 1-1102664-5 |
| | M40 | | HIP.24/64.STO.1.M40.G | 0-1106473-1 |
| | | | **HIP-K** | |
| | | 29 | HIP-K.24/64.STO.1.29.G | 2-1102664-5 |
| | 2xM32 | | HIP-K.24/64.STO.2.M32.G | 0-1102792-1 |
| | M40 | | HIP-K.24/64.STO.1.M40.G | 0-1106473-3 |
| | | | **EMV-K** | |
| | | 29 | EMV-K.24/64.STO.1.29.G | 4-1102759-5 |
| | M40 | | EMV-K.24/64.STO.1.M40.G | 0-1106461-4 |








## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HIP.24/64, HIP-K.24/64, EMV-K.24/64 Gehäuse/*Housings* — Baugröße/*Size 8*

**HIP: Druckdicht, silbergrau, HIP-K: Korrosionsgeschützt, schwarz**
**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**

***HIP: Pressure-tight, silver-grey, HIP-K: Housings corrosion-resistant, black***
***EMV-K: Protection against electro-magnetic interference, pressure-tight, housings corrosion-resistant, black***

## Druckdicht bis ≤ 5 bar/*pressure-tight up to 5 bar* — IP 68

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | **HIP** | |
| | | | HIP.24/64.AG | 1-1102665-5 |
| | | | **HIP-K** | |
| | | | HIP-K.24/64.AG | 2-1102665-5 |
| | | | **EMV-K** | |
| | | | EMV-K.24/64.AG | 4-1102760-5 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
| | | | **HIP** | |
| | | | HIP.24/64.AG.M6 | 1-1102626-5 |
| | | | **HIP-K** | |
| | | | HIP-K.24/64.AG.M6 | 2-1102626-5 |
| | | | HIP-K.24/64.AG.M6.D | 2-1102628-5 |
| | | | HIP-K-I.24/64.AG.M6.D | 0-1108533-1 |
| | | | **EMV-K** | |
| | | | EMV-K.24/64.AG.M6 | 4-1102736-5 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
| | | | **HIP** | |
| | | 29 | HIP.24/64.SG.1.29.G | 1-1102624-5 |
| | | 2x29 | HIP.24/64.SG.2.29.G | 1-1102625-5 |
| | 2xM40 | | HIP.24/64.SG.2.M40.G | 0-1106472-1 |
| | | | **HIP-K** | |
| | | 29 | HIP-K.24/64.SG.1.29.G | 5-1102624-5 |
| | | 2x29 | HIP-K.24/64.SG.2.29.G | 2-1102625-5 |
| | 2xM40 | | HIP-K.24/64.SG.2.M40.G | 0-1106472-2 |
| | | | **EMV-K** | |
| | | 29 | EMV-K.24/64.SG.1.29.G | 4-1102734-5 |
| | | 2x29 | EMV-K.24/64.SG.2.29.G | 4-1102735-5 |
| | 2xM40 | | EMV-K.24/64.SG.2.M40.G | 0-1106460-2 |
| **Schutzkappe für Gehäuse-Unterteile**<br>***Protective covers housings*** | | | | |
| | | | **HIP** | |
| | | | HIP/EMV.24/64.SKB | 3-1106204-5 |
| | | | **HIP-K/EMV-K** | |
| | | | HIP-K/EMV-K.24/64.SKB | 4-1106204-5 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HA.48 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 9***

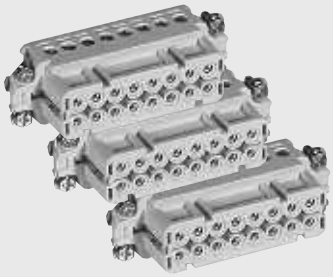
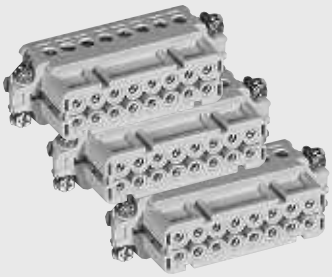
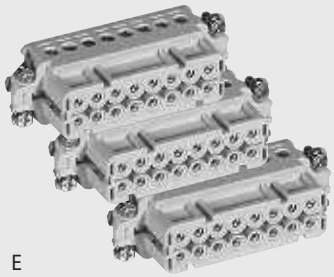
**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE/HA Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE/HA crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**(3 x 16) 48 +** ⏚

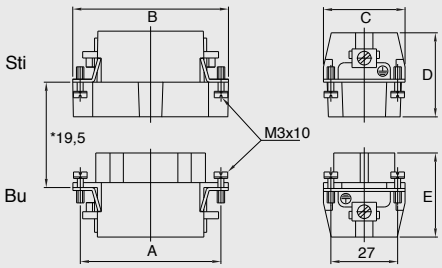
**250 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* / Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
|  | HA.16.Sti.S.B 1-16<br>HA.16.Sti.S.B 17-32<br>HA.16.Sti.S.B 33-48 | 1-1103416-1<br>1-1103416-7<br>1-1103416-8 | |
| | HA.16.Bu.S.B 1-16<br>HA.16.Bu.S.B 17-32<br>HA.16.Bu.S.B 33-48 | | 1-1103417-1<br>1-1103417-7<br>1-1103417-8 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
|  | HA.16.Sti.SC.B 1-16<br>HA.16.Sti.SC.B 17-32<br>HA.16.Sti.SC.B 33-48 | 7-1103416-1<br>7-1103416-7<br>7-1103416-8 | |
| | HA.16.Bu.SC.B 1-16<br>HA.16.Bu.SC.B 17-32<br>HA.16.Bu.SC.B 33-48 | | 7-1103417-1<br>7-1103417-7<br>7-1103417-8 |
| Crimpanschluss/*Crimp terminal* | | | |
|  | HA.16.Sti.C.B 1-16<br>HA.16.Sti.C.B 17-32<br>HA.16.Sti.C.B 33-48 | 2-1103416-3<br>2-1103416-7<br>2-1103416-8 | |
| | HA.16.Bu.C.B 1-16<br>HA.16.Bu.C.B 17-32<br>HA.16.Bu.C.B 33-48 | | 2-1103417-3<br>2-1103417-7<br>2-1103417-8 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **34** | **35** |

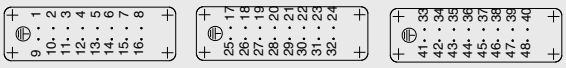
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm/*Dimensions mm***

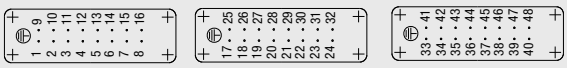



*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HA.48 Gehäuse/*Housings* — Baugröße/*Size 9*

**Pulverbeschichtet, silbergrau**

***Powder-coated, silver-grey***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | M32 | 29 | HA.48.STS-GR.1.29.G<br>HA.48.STS-GR.1.M32.G | 1-1102172-7<br>0-1102877-1 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | M32 | 29 | HA.48.STO-GR.1.29.G<br>HA.48.STO-GR.1.M32.G | 1-1102175-7<br>0-1102877-2 |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing:*** *Bottom en* | | | HA.48.AG-LB | 1-1102176-2 |
| **Anbaugehäuse:** Kabeleingang unten<br>***Surface mounted housing with covers:*** *Bottom entry* | | | HA.48.AGD-LB | 1-1102177-2 |

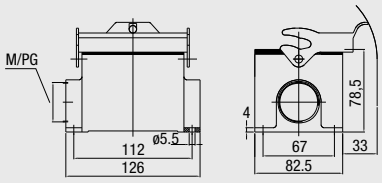
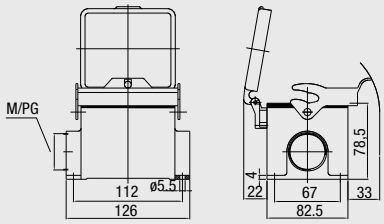
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HA.48 Gehäuse/*Housings* — Baugröße/*Size 9*

**Pulverbeschichtet, silbergrau**

***Powder-coated, silver-grey***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction*<br>   | | 29<br>2x29 | HA.48.SG-LB.1.29.Z<br>HA.48.SG-LB.2.29.Z | 1-1102179-2<br>1-1102181-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction*<br>   | M32<br>2xM32 | 29<br>2x29 | HA.48.SGD-LB.1.29.Z<br>HA.48.SGD-LB.2.29.Z<br>HA.48.SGD-LB.1.M32.G<br>HA.48.SGD-LB.2.M32.G | 1-1102183-2<br>1-1102185-2<br>0-1102879-1<br>0-1102879-2 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HE.32 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 10***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**(2 x 16) 32 +** ⏚

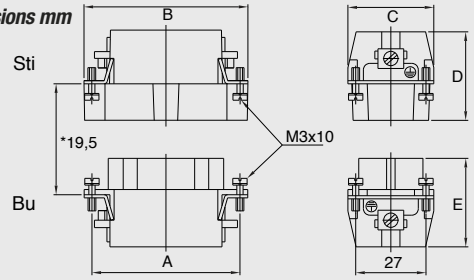
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* / Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HE.16.Sti.S.B 1-16<br>HE.16.Sti.S.B 17-32 | 1-1103638-1<br>1-1103638-9 | |
| | HE.16.Bu.S.B 1-16<br>HE.16.Bu.S.B 17-32 | | 1-1103639-1<br>1-1103639-9 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HE.16.STI.SC.B. 1-16<br>HE.16.STI.SC.B.17-32 | 7-1103638-1<br>7-1103638-9 | |
| | HE.16.BU.SC.B. 1-16<br>HE.16.BU.SC.B.17-32 | | 7-1103639-1<br>7-1103639-9 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HE.16.Sti.C.B 1-16<br>HE.16.Sti.C.B 17-32 | 2-1103638-3<br>2-1103638-9 | |
| | HE.16.Bu.C.B 1-16<br>HE.16.Bu.C.B 17-32 | | 2-1103639-3<br>2-1103639-9 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **34** | **35** |

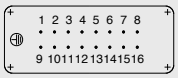
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

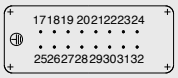
**Maßbild mm**
***Dimensions mm***



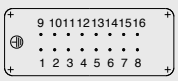

*Abstand für sichere Kontaktgabe max. 21 mm

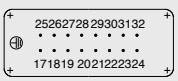
Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HSB.12/35 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 10***

**Schraubanschluss**

***Screw terminal***

**Kontaktzahlen**
***No. of contacts***

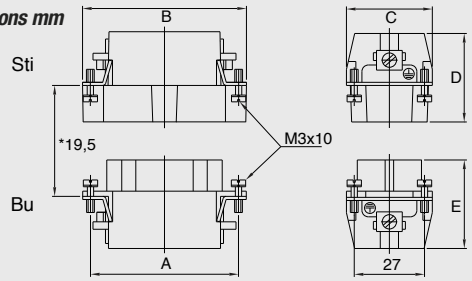
**(2 x 6) 12 +** ⏚

**400 V/35 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HSB.6/35.Sti.S 1-6 | 1-1104204-1 | |
| | HSB.6/35.Sti.S 7-12 | 1-1104206-1 | |
| Buchseneinsatz/*Female insert* | | | |
| | HSB.6/35.Bu.S 1-6 | | 1-1104205-1 |
| | HSB.6/35.Bu.S 7-12 | | 1-1104207-1 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **33** | **33,5** |

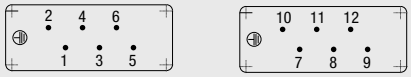
**Maßbild mm**
***Dimensions mm***




*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*

Anschlußseite Buchse
*Contact arrangement Female insert*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.80/HN.2D.144 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 10***

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

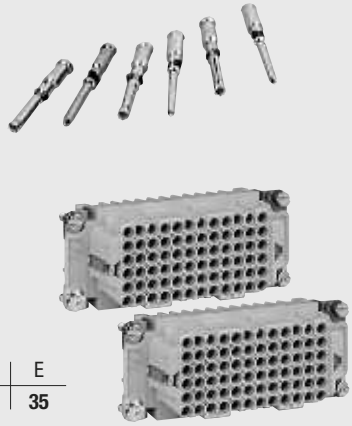
***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**(2 x 40/2 x 72) 80/144 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal* | 2xHN.D.40.Sti.C | 2-1103110-3 | |
| Buchseneinsatz/*Female insert* | 2xHN.D.40.BU.C | | 2-1103111-3 |
| Crimpanschluss/*Crimp terminal* | HN.2D.72.Sti.C.B 1- 72<br>HN.2D.72.Sti.C.B 73-144 | 2-1103208-3<br>2-1103209-3 | |
| | HN.2D.72.Bu.C.B 1- 72<br>HN.2D.72.Bu.C.B 73-144 | | 2-1103212-3<br>2-1103213-3 |



HN.D.80

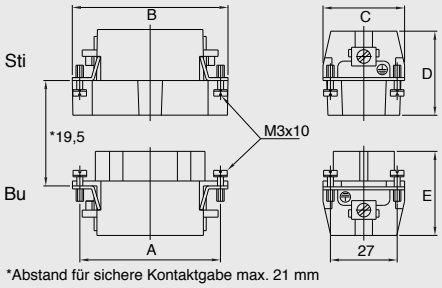
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **84,5** | **33** | **35** | **35** |

HN.2D.144

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **34** | **36,5** | **37** |

**Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34**
***Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34***

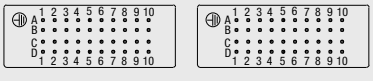
**Maßbild mm/*Dimensions mm***



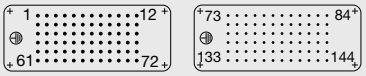

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*

HN.D.80

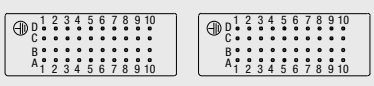


HN.2D.144

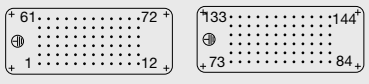



Anschlußseite Buchse/*Contact arrangement Female insert*

HN.D.80



HN.2D.144



## HD.80 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 10***

**Crimpanschluss für gestanzte HD.M Crimpkontakte**

***Crimp terminal for stamped HD.M crimp contacts***

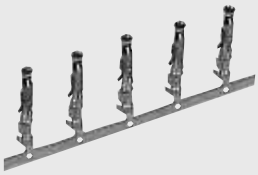
**Kontaktzahlen**
***No. of contacts***

**(2 x 40) 80 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | 2xHD.40.Sti.C | 2-1103012-3 | |
| Buchseneinsatz/*Female insert* | 2xHD.40.Bu.C | | 2-1103013-3 |

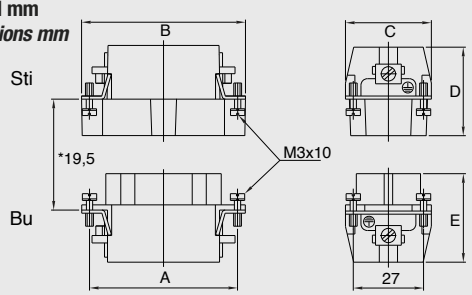
Schraubanschluss/*Screw terminal*



| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **84,5** | **33** | **35** | **35** |

Passende Crimpkontakte siehe Seite 35, Passende Crimpwerkzeuge siehe Seite 35
*Suitable Crimp contacts see page 35, Suitable Crimping tools see page 35*

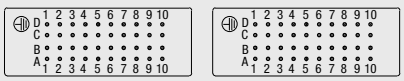
**Maßbild mm**
***Dimensions mm***




*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*

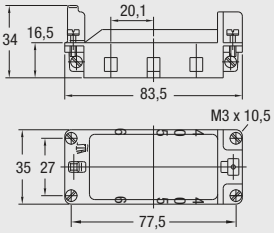
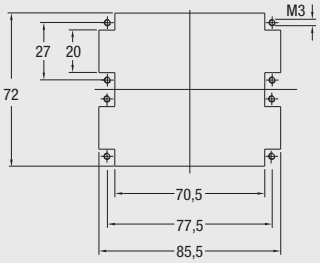
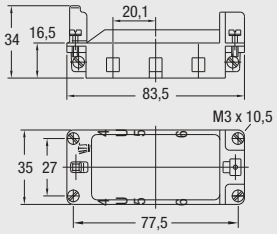
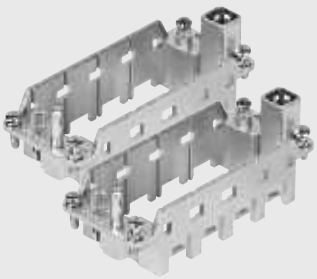
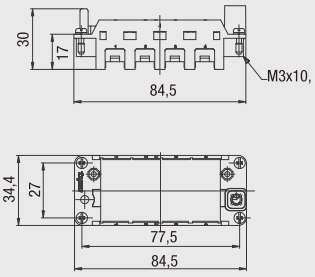
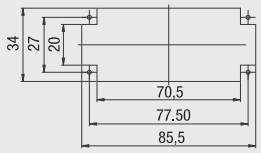
Anschlußseite Buchse
*Contact arrangement Female insert*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 10*

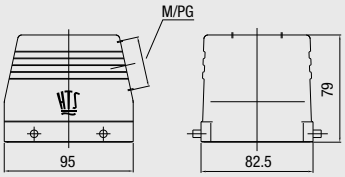
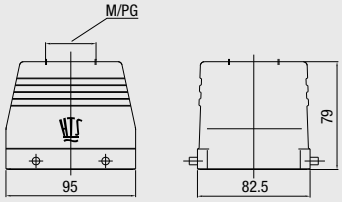
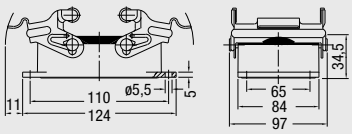
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
|   Montageausschnitt/*Panel cut-out*   Für Modul MDL Seite 194–203 *For module MDL page 194–203* | MDL2-GR.O-6/B.1-3<br>MDL2-GR.O-6/B.4-6 | 0-1108782-1<br>0-1108782-4 | |
|   Für Modul MDL Seite 194–203 *For module MDL page 194–203* | MDL2-GR.U-6/B.1-3<br>MDL2-GR.U-6/B.4-6 | | 0-1108782-2<br>0-1108782-5 |
| Halterahmen/*Fixing frame* | | | |
|    Montageausschnitt/*Panel cut-out*   Für Modul HVS Seite 204–212 *For module HVS page 204–212* | HVS-R.O 1-4<br>HVS-R.U 1-4 | 0-1103250-3 | 0-1103250-4 |

## HB.32, HB-K.32 Gehäuse/*Housings* — Baugröße/*Size 10*

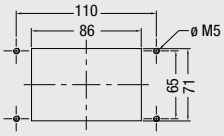
**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M40 | 29 | HB.32.STS.1.29.G<br>HB.32.STS.1.M40.G | 1-1102348-6<br>0-1106477-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M40 | 29 | HB-K.32.STS.1.29.G<br>HB-K.32.STS.1.M40.G | 2-1102348-6<br>1-1106477-0 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|   | M40 | 29 | HB.32.STO.1.29.G<br>HB.32.STO.1.M40.G | 1-1102351-6<br>0-1106477-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M40 | 29 | HB-K.32.STO.1.29.G<br>HB-K.32.STO.1.M40.G | 2-1102351-6<br>0-1106477-7 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|   | | | HB.32.AG-VS | 1-1102352-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.32.AG-VS | 2-1102352-1 |

Montageausschnitt/*Panel cut-out*




## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



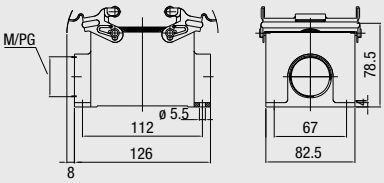
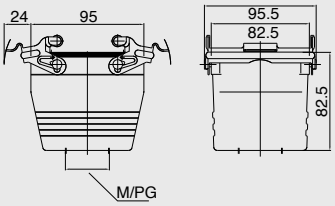
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.32, HB-K.32 Gehäuse/*Housings* — Baugröße/*Size 10*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|   | 2xM32 | 29<br>2x29 | HB.32.SG-VS.1.29.Z<br>HB.32.SG-VS.2.29.Z<br>HB.32.SG-VS.2.M32.Z | 1-1102354-1<br>1-1102356-1<br>0-1106476-4 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | 2xM32 | 29<br>2x29 | HB-K.32.SG-VS.1.29.Z<br>HB-K.32.SG-VS.2.29.Z<br>HB-K.32.SG-VS.2.M32.Z | 2-1102354-1<br>2-1102356-1<br>0-1106476-8 |
| **Kupplungsgehäuse:** Kabeleingang unten, Standard Bauform<br>***Cable-to-cable hood:*** *Bottom entry, Standard construction* | | | | |
|   | M40 | 29 | HB.32.KDO-VS.1.29.G<br>HB.32.KDO-VS.1.M40.G | 1-1102359-1<br>0-1106475-2 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

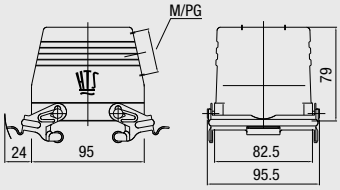
## HB.32, HB-K.32 Gehäuse/*Housings* — Baugröße/*Size 10*

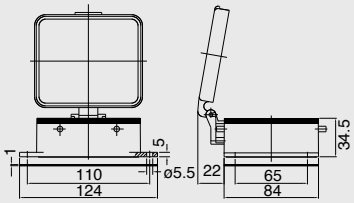
**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

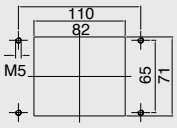
***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Verschlussbügel am Oberteil/*Locking clip on hood* — IP 65

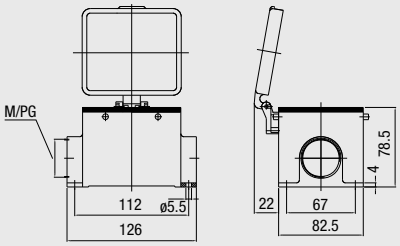
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform *Hood: Side entry, Standard construction* | | | | |
| | M40 | 29 | HB.32.STS-VS.1.29.G | 1-1102348-1 |
| | M40 | | HB.32.STS-VS.1.M40.G | 0-1106477-6 |
| | | | Mit Korrosionsschutz *With corrosion protection* | |
| | M40 | | HB-K.32.STS-VS.1.M40.G | 1-1106477-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform *Surface mounted housing: Bottom entry, Standard construction* | | | | |
| | | | HB.32.AGD | 1-1102360-6 |
| | | | Mit Korrosionsschutz *With corrosion protection* | |
| | | | HB-K.32.AGD | 2-1102360-6 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform *Surface mounted housing: Side entry, Standard construction* | | | | |
| | 2xM32 | 29 | HB.32.SGD.1.29.Z | 1-1102362-6 |
| | 2xM32 | 2x29 | HB.32.SGD.2.29.Z | 1-1102364-6 |
| | 2xM32 | | HB.32.SGD.2.M32.Z | 0-1106476-1 |
| | | | Mit Korrosionsschutz *With corrosion protection* | |
| | 2xM32 | | HB-K.32.SGD.2.M32.Z | 0-1106476-5 |






Montageausschnitt
*Panel cut-out*




## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



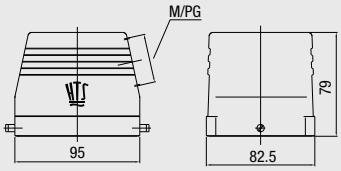
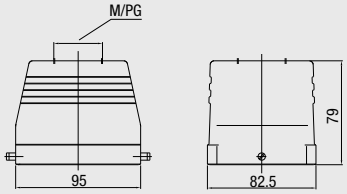
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.32, HB-K.32 Gehäuse/*Housings* — Baugröße/*Size 10*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | M40 | 29 | HB.32.STS-GR.1.29.G<br>HB.32.STS-GR.1.M40.G | 1-1102348-7<br>0-1106477-5 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M40 | 29 | HB-K.32.STS-GR.1.29.G<br>HB-K.32.STS-GR.1.M40.G | 2-1102348-7<br>1-1106477-1 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|   | M40 | 29 | HB.32.STO-GR.1.29.G<br>HB.32.STO-GR.1.M40.G | 1-1102351-7<br>0-1106477-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M40 | 29 | HB-K.32.STO-GR.1.29.G<br>HB-K.32.STO-GR.1.M40.G | 2-1102351-7<br>0-1106477-8 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

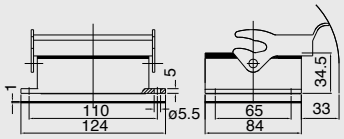
## HB.16, HB-K.16 Gehäuse/*Housings* — Baugröße/*Size 10*

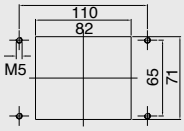
**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

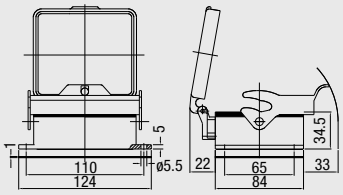
## Verschlussbügel am Unterteil/*Locking clip at housing bottom* — IP 65

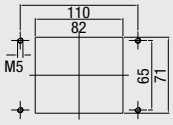
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HB.32.AG-LB<br>Mit Korrosionsschutz<br>*With corrosion protection*<br>HB-K.32.AG-LB | 1-1102352-2<br><br><br>2-1102352-2 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HB.32.AGD-LB<br>Mit Korrosionsschutz<br>*With corrosion protection*<br>HB-K.32.AGD-LB | 1-1102360-2<br><br><br>2-1102360-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | 2xM32 | 29 | HB.32.SGD-LB.1.29.Z<br>HB.32.SGD-LB.2.M32.Z | 1-1102362-2<br>0-1106476-2 |



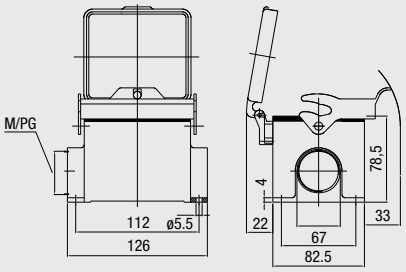




Montageausschnitt
*Panel cut-out*




Montageausschnitt
*Panel cut-out*




## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



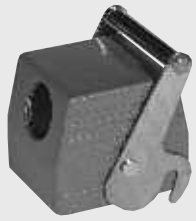
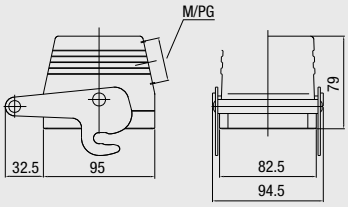
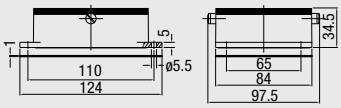
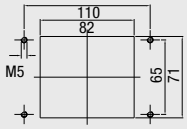
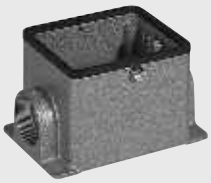
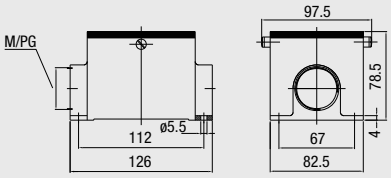
Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB-Z.32, HB-K/Z.32 Gehäuse/*Housings* — Baugröße/*Size 10*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|    | M40 | 29 | HB-Z.32.STS-ZB.1.29.G<br>HB-Z.32.STS-ZB.1.M40.G | 1-1102348-3<br>1-1106477-6 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | M40 | 29 | HB-K/Z.32.STS-ZB.1.29.G<br>HB-K/Z.32.STS-ZB.1.M40.G | 2-1102348-3<br>1-1106477-4 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|   | | | HB-Z.32.AG-ZVGR | 1-1102352-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K/Z.32.AG-ZVGR | 2-1102352-8 |
|   Montageausschnitt<br>*Panel cut-out* | | | | |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|    | | 29<br>2x29 | HB-Z.32.SG-ZVGR.1.29.Z<br>HB-Z.32.SG-ZVGR.2.29.Z | 1-1102354-8<br>1-1102356-8 |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HA.64 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 11***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

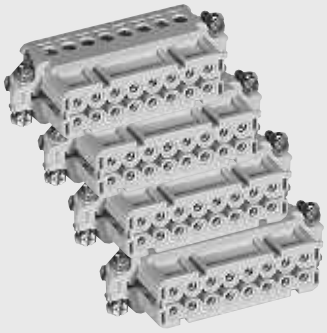
**(4 x 16) 64 +** ⏚

**250 V/16 A**

Stifteinsatz/*Male insert*

Buchseneinsatz/*Female insert*

Schraubanschluss/*Screw terminal*



Federzug-Anschluss/*Spring Clamp terminal*

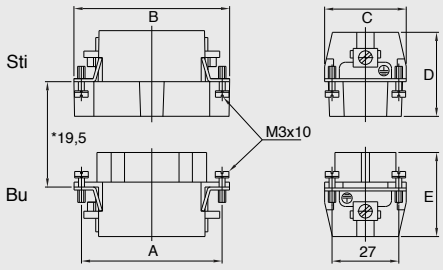
Crimpanschluss/*Crimp terminal*

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **77,5** | **83,5** | **33** | **34** | **35** |

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Schraubanschluss/*Screw terminal* | | | |
| | HA.16.Sti.S.B 1-16 | 1-1103416-1 | |
| | HA.16.Sti.S.B 17-32 | 1-1103416-7 | |
| | HA.16.Sti.S.B 33-48 | 1-1103416-8 | |
| | HA.16.Sti.S.B 49-64 | 1-1103416-9 | |
| | HA.16.Bu.S.B 1-16 | | 1-1103417-1 |
| | HA.16.Bu.S.B 17-32 | | 1-1103417-7 |
| | HA.16.Bu.S.B 33-48 | | 1-1103417-8 |
| | HA.16.Bu.S.B 49-64 | | 1-1103417-9 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HA.16.Sti.SC.B 1-16 | 7-1103416-1 | |
| | HA.16.Sti.SC.B 17-32 | 7-1103416-7 | |
| | HA.16.Sti.SC.B 33-48 | 7-1103416-8 | |
| | HA.16.Sti.SC.B 49-64 | 7-1103416-9 | |
| | HA.16.Bu.SC.B 1-16 | | 7-1103417-1 |
| | HA.16.Bu.SC.B 17-32 | | 7-1103417-7 |
| | HA.16.Bu.SC.B 33-48 | | 7-1103417-8 |
| | HA.16.Bu.SC.B 49-64 | | 7-1103417-9 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HA.16.Sti.C.B 1-16 | 2-1103416-3 | |
| | HA.16.Sti.C.B 17-32 | 2-1103416-7 | |
| | HA.16.Sti.C.B 33-48 | 2-1103416-8 | |
| | HA.16.Sti.C.B 49-64 | 2-1103416-9 | |
| | HA.16.Bu.C.B 1-16 | | 2-1103417-3 |
| | HA.16.Bu.C.B 17-32 | | 2-1103417-7 |
| | HA.16.Bu.C.B 33-48 | | 2-1103417-8 |
| | HA.16.Bu.C.B 49-64 | | 2-1103417-9 |

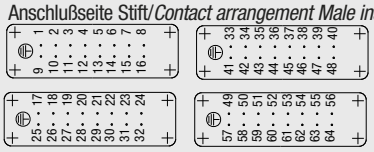
**Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37**
***Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37***

**Maßbild mm/*Dimensions mm***



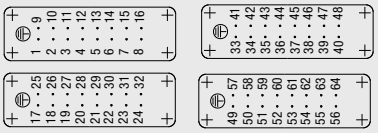

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*





Anschlußseite Buchse/*Contact arrangement Female insert*







Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

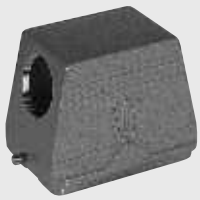
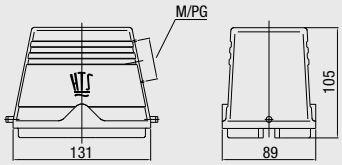
## HA.64 Gehäuse/*Housings* — Baugröße/*Size 11*

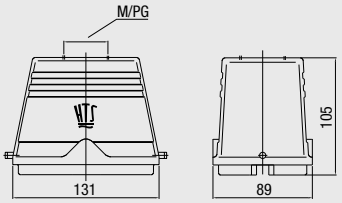
**Pulverbeschichtet, silbergrau**

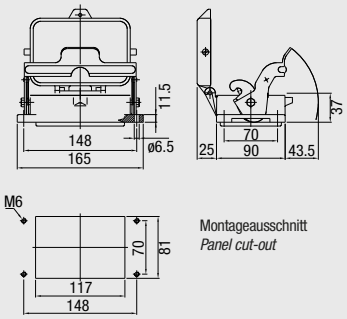
***Powder-coated, silver-grey***

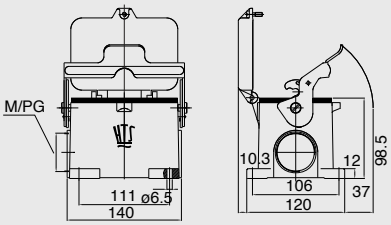
## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | M50 | 29 | HA.64.STS-GR.1.29.G | 1-1102002-7 |
| | | 36 | HA.64.STS-GR.1.36.G | 1-1102005-7 |
| | | 42 | HA.64.STS-GR.1.42.G | 1-1102008-7 |
| | | | HA.64.STS-GR.1.M50.G | 0-1106480-2 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | M50 | 29 | HA.64.STO-GR.1.29.G | 1-1102027-7 |
| | | 36 | HA.64.STO-GR.1.36.G | 1-1102030-7 |
| | | 42 | HA.64.STO-GR.1.42.G | 1-1102033-7 |
| | | | HA.64.STO-GR.1.M50.G | 0-1106480-1 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | HA.64.AGD-LB | 1-1102009-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | 2xM40 | 29 | HA.64.SGD-LB.1.29.Z | 1-1102011-2 |
| | | 2x29 | HA.64.SGD-LB.2.29.Z | 1-1102013-2 |
| | | 36 | HA.64.SGD-LB.1.36.Z | 1-1102015-2 |
| | | 2x36 | HA.64.SGD-LB.2.36.Z | 1-1102017-2 |
| | | | HA.64.SGD-LB.2.M40.Z | 01106479-1 |








## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HE.48 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 12***

**Schraubanschluss, Federzug-Anschluss, Crimpanschluss für gedrehte HE Crimpkontakte**

***Screw terminal, Spring Clamp terminal, Crimp terminal for screw machined HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**(2 x 24) 48+**

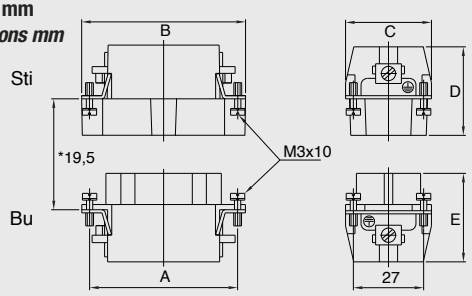
**400 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* / Buchseneinsatz/*Female insert* | | | |
| Schraubanschluss/*Screw terminal* | | | |
| | HE.24.Sti.S.B 1-24<br>HE.24.Sti.S.B 25-48 | 1-1103640-1<br>1-1103640-9 | |
| | HE.24.Bu.S.B 1-24<br>HE.24.Bu.S.B 25-48 | | 1-1103641-1<br>1-1103641-9 |
| Federzug-Anschluss/*Spring Clamp terminal* | | | |
| | HE.24.Sti.SC.B 1-24<br>HE.24.Sti.SC.B 25-48 | 7-1103640-1<br>7-1103640-9 | |
| | HE.24.Bu.SC.B 1-24<br>HE.24.Bu.SC.B 25-48 | | 7-1103641-1<br>7-1103641-9 |
| Crimpanschluss/*Crimp terminal* | | | |
| | HE.24.Sti.C.B 1-24<br>HE.24.Sti.C.B 25-48 | 2-1103640-3<br>2-1103640-9 | |
| | HE.24.Bu.C.B 1-24<br>HE.24.Bu.C.B 25-48 | | 2-1103641-3<br>2-1103641-9 |

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **34** | **35** |

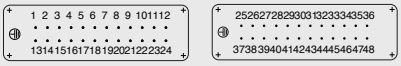
Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***

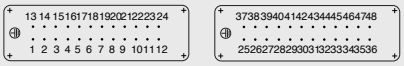



*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift
*Contact arrangement Male insert*




Anschlußseite Buchse
*Contact arrangement Female insert*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HN.D.128/HN.2D.216 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 12***

**Crimpanschluss für gedrehte HN.D Crimpkontakte**

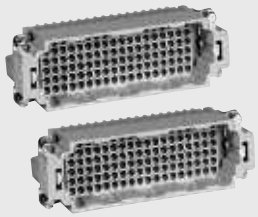
***Crimp terminal for screw machined HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**(2 x 64/2 x 108) 128/216 +** ⏚

**250 V/10 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Buchseneinsatz/*Female insert* — Crimpanschluss/*Crimp terminal* | 2xHN.D.64.Sti.C | 2-1103112-3 | |
| | 2xHN.D.64.BU.C | | 2-1103113-3 |
| Crimpanschluss/*Crimp terminal* | HN.2D.108.Sti.C.B 1-108<br>HN.2D.108.Sti.C.B 109-216 | 2-1103216-3<br>2-1103217-3 | |
| | HN.2D.108.Bu.C B 1-108<br>HN.2D.108.Bu.C.B 109-216 | | 2-1103220-3<br>2-1103221-3 |



HN.D.128

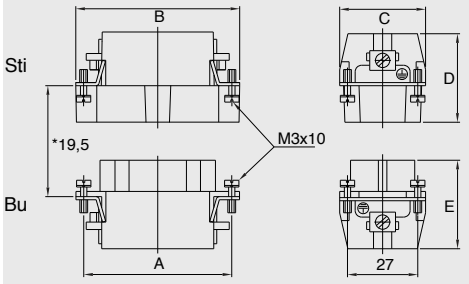
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **35** | **35** |

HN.2D.216

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **34** | **36,5** | **37** |

Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

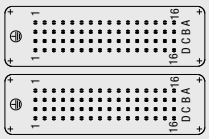
**Maßbild mm/*Dimensions mm***



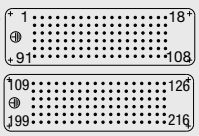

*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/*Contact arrangement Male insert*

HN.D.128




HN.2D.216





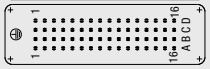





Anschlußseite Buchse/*Contact arrangement Female insert*

HN.D.128

HN.2D.216



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HD.128/HEE 92 Kontakteinsätze/*Contact inserts*

**Baugröße/*Size 12***

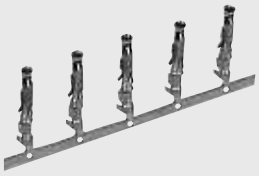
**Crimpanschluss für gestanzte HD.M Crimpkontakte (HD.128)**
**Crimpanschluss für gedrehte HVT Crimpkontakte (HEE 92)**

***Crimp terminal for stamped HD.M crimp contacts (HD.128)***
***Crimp terminal for screw machined HVT crimp contacts (HEE 92)***

**Kontaktzahlen**
***No. of contacts***

**(2 x 64)/(2 x 46) 128/92 +** ⏚

**250 V/10 A / 500 V/16 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* | | | |
| Crimpanschluss/*Crimp terminal* | | | |
| | 2xHD.64.Sti.C | 2-1103032-3 | |
|  | | | |
| Buchseneinsatz/*Female insert* | | | |
| | 2xHD.64.Bu.C | | 2-1103033-3 |
| | HEE.46.Sti.C<br>HEE.46.Sti.C.B47-92 | 0-1102886-1<br>0-1102886-2 | |
| | | | |
| | HEE.46.Bu.C<br>HEE.46.Bu.C.B47-92 | | 0-1102887-1<br>0-1102887-2 |

HD.128

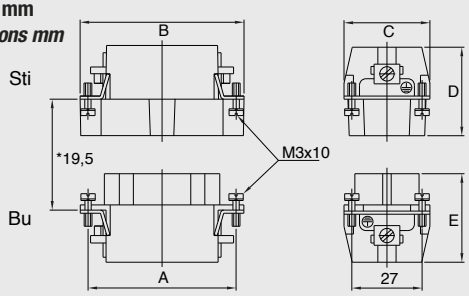
| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **35** | **35** |

HEE.92

| Maße/*Dimensions* | A | B | C | D | E |
|---|---|---|---|---|---|
| **mm** | **104** | **110** | **33** | **34** | **37** |

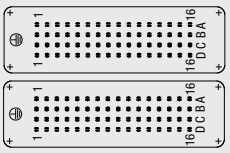
Passende Crimpkontakte siehe Seite 35/37, Passende Crimpwerkzeuge siehe Seite 35/37
*Suitable Crimp contacts see page 35/37, Suitable Crimping tools see page 35/37*

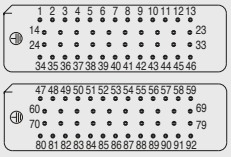
**Maßbild mm**
***Dimensions mm***




*Abstand für sichere Kontaktgabe max. 21 mm

Anschlußseite Stift/
*Contact arrangement*
*Male insert*



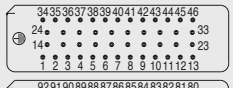


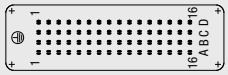




HD.128 HEE.92

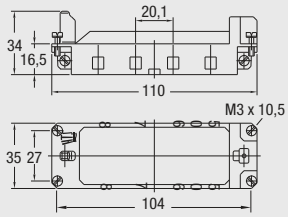
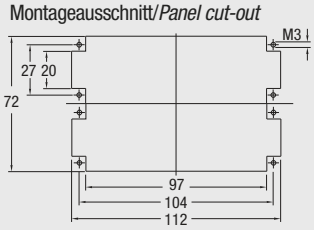
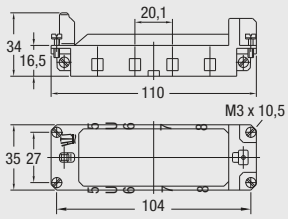
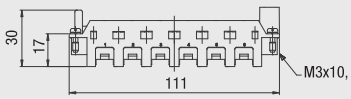
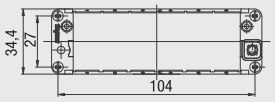
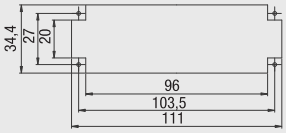
Anschlußseite Buchse/
*Contact arrangement*
*Female insert*





Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 12*

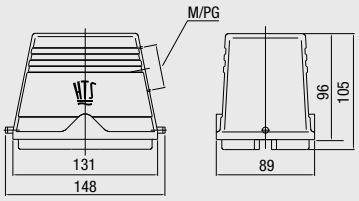
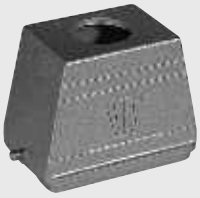
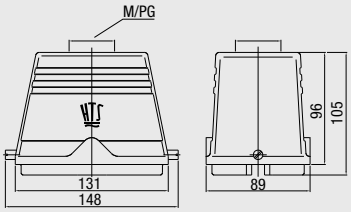
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
|   Montageausschnitt/*Panel cut-out*   Für Modul MDL Seite 194–203 *For module MDL page 194–203* | MDL2-GR.O-8/B.1-4<br>MDL2-GR.O-8/B.5-8 | 0-1108780-1<br>0-1108780-6 | |
|   Für Modul MDL Seite 194–203 *For module MDL page 194–203* | MDL2-GR.U-8/B.1-4<br>MDL2-GR.U-8/B.5-8 | | 0-1108780-2<br>0-1108780-7 |
| Halterahmen/*Fixing frame* | | | |
|     Montageausschnitt/*Panel cut-out*   Für Modul HVS Seite 204–212 *For module HVS page 204–212* | HVS-R.O 1-6<br>HVS-R.U 1-6 | 0-1103250-1 | <br>0-1103250-2 |

## HB.48, HB-K.48 Gehäuse/*Housings* — Baugröße/*Size 12*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | | 29 | HB.48.STS-GR.1.29.G | 1-1102373-7 |
| | | 36 | HB.48.STS-GR.1.36.G | 1-1102376-7 |
| | | 42 | HB.48.STS-GR.1.42.G | 1-1102379-7 |
| | M50 | | HB.48.STS-GR.1.M50.G | 0-1106482-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 36 | HB-K.48.STS-GR.1.36.G | 2-1102376-7 |
| | M50 | | HB-K.48.STS-GR.1.M50.G | 0-1106482-4 |
| **Steckergehäuse:** Kabeleingang oben, Standard Bauform<br>***Hood:*** *Top entry, Standard construction* | | | | |
|    | | 29 | HB.48.STO-GR.1.29.G | 1-1102382-7 |
| | | 36 | HB.48.STO-GR.1.36.G | 1-1102385-7 |
| | | 42 | HB.48.STO-GR.1.42.G | 1-1102388-7 |
| | M50 | | HB.48.STO-GR.1.M50.G | 0-1106482-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 36 | HB-K.48.STO-GR.1.36.G | 2-1102385-7 |
| | M50 | | HB-K.48.STO-GR.1.M50.G | 0-1106482-6 |

**Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188***



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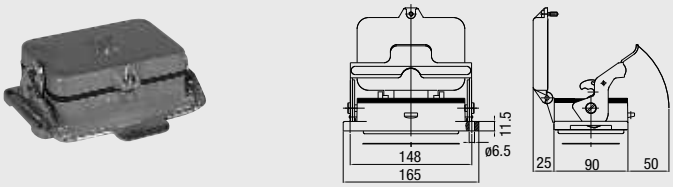
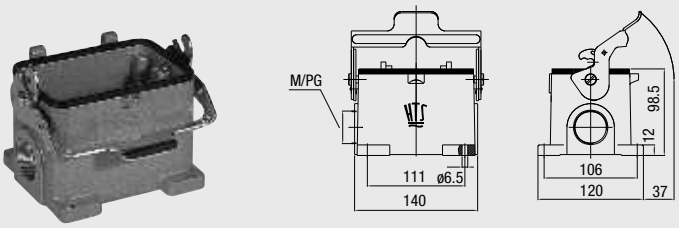
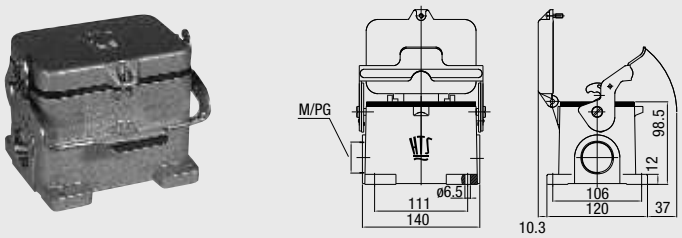
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HB.48, HB-K.48 Gehäuse/*Housings* — Baugröße/*Size 12*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Längsbügel am Unterteil/*Side clip at housing bottom* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *Bottom entry, Standard construction* | | | | |
|  | | | HB.48.AGD-LB | 1-1102389-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K.48.AGD-LB | 2-1102389-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|  | | 29 | HB.48.SG-LB.1.29.Z | 1-1102391-2 |
| | | 2x29 | HB.48.SG-LB.2.29.Z | 1-1102393-2 |
| | | 36 | HB.48.SG-LB.1.36.Z | 1-1102395-2 |
| | | 2x36 | HB.48.SG-LB.2.36.Z | 1-1102397-2 |
| | 2xM40 | | HB.48.SG-LB.2.M40.Z | 0-1106481-2 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 36 | HB-K.48.SG-LB.1.36.Z | 2-1102395-2 |
| | | 2x36 | HB-K.48.SG-LB.2.36.Z | 2-1102397-2 |
| **Sockelgehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Surface mounted housing:*** *Side entry, Standard construction* | | | | |
|  | | 29 | HB.48.SGD-LB.1.29.Z | 1-1107001-2 |
| | | 2x29 | HB.48.SGD-LB.2.29.Z | 1-1107003-2 |
| | | 36 | HB.48.SGD-LB.1.36.Z | 1-1107005-2 |
| | | 2x36 | HB.48.SGD-LB.2.36.Z | 1-1107007-2 |
| | 2xM40 | | HB.48.SGD-LB.2.M40.Z | 0-1106481-1 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 36 | HB-K.48.SGD-LB.1.36.Z | 2-1107005-2 |
| | | 2x36 | HB-K.48.SGD-LB.2.36.Z | 2-1107007-2 |
| | 2xM40 | | HB-K.48.SGD-LB.2.M40.Z | 0-1106481-4 |

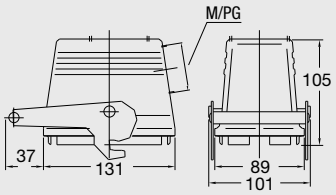
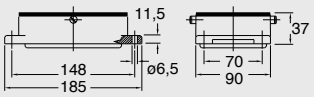
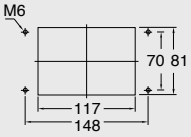
## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*

## HB/Z.48, HB/Z-K.48 Gehäuse/*Housings* — Baugröße/*Size 12*

**Pulverbeschichtet, silbergrau**
**K = korrosionsgeschützt, schwarz**

***Powder-coated, silver-grey***
***K = corrosion-resistant, black***

## Zentralbügel am Steckergehäuse/*Central locking clip on hood* — IP 65

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Steckergehäuse:** Kabeleingang seitlich, Standard Bauform<br>***Hood:*** *Side entry, Standard construction* | | | | |
|   | | 42 | HB/Z.48.Sts-ZB.1.42.G | 1-1102234-3 |
| | | 48 | HB/Z.48.Sts-ZB.1.48.G | 1-1102236-3 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | 42 | HB-K/Z.48.Sts-ZB.1.42.G | 2-1102234-3 |
| | | 48 | HB-K/Z.48.Sts-ZB.1.48.G | 2-1102236-3 |
| **Anbaugehäuse:** Kabeleingang unten, Standard Bauform<br>***Surface mounted housing:*** *bottom entry, Standard construction* | | | | |
|   | | | HB/Z.48.AG-ZVGR | 1-1102237-8 |
| | | | Mit Korrosionsschutz<br>*With corrosion protection* | |
| | | | HB-K/Z.48.AG-ZVGR | 2-1102237-8 |
|   | | | | |

## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



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## HF-13 Modul/*Module*

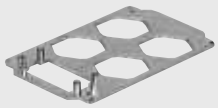
## Baugröße/*Size 8/12*

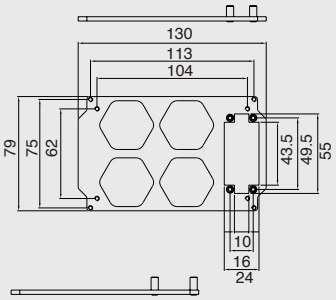
**Kontaktzahlen**
***No. of contacts***

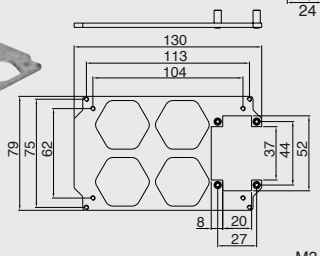
**2 + 1; 4 + 1 +** ⏚

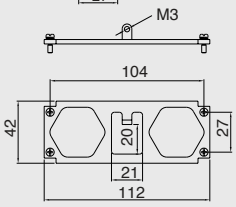
**3 kV/350 A**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Stifteinsatz/*Male insert* — Powerkontakt *Contact for power* | HF.13.Sti. | 0-1110950-2 | |
| Buchseneinsatz/*Female insert* — Powerkontakt *Contact for power* | HF.13.Bu. | | 0-1110951-2 |
| Stifteinsatz/*Male insert* — Erdkontakt *Contact for grounding* | HF.13.Sti.E | 0-1110950-4 | |
| Buchseneinsatz/*Female insert* — Erdkontakt *Contact for grounding* | HF.13.Bu.E | | 0-1110951-4 |
| | | Oberteil *Top* | Unterteil *Bottom* |
| 3 x Leistung<br>1 x Erde<br>1 x BG 2 (HA.10)<br>Montage im HF.12 Gehäuse<br>*3 x for power*<br>*1 x for earth*<br>*1 x for signal (HA.10)*<br>*Assembly in HF.12 Housings* | HF.12.3+PE+BG2 | 0-1110955-3 | 0-1110955-1 |
| 3 x Leistung<br>1 x Erde<br>1 x BG 3 (HE.6)<br>Montage im HF.12 Gehäuse<br>*3 x for power*<br>*1 x for earth*<br>*1 x for signal (HE.6)*<br>*Assembly in HF.12 Housings* | HF.12.3+PE+BG3 | 0-1110955-4 | 0-1110955-2 |
| 2 x Leistung<br>1 x BG61 (HA.3/HE.Q5)<br>Montage im HF.8 Gehäuse<br>*2 x for power*<br>*1 x signal*<br>*Assembly in HF.8 Housings* | HF.8.2+BG1<br>HF.8.2+BG1 | 0-1110960-2 | 0-1110960-1*<br>0-1110960-3** |





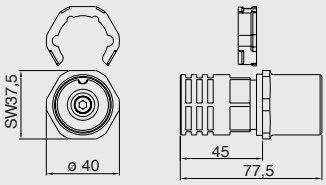




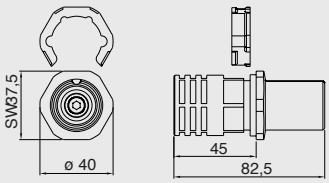

* für Gehäuse-Unterteil mit 81 mm Höhe/*for Bottomhousing with 81 mm height*
** für Gehäuse-Unterteil mit 20 mm Höhe/*for Bottomhousing with 20 mm height*

Passende Crimpkontakte siehe Seite 42, Passende Crimpwerkzeuge siehe Seite 42
*Suitable Crimp contacts see page 42, Suitable Crimping tools see page 42*

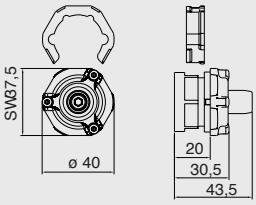
**Maßbild mm**
***Dimensions mm***



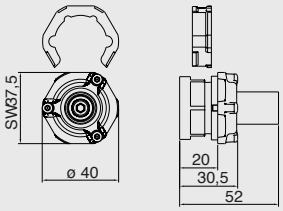

Powerkontakt Stift
*Contact for power male*




Powerkontakt Buchse
*Contact for power female*




Erdkontakt Stift
*Contact for grounding male*




Erdkontakt Buchse
*Contact for grounding female*

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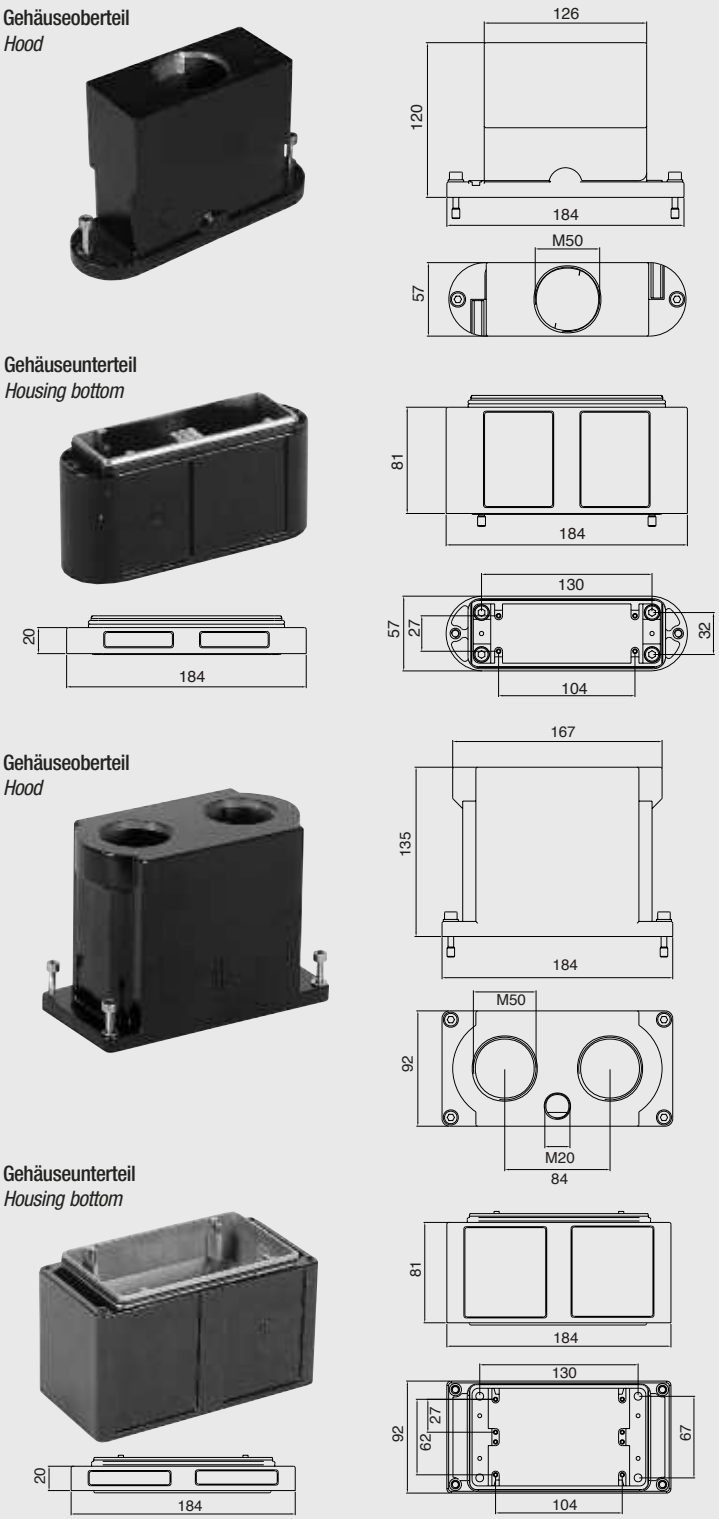
## HF-HIP-K 8/HF-EMV-K 8 HF-HIP-K 12/HF-EMV-K 12 Gehäuse/*Housings* Baugröße/*Size 8/12*

**EMV-K: Schutz gegen elektromagnetische Beeinflussung, druckdicht, korrosionsgeschützt, schwarz**
**HIP-K: Korrosionsgeschützt, schwarz**

***EMV: Protection against electro-magnetic interference, pressure-tight, Housings corrosion-resistant, black***
***HIP-K: Housings corrosion-resistant, black***

## Schraubverriegelung am Oberteil/*Screw lock on hood* IP 68

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| Gehäuseoberteil *Hood* | | | | |
| | 1 x M50 | | HF-HIP-K.8.Sto.1.M50G | 0-1102839-4 |
| | 1 x M50 | | HF.8.EMV-K.8.Sto.1.M50G | 0-1102839-3 |
| | 2 x M40 | | HF.HIP-K.8.Sto.2.M40G | 0-1102839-2 |
| | 2 x M40 | | HF.EMV-K.8.Sto.2.M40G | 0-1102839-1 |
| Gehäuseunterteil *Housing bottom* | Höhe/*height* | | | |
| | | 20 mm | HF-HIP-K.8.AG.N | 0-1102837-2 |
| | | 20 mm | HF-EMV-K.8.AG.N | 0-1102837-1 |
| | 81 mm | | HF-HIP-K.8.AG | 0-1102836-2 |
| | 81 mm | | HF-EMV-K.8.AG | 0-1102836-1 |
| Gehäuseoberteil *Hood* | | | | |
| | 2 x M40 | | HF-HIP-K.12.Sto.2.M40G | 0-1102840-2 |
| | 2 x M40 | | HF-EMV-K.12.Sto.2.M40G | 0-1102840-1 |
| | 2 x M50 | | HF-HIP-K.12.Sto.2.M50G | 0-1102840-4 |
| | 2 x M50 | | HF-EMV-K.12.Sto.2.M50G | 0-1102840-3 |
| Gehäuseunterteil *Housing bottom* | Höhe/*height* | | | |
| | | 20 mm | HF-HIP-K.12.AG.N | 0-1102838-2 |
| | | 20 mm | HF-EMV-K.12.AG.N | 0-1102838-1 |
| | 81 mm | | HF-HIP-K.12.AG | 0-1102192-2 |
| | 81 mm | | HF-EMVK-K.12.AG | 0-1102192-1 |




## Passende Kabelverschraubungen ab Seite 188/*Suitable Cable fittings from page 188*



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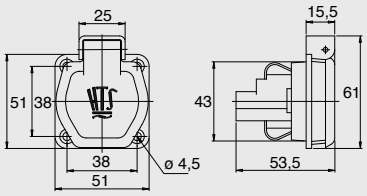
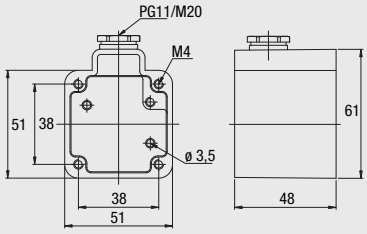
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Schutzkontakt

| Bezeichnung<br>*Description* | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* |
|---|---|---|
|   | UP.M | 1-1102975-9 |
|   | AP.M.11<br>AP.M.1.M20 | 1-1102978-9<br>0-1102978-2 |

### Technische Kennwerte

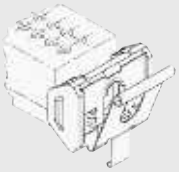
| | |
|---|---|
| Kontaktzahlen | 2 + PE |
| el. Bemessungsstrom [A] | 10 |
| el. Bemessungsspannung [V] | 250 |
| Temperaturbereich | -40°C – +125°C |
| Schraubanschluss | 0,5 – 2,5 mm² |

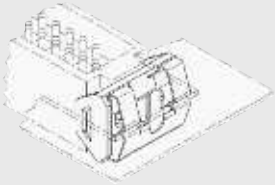
### *Technical Specification*

| | |
|---|---|
| *No. of Contacts* | *2 + PE* |
| *rated current [A]* | *10* |
| *rated voltage [V]* | *250* |
| *temperature range* | *-40°C – +125°C* |
| *screw terminal* | *0,5 – 2,5 mm²* |

## Quick-In System/*Quick-In System*

| Bezeichnung<br>*Description* | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* |
|---|---|---|
| Rasterelement zur Verriegelung Stifteinsatz-Buchseneinsatz<br>*locking elemnet for fixing ipin insert-socket insert* | QSB | 0-1106515-1 |
| Rasterelement zur Befestigung im Montageausschnitt<br>*locking elemnet for fixing in panel cut-out* | QM | 0-1106516-1 |
| Kodierset<br>*Coding set* | Cos.Quick-In | 0-1110939-3 |
| Zugentlastungsschelle<br>*Cable clamp* | ZE-HSB-Quick | 0-1108723-1 |



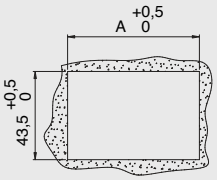


**Blechdicke/*Panel strength***
**min. 1mm – max. 2mm**

| Baugrösse<br>*Size* | Abmessungen<br>*Dimensions*<br>**A** |
|---|---|
| 3 | 65 |
| 4 | 78 |
| 6 | 98,5 |
| 8 | 125 |

**Blechdicke/*Panel strength***
**2mm – max. 3mm**

| Baugrösse<br>*Size* | Abmessungen<br>*Dimensions*<br>**A** |
|---|---|
| 3 | 66 |
| 4 | 79 |
| 6 | 99,5 |
| 8 | 126 |




### Merkmale

- Befestigung der Rastelemente am Kontakteinsatz ohne Werkzeug
- Funktionalität durch robuste Ausführung
- Bedienerfreundliches Handling
- Höchstmass an Flexibilität
- Kostensenkung durch rationelle Verarbeitung und Entfall der Metallgehäuse
- Platzsparende Montage
- Verwendbar für alle Kontakteinsätze der Baugrössen 3, 4, 6, 8
- Montagekostenreduktion durch Vorassemblage

### *Characteristics*

- *fixing of the locking elemnets on the contact insert without tools*
- *practicality due to solid execution*
- *user-friendly handling*
- *highest degree of flexibility*
- *cost reduction due to economic finish and omission of metal housings*
- *space-saving assembly*
- *can be used for all contact inserts of the sizes 3, 4, 6, 8*
- *cost reduction due to pre-assembly*



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

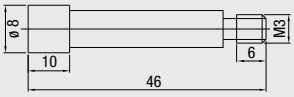
# Schraubverbindung für Kontakteinsätze/*Screw connection for contact inserts*

| | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|

**Schraubverbindung**
Rändel- und Buchsenschrauben sichern Kontakteinsätze, die ohne Gehäuse in Schaltschrankausschnitte montiert werden und infolge von Schwingungen eine Trennung der elektrischen Verbindung oder das Herabfallen verhindern. Passende Ausführungen sind für alle rechteckigen Kontakteinsätze der Baugrössen 3, 4, 6, 8, 10, 12 erhältlich.

***Screw connection***
*Thumb and bush screws ensure secure mating of contact inserts which are mounted directly into cut-outs in panels (i. e. without housings). Screw versions are available for all rectangular contact inserts of size 3, 4, 6, 8, 10, 12.*

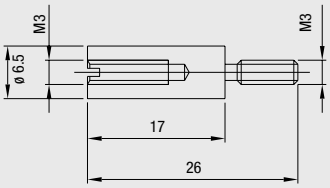
**Rändelschraube**
***Thumb screw***




RS-M3 — 1-1106107-1

Für die Montage der Kontaktträger werden je Steckverbindung 2 Rändel- und 2 Buchsenschrauben eigesetzt.
*For the assembly of the contact carriers, you need 2 bush screws and 2 thumb screws for each plug connection.*

**Buchsenschraube**
***Bush screw***




BEBO.M3.KURZ — 1-1106109-1

# Kodierung/*Coding*

| Kodierungsmöglichkeiten *Codings* | Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|
| Kodierungsmöglichkeiten mit Sperrbolzen<br>Für Gehäuse mit 1 Kontakteinsatz<br>*Coding with code pins*<br>*For housings with 1 contact insert* | **Sperrbolzen**<br>***Code pin*** | SPB-M3 | 1-1106100-1 |
| Mit 2 Kontakteinsätzen/*with 2 contact inserts* | Pro Steckverbinder werden 4 Sperrbolzen benötigt<br>*4 code pins are required per connector* | | |
| Kodierungen mit Führungsstiften und -buchsen verhindern weitestgehend ein Schrägstecken und -ziehen des Steckers. Schräglage nach DIN EN 175.301-801 in Längsrichtung ± 5°.<br>*Coding with guide pins and bushes prevents angular plugging and unplugging the connector.*<br>*Max. angle as per DIN EN 175.301-801 (longitudinally) ± 5°.* | Sti = Stifteinsatz/*Male insert*<br>Bu = Buchseneinsatz/*Female insert*<br>▲ = Sperrbolzen/*Code pin*<br>+ = Befestigungsschraube/ *Fixing screw* | | |
| Für Gehäuse mit 1 Kontakteinsatz<br>*For housings with 1 contact insert* | **Führungsstifte- und buchsen**<br>***Guide pins and bushes***<br><br>**Führungsbuchse**<br>***Guide bush*** | F-Bu-M3 | 1-1106101-1 |
| Für Gehäuse mit 2 Kontakteinsätzen<br>*For housings with 2 contact inserts* | **Führungsstift**<br>***Guide pins*** | F-Sti-M3 | 1-1106102-1 |
| | Sti = Stifteinsatz/*Male insert*<br>Bu = Buchseneinsatz/*Female insert*<br>● = Führungsstift/*Guide pin*<br>○ = Führungsbuchse/*Guide bush*<br>+ = Befestigungsschraube/ *Fixing screw* | | |



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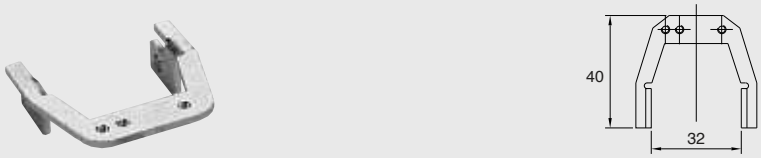
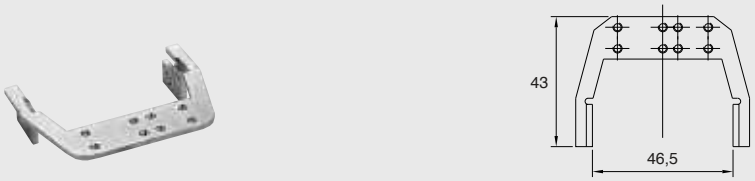
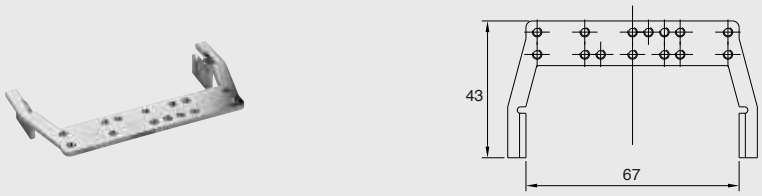
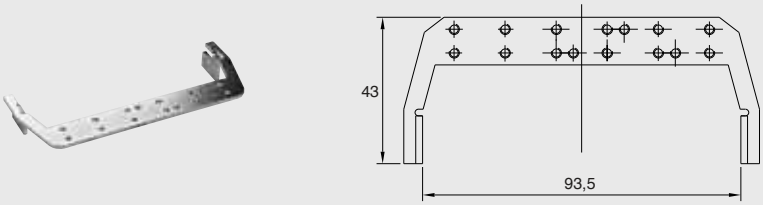
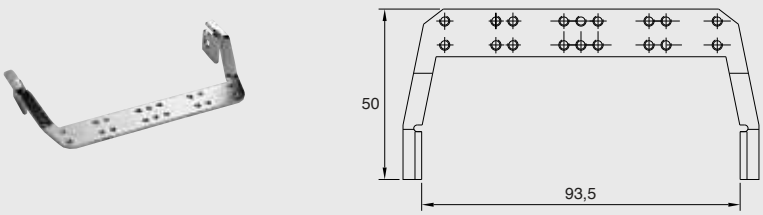
## Schirmkontaktbügel/*Screen termination*

- **zur nachträglichen Montage am Kontakteinsatz**
- **zur Auflage von geschirmten Kabeln**

- ***for post-assembly on contact insert***
- ***for reception of screened cables***

| **Bezeichnung** *Description* | **Bestelltext** *Designation* | **Bestell-Nr.** *Order No.* |
|---|---|---|
| Schirmkontaktbügel *Screen termination*   | SB.ST.Bgr.3 | 1-1106305-9 |
|   | SB.ST.Bgr.4 | 1-1106306-9 |
|   | SB.ST.Bgr.6 | 1-1106307-9 |
|   | SB.ST.Bgr.8 | 1-1106308-9 |
|   | SB.HSS.Bgr.8 | 1-1106309-9 |

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
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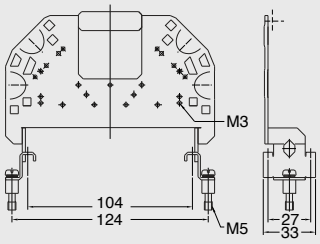
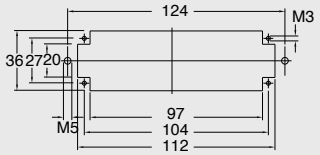
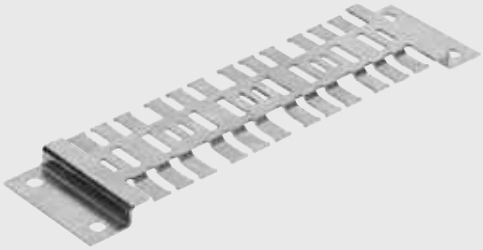
## Griffblech/*Grip*

**Griffblech dient als:**
**Zugentlastung/Schirmauflage/Montage ohne Gehäuse**

***Grip***
***Strain relief/Screen bar/Application without housing***

| Bezeichnung<br>*Description* | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* |
|---|---|---|
| Griffblech Baugröße 8<br>*Grip size 8*<br> <br>  | GB.1.-BG.8 | 1-1106301-9 |
| Montageausschnitt / *Panel cut-out*<br>  | GB1.BG.6 | 1-1106300-9 |
| Schirmschiene<br>*Braid bar*<br> | S-Schelle gross | 0-1102081-1 |
| | S-Schelle klein | 0-1102082-1 |
|  | Schirmschiene gerade | 0-1110505-1 |



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## Zubehör für Schirmkontaktbügel/*Accessories for screen termination*

| **Bezeichnung**<br>***Description*** | **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** |
|---|---|---|
| Schellenset<br>*Cable clamp* | | |
| | Schellenset/Cable clamp<br>4,5mm<br>5mm<br>6mm<br>7mm<br>8mm<br>9mm<br>10mm | <br>1-1106302-9<br>2-1106302-9<br>3-1106302-9<br>4-1106302-9<br>5-1106302-9<br>6-1106302-9<br>7-1106302-9 |
| Erdungsband<br>*Grounding terminal* | | |
| | Erdungsband<br>Grounding terminal<br>Set 90mm<br>Set 120mm<br>Set 220mm | <br><br>1-1106303-9<br>2-1106303-9<br>3-1106303-9 |
| Schrauben-Set<br>*Screw set* | | |
| | Schrauben-Set/Screw set | 1-1106304-9 |

## Schutzkappe für Gehäuseober- /unterteile/*Protective covers for housings*

**Verstärkte Kunstoffschale (UV-beständig)**
**Metallausführung**

***Reinforced plastic shell (UV-resistant)***
***Metal-Version***

## Baugrösse 1,2,3,4,5,6,8/*Size 1,2,3,4,5,6,8*

| **Bezeichnung** *Description* | **Bestelltext** *Designation* | **Bestell-Nr.** *Order No.* |
|---|---|---|
| **Schutzkappe** für Gehäuseunterteile<br>***Protective cover*** *for housings* | | |
| Metall-Ausführung<br>*Metal version*<br>Baugröße 1/*size 1* | HA.3.SKB | 2-1106205-7 |
| Baugröße 1/*size 1* | HG-Q.5.DE<br>HG-Q.5.DE.BL | 0-1103176-1<br>0-1103176-2 |
| Baugröße HG-Q/*size HG-Q* | Set-HG-Q.8.SKP | 0-1108818-1 |
| Metall-Ausführung<br>*Metal version*<br>Baugröße 2/*size 2* | HB.6.SKB<br>HA.10.SKB | 1-1106207-7<br>2-1106206-7 |
| Metall-Ausführung<br>*Metal version*<br>Baugröße 5/*size 5* | HA.16.SKB | 2-1106208-7 |
| Baugröße 3/*size 3* | mit Fangschnur<br>*with attachment string*<br>HB.6.SKP | 5-1106207-7 |
| Baugröße 4/*size 4* | mit Fangschnur<br>*with attachment string*<br>HB.10.SKP | 5-1106213-6 |
| Baugröße 6/*size 6* | mit Fangschnur<br>*with attachment string*<br>HB.16.SKP-VS<br>HB.16.SKP-LB | 2-1106214-0<br>3-1106214-0 |
| Baugröße 8/*size 8* | mit Fangschnur<br>*with attachment string*<br>HB.24.SKP-VS<br>HB.24.SKP-LB | 2-1106216-0<br>3-1106216-0 |
| **Schutzkappe** für Gehäuseoberteile Kunststoffschale/***Protective cover*** *for housings Plastic shell* | | |
| Baugröße 6/*size 6* | HB.16.SKP-VS+D | 2-1106214-1 |
| Baugröße 8/*size 8* | HB.24.SKP-VS+D | 2-1106216-1 |



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# Schutzdeckel für Gehäuseober- /unterteile/*Protective covers for hoods and housings*

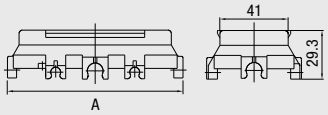
**Verstärkte Kunststoffschale (UV-beständig), Ausführung mit und ohne Fangschnur**
***Metallausführung***

***Reinforced plastic shell (UV-resistant), Versions with/without attachment string***
***Metal-Version***

## Baugrösse 3, 4, 6 + 8/*Size 3, 4, 6 + 8*

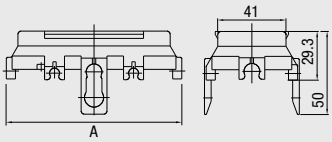
| Bezeichnung<br>*Description* | | Bestell-Nr.<br>*Order No.* |
|---|---|---|
| **Schutzdeckel** für Gehäuseober- und Gehäuseunterteile mit Bolzen<br>***Protective cover*** *for hoods and housings with bolts* | | |
| | SKP.6 | 0-1110684-3 |
| | SKP.8 | 0-1110661-3 |
| | mit Fangschnur<br>*with attachment string* | |
| | SKP.6.F | 0-1106258-3 |
| | SKP.8.F | 0-1106258-4 |
| **Schutzdeckel** für Gehäuseoberteile mit Zentralbügel<br>***Protective cover*** *for hoods with central locking clip* | | |
| | SKP.6/R | 0-1110684-4 |
| | SKP.8/R | 0-1110661-4 |
| | mit Fangschnur<br>*with attachment string* | |
| | SKP.6/R.F | 0-1106259-3 |
| | SKP.8/R.F | 0-1106259-4 |
| **Schutzkappen für Gehäuse-Unterteile Serien HIP, EMV, EMV-K**<br>***Protective covers for housings series HIP, EMV, EMV-K*** | | |
| | **HIP**<br>HIP/EMV.6/16.SKB | 3-1106201-5 |
| | **HIP-K**<br>HIP-K/EMV-K.6/16.SKB | 4-1106201-5 |
| | **HIP**<br>HIP/EMV.10/24.SKB | 3-1106202-5 |
| | **HIP-K/EMV-K**<br>HIP-K/EMV-K.10/24.SKB | 4-1106202-5 |
| | **HIP**<br>HIP/EMV.16/40.SKB | 3-1106203-5 |
| | **HIP-K**<br>HIP-K.16/40.SKB | 4-1106203-5 |
| | **HIP**<br>HIP/EMV.24/64.SKB | 3-1106204-5 |
| | **HIP-K/EMV-K**<br>HIP-K/EMV-K.24/64.SKB | 4-1106204-5 |

Baugröße 6/8/*size 6/8*

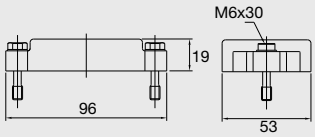


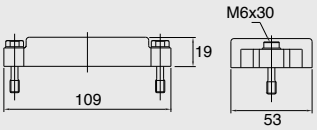

| Baugrösse/*Size* | A = mm |
|---|---|
| 6 | 105 |
| 8 | 132 |

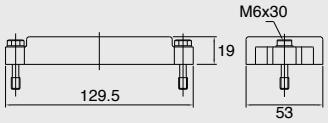
Baugröße 6/8/*size 6/8*

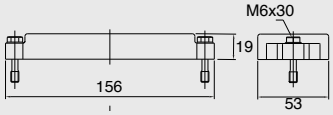



| Baugrösse/*Size* | A = mm |
|---|---|
| 6 | 105 |
| 8 | 132 |







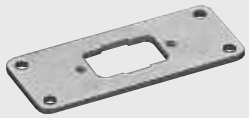
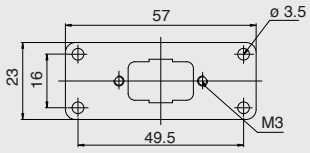
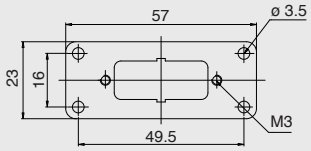
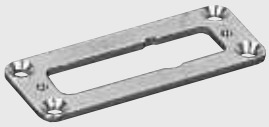
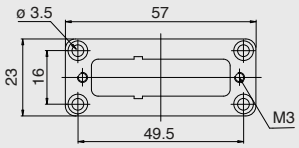
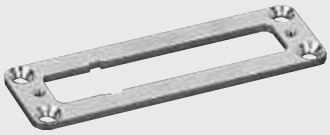
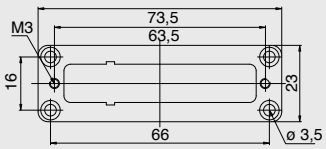
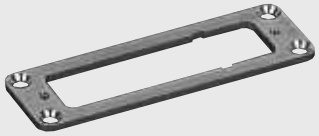
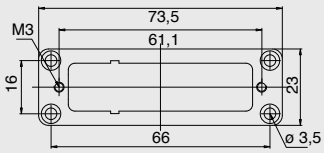


## Adapterbleche für SUB-D Einsätze/*Adapter plates for SUB-D inserts*

**Zur Montage von SUB-D Einsätzen**

***For assembly of SUB-D inserts***

## Adapterplatten für Serie HA/*Adapterplates for Series HA*

| Bezeichnung<br>*Description* | Bestelltext<br>*Designation* | Bestell-Nr./*Order No.*<br>Oberteile<br>*for hood* | <br>Unterteile<br>*for bottom* |
|---|---|---|---|
| Für Gehäuse HA.10<br>*For housings HA.10* | | | |
|    | 1 x 9 | 0-1107197-1 | 0-1107196-1 |
|   | 1 x 15 | 0-1107197-2 | 0-1107196-2 |
|    | 1 x 25 | 0-1107197-3 | 0-1107196-3 |
| Für Gehäuse HA.16<br>*For housings HA.16* | | | |
|    | 1 x 37 | 0-1107203-1 | 0-1107202-1 |
|    | 1 x 50 | 0-1107203-2 | 0-1107202-2 |



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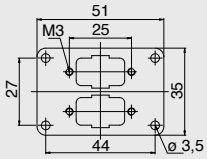
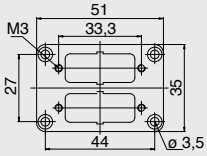
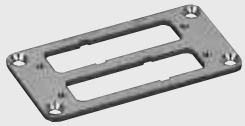
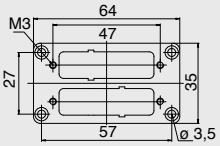
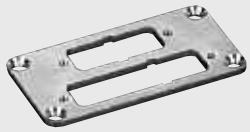
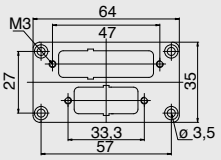
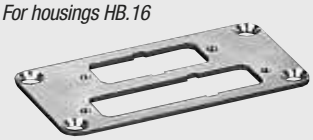
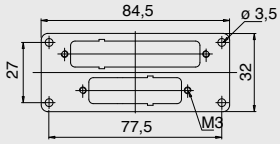
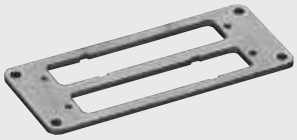
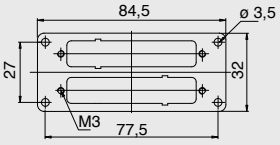
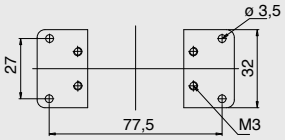
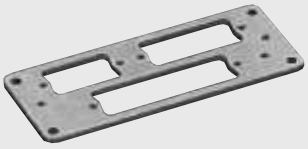
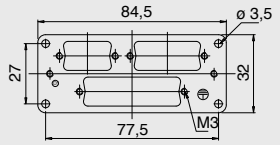
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

# Adapterbleche für SUB-D Einsätze/*Adapter plates for SUB-D inserts*

**Zur Montage von SUB-D Einsätzen**

***For assembly of SUB-D inserts***

## Adapterplatten für Serie HB/*Adapterplates for Series HB*

| Bezeichnung<br>*Description* | Bestelltext<br>*Designation* | Bestell-Nr./*Order No.*<br>Oberteile<br>*for hood* | <br>Unterteile<br>*for bottom* |
|---|---|---|---|
| Für Gehäuse HB.6<br>*For housings HB.6* | | | |
|  | 2 x 9 | 0-1107199-1 | 0-1107198-1 |
|  | 2 x 15 | 0-1107199-2 | 0-1107198-2 |
| Für Gehäuse HB.10<br>*For housings HB.10* | | | |
|   | 1 x 15 + 25 | 0-1107201-2 | 0-1107200-2 |
|   | 2 x 25 | 0-1107201-1 | 0-1107200-1 |
| Für Gehäuse HB.16<br>*For housings HB.16* | | | |
|   | 1 x 25 + 37 | 0-1107205-2 | 0-1107204-2 |
|   | 2 x 37 | 0-1107205-3 | 0-1107204-3 |
|  | 2 x 50 | | 0-1107204-4 |
|   | 1 x 9 + 15 + 25 | 0-1107205-1 | 0-1107204-1 |

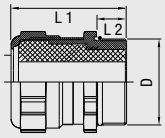
# Kabelverschraubungen und Zubehör/*Cable fittings and accessories*

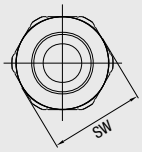
## EMV-Kabelverschraubung
## Schutz gegen elektromagnetische Beeinflussung

## *EMV-cable-fitting*
## *Protect against electro-magnetic influence*

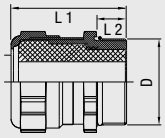
**IP 68**

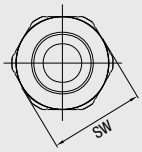
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **EMV-Kabelverschraubung** *EMV-cable fitting* | | | | |
| | M16 | | EMV.M16.MS | 1-1102772-6 |
| | M20 | | EMV.M20.MS | 2-1102772-0 |
| | M25 | | EMV.M25.MS | 2-1102772-5 |
| | M32 | | EMV.M32.MS | 3-1102772-2 |
| | M40 | | EMV.M40.MS | 4-1102772-0 |
| | M50 | | EMV.M50.MS | 5-1102772-0 |
| | | 16 | EMV.PG16 | 1-1106007-4 |
| | | 21 | EMV.PG21 | 1-1106007-9 |
| | | 29 | EMV.PG29 | 2-1106007-3 |




| D | ~L1 | L2 | SW | Kabel ø min | Kabel ø max |
|---|---|---|---|---|---|
| M16 | 27 | 5 | 17 | 5 | 9 |
| M20 | 30 | 6 | 22 | 8 | 13 |
| M25 | 35 | 7 | 27 | 11 | 16 |
| M32 | 40 | 8 | 34 | 15 | 21 |
| M40 | 45 | 8 | 43 | 19 | 27 |
| M50 | 50 | 9 | 55 | 26 | 35 |



| D | ~L1 | L2 | SW | Kabel ø min | Kabel ø max |
|---|---|---|---|---|---|
| PG 16 | 27 | 5 | 17 | 5 | 9 |
| PG 21 | 30 | 6 | 22 | 8 | 13 |
| PG 29 | 35 | 7 | 27 | 11 | 16 |



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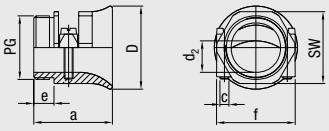
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

# Kabelverschraubungen und Zubehör/*Cable fittings and accessories*

## TDS-Kabelverschraubung AL-Druckguss
## DS-Kabelverschraubung Metall

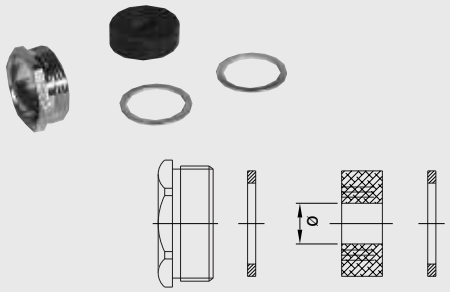
## *TDS cable fitting diecast aluminium alloy*
## *DS cable fitting metal*

| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **TDS-Kabelverschraubung:** AL-Druckguss mit Biegeschutz-Trompete und Zugentlastung *TDS cable fitting: Diecast aluminum alloy with bell mouth for cable bending protection and strain relief* | | 11 | TDS.11.M | 1-1106001-9 |
| | | 13,5 | TDS.13.M | 2-1106001-9 |
| | | 16 | TDS.16.M | 3-1106001-9 |
| | | 21 | TDS.21.M | 4-1106001-9 |
| | | 29 | TDS.29.M | 5-1106001-9 |
| | | 36 | TDS.36.M | 6-1106001-9 |
| | | 42 | TDS.42.M | 7-1106001-9 |




| PG | a | c | D | d 2 min | d 2 max | e | SW | f |
|---|---|---|---|---|---|---|---|---|
| 11 | 30 | M 3 | 27 | 8,5 | 12 | 8 | 22 | 25 |
| 13,5 | 32 | M 3 | 30 | 8,5 | 15 | 8,5 | 24 | 28 |
| 16 | 32 | M 4 | 32 | 10 | 17 | 9 | 27 | 30 |
| 21 | 35 | M 4 | 37 | 13,5 | 21,5 | 9 | 32 | 35 |
| 29 | 40 | M 5 | 52 | 19 | 29,5 | 9 | 46 | 50 |
| 36 | 50 | M 6 | 62 | 25 | 38 | 13 | 50 | 61,5 |
| 42 | 55,5 | M 6 | 65 | 30 | 43 | 16 | 55 | 64 |

| | | | | |
|---|---|---|---|---|
| **DS-Kabelverschraubung** aus Metall, mit 2 Druckringen und ausschneidbaren Dichtring *DS cable fitting metal, with 2 pressure rings and cut-out sealing ring* | | 11 | DS.11.DI | 1-1106004-9 |
| | | 13,5 | DS.13.DI | 2-1106004-9 |
| | | 16 | DS.16.DI | 3-1106004-9 |
| | | 21 | DS.21.DI | 4-1106004-9 |
| | | 29 | DS.29.DI | 5-1106004-9 |
| | | 36 | DS.36.DI | 6-1106004-9 |
| | | 42 | DS.42.DI | 7-1106004-9 |




| PG | ø min | ø max | SW |
|---|---|---|---|
| 11 | 7,5 | 12,5 | 18 |
| 13,5 | 7,5 | 12,5 | 20 |
| 16 | 7,5 | 15 | 22 |
| 21 | 10 | 19 | 28 |
| 29 | 18 | 27 | 37 |
| 36 | 24 | 33 | 47 |
| 42 | 30 | 39 | 54 |

**Dichtungsset** für Gehäuseserie HA.3 für IP 65 Dichtring
***Gastset*** *for series HA.3 hoods; IP 65*

| | | | |
|---|---|---|---|
| für HA.3 Stecker/*for series HA.3 hood* | | SetM3x8Dicht2 | 0-1103028-2 |
| für HA.3 Anbau-/Sockel- oder Kupplungsgehäuse/*for series HA.3 housings* | | SetM3x8Dicht1 | 0-1103028-1 |

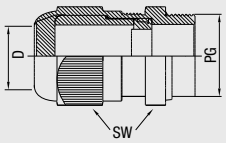
# Kabelverschraubungen und Zubehör/*Cable fittings and accessories*

## HUT-Verschraubung Kunststoff
## HUT-Verschraubung Messing, vernickelt

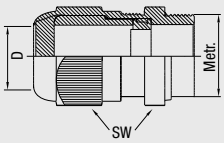
## *Gland fitting plastic*
## *Gland fitting brass, nickel plated*

**IP 68**

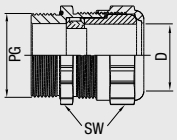
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **Hut-Verschraubung PG,** IP 68 aus Kunststoff *Gland fitting IP 68 plastic* | | | | |
| | | 11 | HUT.11.P | 1-1106005-7 |
| | | 13,5 | HUT.13.P | 2-1106005-7 |
| | | 16 | HUT.16.P | 3-1106005-7 |
| | | 21 | HUT.21.P | 4-1106005-7 |
| | | 29 | HUT.29.P | 5-1106005-7 |
| | | 36 | HUT.36.P | 6-1106005-7 |
| | | 42 | HUT.42.P | 7-1106005-7 |
| **Hut-Verschraubung M,** IP 68 aus Kunststoff *Gland fitting IP 68 plastic* | M16 | | HUT.M16.P | 1-1102771-6 |
| | M20 | | HUT.M20.P | 2-1102771-0 |
| | M25 | | HUT.M25.P | 2-1102771-5 |
| | M32 | | HUT:M32.P | 3-1102771-2 |
| | M40 | | HUT.M40.P | 4-1102771-0 |
| | M50 | | HUT.M50.P | 5-1102771-0 |
| **Hut-Verschraubung IP 68** Messing, vernickelt Neoprene-Dichteinsatz und O-Dichtring am Anschlussgewinde *Gland fitting IP 68 brass, nickel-plated neoprene sealing insert and O ring at connection thread* | | | | |
| | | 11 | HUT.11.MS | 1-1106006-9 |
| | | 13,5 | HUT.13.MS | 2-1106006-9 |
| | | 16 | HUT.16.MS | 3-1106006-9 |
| | | 21 | HUT.21.MS | 4-1106006-9 |
| | | 29 | HUT.29 MS | 5-1106006-9 |
| | | 36 | HUT.36.MS | 6-1106006-9 |
| | | 42 | HUT.42.MS | 7-1106006-9 |
| | M16 | | HUT.M16.MS | 1-1102770-6 |
| | M20 | | HUT.M20.MS | 2-1102770-0 |
| | M25 | | HUT.M25.MS | 2-1102770-5 |
| | M32 | | HUT.M32.MS | 3-1102770-2 |
| | M40 | | HUT.M40.MS | 4-1102770-0 |
| | M50 | | HUT.M50.MS | 5-1102770-0 |



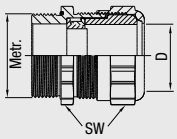

| PG | D min | D max | SW |
|---|---|---|---|
| 11 | 5 | 10 | 22 |
| 13,5 | 6 | 12 | 24 |
| 16 | 10 | 14 | 27 |
| 21 | 13 | 18 | 33 |
| 29 | 18 | 25 | 42 |
| 36 | 22 | 32 | 53 |
| 42 | 32 | 38 | 60 |




| Metr. | D min | D max | SW |
|---|---|---|---|
| M16 | 4 | 8 | 20 |
| M20 | 6 | 12 | 24 |
| M25 | 10 | 14 | 29 |
| M32 | 13 | 18 | 36 |
| M40 | 18 | 25 | 46 |
| M50 | 22 | 32 | 55 |




| PG | D min | D max | SW |
|---|---|---|---|
| 11 | 5 | 10 | 20 |
| 13,5 | 6 | 12 | 22 |
| 16 | 10 | 14 | 24 |
| 21 | 13 | 18 | 30 |
| 29 | 18 | 25 | 40 |
| 36 | 22 | 32 | 50 |
| 42 | 32 | 38 | 57 |




| Metr. | D min | D max | SW |
|---|---|---|---|
| M16 | 5 | 10 | 17 |
| M20 | 6 | 12 | 22 |
| M25 | 13 | 18 | 27 |
| M32 | 18 | 25 | 34 |
| M40 | 22 | 32 | 43 |
| M50 | 32 | 38 | 55 |



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

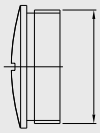
# Kabelverschraubungen und Zubehör/*Cable fittings and accessories*

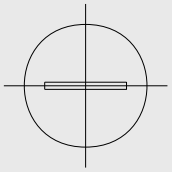
## GM-Gegenmuttern, BS-Blindstopfen, Zwischenstutzen 6kt
## Messing, vernickelt

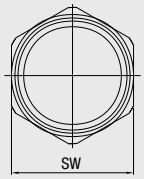
## *GM lock nut, BS blanking piece, hexagonal adaptor*
## *Brass, nickel plated*

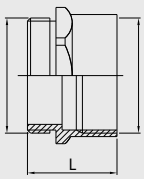
| Bezeichnung *Description* | Metr. | PG | Bestelltext *Designation* | Bestell-Nr. *Order No.* |
|---|---|---|---|---|
| **GM-Gegenmuttern Messing vernickelt,** bei dünnwandiger Gehäusewand Verschraubung kontern *GM lock nut brass nickel-plated, used to lock screwed fittings (housings with thin walls)* | | 11 | GM.11.SKT-MS | 1-1106055-2 |
| | | 13,5 | GM.13.SKT-MS | 2-1106055-2 |
| | | 16 | GM.16.SKT-MS | 3-1106055-2 |
| | | 21 | GM.21.SKT-MS | 4-1106055-2 |
| | | 29 | GM.29.SKT-MS | 5-1106055-2 |
| | | 36 | GM.36.SKT-MS | 6-1106055-2 |
| | | 42 | GM.42.SKT-MS | 7-1106055-2 |
| **BS-Blindstopfen Messing vernickelt** (O-Dichtring bitte separat bestellen) ***BS blanking piece brass nickel-plated*** *(please order O ring separately)* | | 11 | BS.11.MS | 1-1106056-3 |
| | | 13,5 | BS.13.MS | 2-1106056-3 |
| | | 16 | BS.16.MS | 3-1106056-3 |
| | | 21 | BS.21.MS | 4-1106056-3 |
| | | 29 | BS.29.MS | 5-1106056-3 |
| | | 36 | BS.36.MS | 6-1106056-3 |
| | | 42 | BS.42.MS | 7-1106056-3 |
| | M16 | | BS.M16.MS | 1-1102773-6 |
| | M20 | | BS.M20.MS | 2-1102773-0 |
| | M25 | | BS.M25.MS | 2-1102773-5 |
| | M32 | | BS.M32.MS | 3-1102773-2 |
| | M40 | | BS.M40.MS | 4-1102773-0 |
| | M50 | | BS.M50.MS | 5-1102773-0 |
| **Zwischenstutzen-6kt. Messing vernickelt** (O-Dichtring bitte separat bestellen) ***Hexagonal adaptor brass, nickel-plated*** *(please order O ring separately)* | | 11 | ZW.ST.11.SKT-MS | 1-1106057-4 |
| | | 13,5 | ZW.ST.13.SKT-MS | 2-1106057-4 |
| | | 16 | ZW.ST.16.SKT-MS | 3-1106057-4 |
| | | 21 | ZW.ST.21.SKT-MS | 4-1106057-4 |
| | | 29 | ZW.ST.29.SKT-MS | 5-1106057-4 |
| | | 36 | ZW.ST.36.SKT-MS | 6-1106057-4 |
| | | 42 | ZW.ST.42.SKT-MS | 7-1106057-4 |

| SW | Stärke *Thickness* |
|---|---|
| 21 | 3 |
| 23 | 3 |
| 26 | 3 |
| 32 | 3,5 |
| 41 | 4 |
| 51 | 5 |
| 60 | 5 |








| PG | L | SW |
|---|---|---|
| 11 | 17 | 20 |
| 13,5 | 19 | 22 |
| 16 | 20 | 24 |
| 21 | 22 | 30 |
| 29 | 24,5 | 40 |
| 36 | 28,5 | 50 |
| 42 | 32 | 57 |

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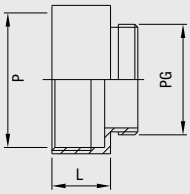
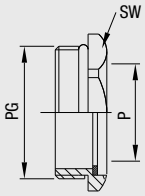
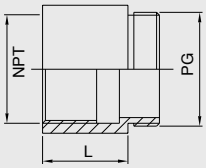
# Kabelverschraubungen und Zubehör/*Cable fittings and accessories*

## ERW-Erweiterung, REDU 6kt, Messing, vernickelt
## Adapter NPT-PG

## *ERW increasing piece, REDU hexagonal reducing piece, Brass, nickel plated*
## *Adaptor NPT-PG*

| Bezeichnung<br>*Description* | Metr. | PG | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* |
|---|---|---|---|---|
| **ERW-Erweiterung** Messing vernickelt<br>***ERW increasing piece*** *brass, nickel-plated* | | | | |
|  | | 11\13,5 | ERW.11/13.MS | 1-1106058-5 |
| | | 11\16 | ERW.11/16.MS | 7-1106058-5 |
| | | 13,5\16 | ERW.13/16.MS | 2-1106058-5 |
| | | 13,5\21 | ERW.13/21.MS | 8-1106058-5 |
| | | 16\21 | ERW.16/21.MS | 3-1106058-5 |
| | | 21\29 | ERW.21/29.MS | 4-1106058-5 |
| | | 29\36 | ERW.29/36.MS | 5-1106058-5 |
| **REDU-6kt. Reduzierung** Messing vernickelt<br>***REDU hexagonal reducing piece*** *brass, nickel-plated* | | | | |
|  | | 13,5\9 | REDU.13/09.MS.8 | 8-1106062-6 |
| | | 13,5\11 | REDU.13/11.MS.8 | 2-1106062-6 |
| | | 16\11 | REDU.16/11.MS.8 | 9-1106062-6 |
| | | 16\13 | REDU.16/13.MS.8 | 3-1106062-6 |
| | | 21\13 | REDU.21/13.MS.8 | 0-1106062-6 |
| | | 21\16 | REDU.21/16.MS.8 | 4-1106062-6 |
| | | 29\16 | REDU.29/16.MS.8 | 0-1106062-7 |
| | | 29\21 | REDU.29/21.MS.8 | 5-1106062-6 |
| | | 36\21 | REDU.36/21.MS.8 | 1-1106062-7 |
| | | 36\29 | REDU.36/29.MS.8 | 6-1106062-6 |
| **Adapter NPT-PG**<br>***Adapter NPT-PG*** | | | | |
|  | | 11/3/8" | Ü-PG.11-NPT.3/8 | 1-1106066-8 |
| | | 13,5/1/2" | Ü-PG.13-NPT.1/2 | 2-1106066-8 |
| | | 16/1/2" | Ü-PG.16-NPT.1/2 | 3-1106066-8 |
| | | 21/3/4" | Ü-PG.21-NPT.3/4 | 4-1106066-8 |
| | | 36/1 1/4" | Ü-PG.36-NPT.1 1/4 | 6-1106066-8 |

| PG | P | L |
|---|---|---|
| 11 | 13,5 | 11,5 |
| 11 | 16 | 11,5 |
| 13,5 | 16 | 12,5 |
| 13,5 | 21 | 12,5 |
| 16 | 21 | 14,5 |
| 21 | 29 | 16 |
| 29 | 36 | 19,5 |
| 36 | 42 | 22 |

| PG | P | SW |
|---|---|---|
| 11 | 9 | 20 |
| 13,5 | 9 | 24 |
| 13,5 | 11 | 24 |
| 16 | 11 | 24 |
| 16 | 13,5 | 24 |
| 21 | 13,5 | 32 |
| 21 | 16 | 41 |
| 29 | 16 | 41 |
| 29 | 21 | 41 |
| 36 | 21 | 50 |
| 36 | 29 | 50 |
| 42 | 29 | 60 |

| PG | NPT | L |
|---|---|---|
| 11 | 3/8" | 14 |
| 13,5 | 1/2" | 18 |
| 16 | 1/2" | 18 |
| 21 | 3/4" | 18 |
| 36 | 1 1/4" | 20 |
| 42 | 1 1/4" | 18 |



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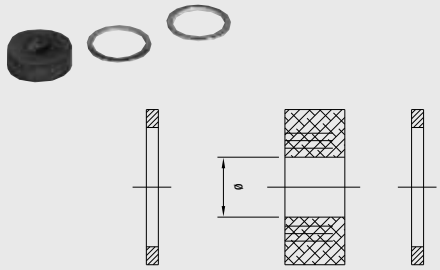
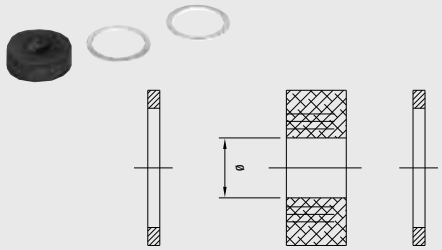
# Kabelverschraubungen und Zubehör/*Cable fittings and accessories*

## ERW-Erweiterung, REDU 6kt, Messing, vernickelt
## Adapter NPT-PG

## *ERW increasing piece, REDU hexagonal reducing piece, Brass, nickel plated*
## *Adaptor NPT-PG*

| Bezeichnung<br>*Description* | Metr. | PG | Bestelltext<br>*Designation* | Bestell-Nr.<br>*Order No.* |
|---|---|---|---|---|
| **Ausschneidbarer Dichtring** Neoprene schwarz, mit 2 Metall-Druckscheiben<br>***Cut-out sealing ring*** *Neoprene black 2 metal pressure rings* | | | | |
|  | | 11 | ASD.11.N | 1-1106050-1 |
| | | 13,5 | ASD.13.N | 2-1106050-1 |
| | | 16 | ASD.16.N | 3-1106050-1 |
| | | 21 | ASD.21.N | 4-1106050-1 |
| | | 29 | ASD.29.N | 5-1106050-1 |
| | | 36 | ASD.36.N | 6-1106050-1 |
| | | 42 | ASD.42.N | 7-1106050-1 |
| **Ausschneidbarer Dichtring** für K-Serie<br>***Cut-out sealing ring*** *for K-series* | | | | |
| | | 16 | ASD-K.16.N | 3-1106051-1 |
| | | 21 | ASD-K.21.N | 4-1106051-1 |
| | | 29 | ASD-K.29.N | 5-1106051-1 |
| **Viton,** mit 2 Kunststoff-Druckscheiben, für hohe Temperaturen<br>***Viton,*** *2 plastic pressure rings for high temperatures* | | | | |
|  | | 11 | ASD-K.11.V | 1-1106052-1 |
| | | 21 | ASD-K.21.V | 4-1106052-1 |
| | | 36 | ASD-K.36.V | 6-1106052-1 |
| | | 42 | ASD-K.42.V | 7-1106052-1 |
| **O-Dichtringe** Standard schwarz<br>***O rings*** *standard black* | | | | |
| | M20 | 11 | O-RING.11.SCHW | 1-1106053-1 |
| | | 13,5 | O-RING.13.SCHW | 2-1106053-1 |
| | M25 | 16 | O-RING.16.SCHW | 3-1106053-1 |
| | M32 | 21 | O-RING.21.SCHW | 4-1106053-1 |
| | M40 | 29 | O-RING.29.SCHW | 5-1106053-1 |
| | M50 | 36 | O-RING.36.SCHW | 6-1106053-1 |
| | | 42 | O-RING.42.SCHW | 7-1106053-1 |
| **O-Dichtringe** Viton, für hohe Temperaturen bis 200° C Dauertemperatur<br>***O rings*** *Viton, for high temperatures (up to 200° C permanent temperature)* | | | | |
| | M20 | 11 | O-RING.11.VITON | 1-1106053-2 |
| | | 13,5 | O-RING.13.VITON | 2-1106053-2 |
| | M40 | 29 | O-RING.29.VITON | 5-1106053-2 |
| | | 42 | O-RING.42.VITON | 7-1106053-2 |

| PG | D min | D max |
|---|---|---|
| 11 | 7,5 | 12,5 |
| 13,5 | 7,5 | 12,5 |
| 16 | 7,5 | 15 |
| 21 | 10 | 19 |
| 29 | 18 | 27 |
| 36 | 24 | 33 |
| 42 | 30 | 39 |

| PG | D min | D max |
|---|---|---|
| 11 | 7,5 | 12,5 |
| 13,5 | 7,5 | 12,5 |
| 16 | 7,5 | 15 |
| 21 | 10 | 19 |
| 29 | 18 | 27 |
| 36 | 24 | 33 |
| 42 | 30 | 39 |

| Innen-Durchmesser x Schnurstärke<br>*Inner diameter x ring diameter* |
|---|
| 16x1,5 |
| 18x1,5 |
| 20x1,5 |
| 26x2 |
| 34x2 |
| 44x2 |
| 50x2 |

## HF-Modul/*HF-Module*

**150 A HF 06-Kontakt**

***150 A HF 06-contact***

**Kontaktzahlen**
***No. of contacts***

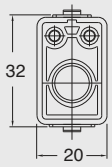
**1 + 2**

**1000V/*150A, 250V/10A***

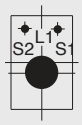
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | | MDL2.1+2.Sti.C | 0-1103024-1 | |
| | | MDL2.1+2.Bu.C | | 0-1103024-2 |

Passende Crimpkontakte siehe Seite 34 + 41, Passende Crimpwerkzeuge siehe Seite 34 + 42
*Suitable Crimp contacts see page 34 + 41, Suitable Crimping tools see page 34 + 42*

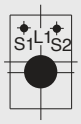
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## HSS Modul/*HSS Module*

**für HSS Crimp Kontakte**

***for HSS crimp contacts***

**Kontaktzahlen**
***No. of contacts***

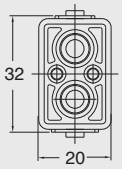
**2 + 2**

**1000V/*63A, 250V/10A***

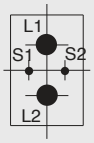
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | | MDL2.2+2.Sti.C | 0-1103019-1 | |
| | | MDL2.2+2.Bu.C | | 0-1103019-2 |

Passende Crimpkontakte siehe Seite 34 + 41, Passende Crimpwerkzeuge siehe Seite 34 + 41
*Suitable Crimp contacts see page 34 + 41, Suitable Crimping tools see page 34 + 41*

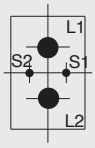
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HSM Modul/*HSM Module*

**für HSM Crimp Kontakte**

***for HSM crimp contacts***

**Kontaktzahlen**
***No. of contacts***

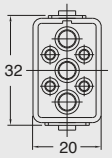
**3 + 4**

**1000V/*40A, 250V/10A***

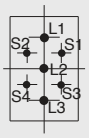
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | | MDL2.3+4.Sti.C | 0-1103018-1 | |
| | | MDL2.3+4.Bu.C | | 0-1103018-2 |

Passende Crimpkontakte siehe Seite 34 + 40, Passende Crimpwerkzeuge siehe Seite 34 + 40
*Suitable Crimp contacts see page 34 + 40, Suitable Crimping tools see page 34 + 40*

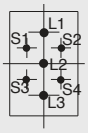
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## HVT-Modul/*HVT-Module*

**für HVT Crimp Kontakte**

***for HVT crimp contacts***

**Kontaktzahlen**
***No. of contacts***

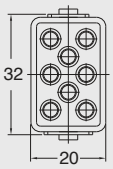
**8**

***400V/16A***

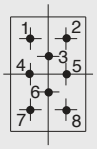
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | | MDL2.8.Sti.C | 0-1103015-1 | |
| | | MDL2.8.Bu.C | | 0-1103015-2 |

Passende Crimpkontakte siehe Seite 38, Passende Crimpwerkzeuge siehe Seite 38
*Suitable Crimp contacts see page 38 Suitable Crimping tools see page 38*

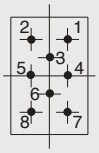
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*



## HN.D-Modul/*HN.D-Module*

**für HN.D Crimp Kontakte**

***for HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

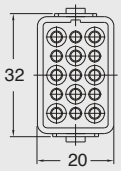
**15**

***400V/10A***

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | MDL2.HN.D.15.Sti.C | 0-1103017-1 | |
| | MDL2.HN.D.18.Sti.C | 0-1103076-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | MDL2.HN.D.15.Bu.C | | 0-1103017-2 |
| | MDL2.HN.D.18.Bu.C | | 0-1103076-2 |

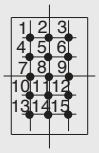
Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

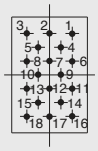
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

15 polig/*pole*

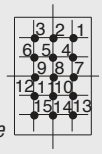


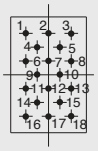


18 polig/*pole*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

15 polig/*pole*





18 polig/*pole*

## HD-Modul/*HD-Module*

**für HD.M Crimp Kontakte**

***for HD.M crimp contacts***

**Kontaktzahlen**
***No. of contacts***

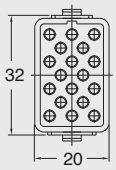
**18**

***250V/10A***

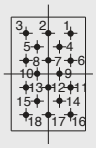
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | MDL2.HD.18.Sti.C | 0-1103016-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | MDL2.HD.18.Bu.C | | 0-1103016-2 |

Passende Crimpkontakte siehe Seite 35, Fiberkontakte siehe Seite 44, Passende Crimpwerkzeuge siehe Seite 35 + 44
*Suitable Crimp contacts see page 35, Suitable fiber contacts see page 44, Suitable Crimping tools see page 35 + 44*

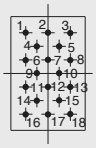
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*



Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*





Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Dynamic 2800 Modul/*Dynamic 2800 Module*

**für Dynamic Kontakte**

***for Dynamic contacts***

**Kontaktzahlen**
***No. of contacts***

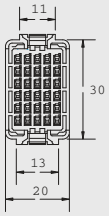
**30**

***250V/5A***

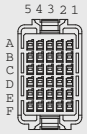
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | | Dynamic D-2800 Rec Hsg 30p | 0-1747365-1 | |
| | | Dynamic D-2800 Tab Hsg 30p | | 0-1747366-1 |

Passende Kontakte siehe Seite 33, Passende Werkzeuge siehe Seite 33
*Suitable Contacts see page 33, Suitable tools see page 33*

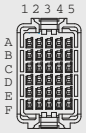
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## Dynamic 3800 Modul/*Dynamic 3800 Module*

**für Dynamic Kontakte**

***for Dynamic contacts***

**Kontaktzahlen**
***No. of contacts***

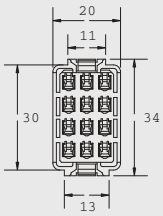
**12**

***600V/8A***

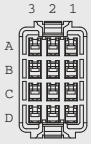
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | | Dynamic D-3800 | 0-1747363-1 | |
| | | Dynamic D-3800 | | 0-1747364-1 |

Passende Kontakte siehe Seite 33, Passende Werkzeuge siehe Seite 33
*Suitable Contacts see page 33, Suitable tools see page 33*

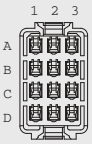
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Twinax-Modul/*Twinax-Module*

**für HVT Kontakte**

***for HVT contacts***

**Kontaktzahlen**
***No. of contacts***

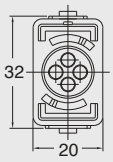
**4**

***150V/16A***

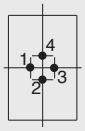
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* / Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | MDL2.TX4.5,4.Sti.C | 0-1103023-1 | |
| | MDL2.TX4.8,5.Sti.C | 0-1103022-1 | |
| | MDL2.TX.MVB.Sti.C | 0-1108785-1 | |
| | MDL2.TX4.5,4.Bu.C | | 0-1103023-2 |
| | MDL2.TX4.8,5.Bu.C | | 0-1103022-2 |
| | MDL2.TX.MVB.Bu.C | | 0-1108786-1 |

Passende Crimpkontakte siehe Seite 38, Passende Crimpwerkzeuge siehe Seite 38
*Suitable Crimp contacts see page 38, Suitable Crimping tools see page 38*

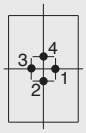
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## Koax-Modul/*Coax-Module*

**für Coax Crimp Kontakte**

***for Coax crimp contacts***

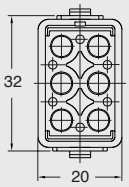
**Kontaktzahlen**
***No. of contacts***

**6**

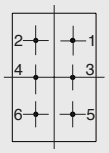
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* / Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
| | MDL2.KX.58/59.Sti | 0-1103021-1 | |
| | MDL2.KX.58/59.Bu | | 0-1103021-2 |

Passende Kontakte siehe Seite 43, Passende Werkzeuge siehe Seite 43
*Suitable contacts see page 43, Suitable tools see page 41*

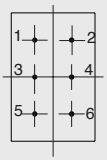
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Koax-VT-Modul/*Coax-VT-Module*

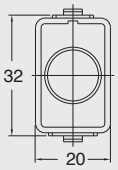
**Kontaktzahlen**
***No. of contacts***

**1**

| Bezeichnung<br>*Description* | | Bestelltext<br>*Designation* | Bestell-Nr./*Order No.*<br>Stifteinsatz<br>*Male insert* | Bestell-Nr./*Order No.*<br>Buchseneinsatz<br>*Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte<br>*Top part for male contacts* | | MDL2.KX.VT.Sti | 0-1103020-1 | |
| Unterteil für Buchsenkontakte<br>*Bottom part for female contacts* | | MDL2.KX.VT.Bu | | 0-1103020-2 |

Passende Coax Kontakte siehe Seite 43 (Typ KX.VT)
*Suitable Coax contacts see page 43 (Type KX.VT)*

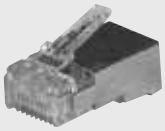
**Maßbild mm**
***Dimensions mm***




**Kontaktzahlen**
***No. of contacts***

**8**

## Ethernet Anwendung mit RJ45/*Ethernet application with RJ45*

| Bezeichnung<br>*Description* | | Bestelltext<br>*Designation* | Bestell-Nr./*Order No.*<br>Jack | Bestell-Nr./*Order No.*<br>Plug |
|---|---|---|---|---|
| Oberteil/*Top part* | | MDL2.45.Jack.5e*<br>MDL2.45.Jack.2** | 0-1108812-1<br>0-1108812-2 | |
| Unterteil/*Bottom part* | | MDL2.45.Plug | | 0-1108813-1 |
| |  | MJ Plug ,Cat5 | | 5-569550-4 |

*CAT5e
**CAT2

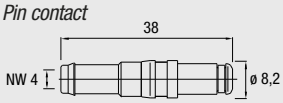
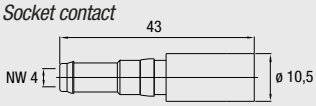
Passendes Werkzeug: 1-853400-0
*Suitable tool: 1-853400-0*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

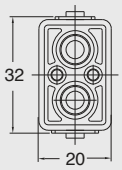
## Pneumatik Modul/*Pneumatic Module* — 10 bar

**Kontaktzahlen**
***No. of contacts***

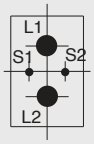
**2 + 2**

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil/*Top part* | MDL2-AIR.Sti* | 0-1103025-1 | |
| Unterteil/*Bottom part* | MDL2-AIR.Bu* | | 0-1103025-2 |
| **Kontakte/*contacts*** Stiftkontakt *Pin contact*   | AIR.Sti.4mm,VA | 0-1105354-1 | |
| Buchsenkontakt *Socket contact*   | AIR.Bu.V4VA mit Ventil/*with valve* | | 0-1105355-1 |
| | AIR.Bu.4VA ohne Ventil/*without valve* | | 0-1105355-2 |
| Ausdrückwerkzeug/*Extraction tool* | Ausdrückwerkzeug | 0-1102985-1 | |

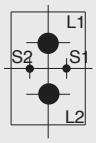
**Maßbild mm**
***Dimensions mm***



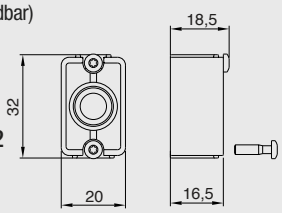
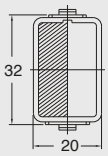

Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## Erdmodul/*Earth-Module*, Blindmodul/*Blind-Module*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Bestell-Nr./*Order No.* Unterteil *Bottom part* |
|---|---|---|---|
| Blindmodul/*Blind module* Modulkörper für Erdkontaktierung (für Stift und Buchse verwendbar) *Modular block for earth* Passende Kontakte siehe Seite 42 *Suitable contacts see page 42*   | MDL.E.C-6mm | 0-1110957-1 | |
|   | MDL2.Blindmodul | 0-1103014-1 | |



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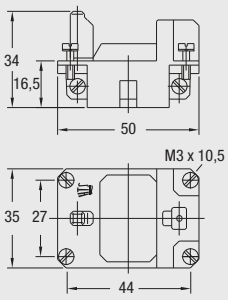
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

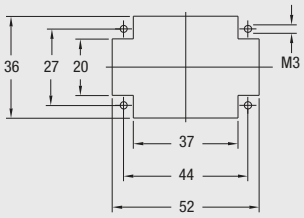
## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 3/4*

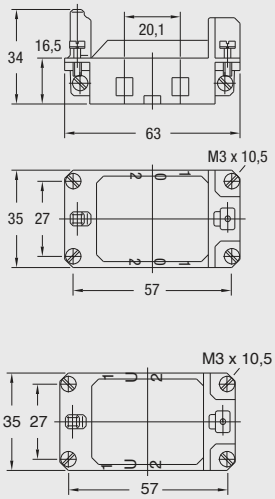
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | MDL2-GR.O/U-3 | 0-1108784-1 | 0-1108784-1 |
| Halterahmen/*Fixing frame* | MDL2-GR.O-4/B.1-2<br>MDL2-GR.U-4/B.1-2 | 0-1108783-1 | 0-1108783-2 |




Für Modul MDL Seite 194–203
*For module MDL page 194–203*

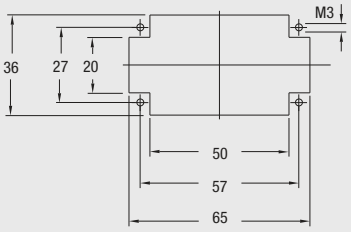
Montageausschnitt/*Panel cut-out*



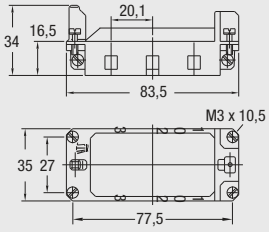
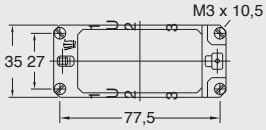
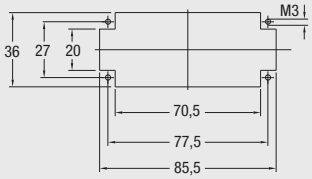
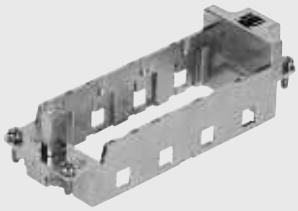
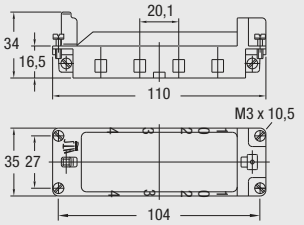
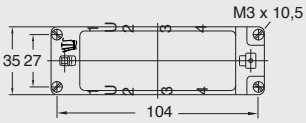
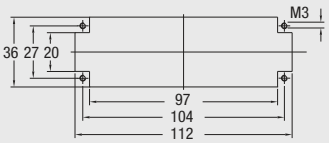



Für Modul MDL Seite 194–203
*For module MDL page 194–203*

Montageausschnitt/*Panel cut-out*



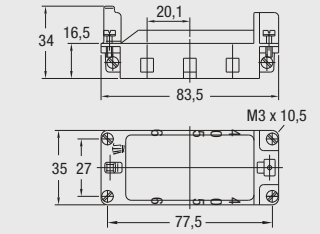
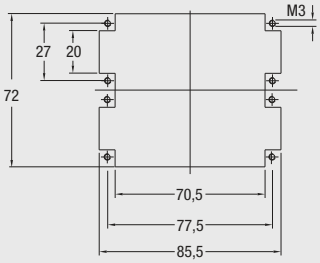
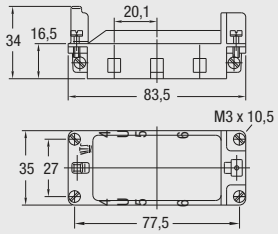
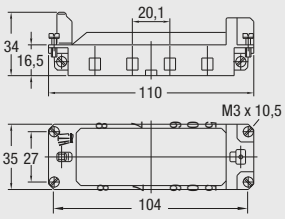
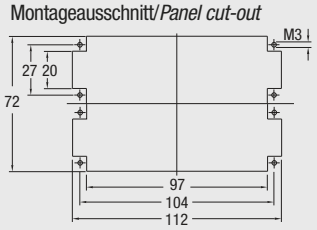
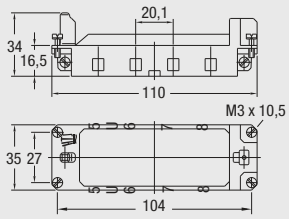
## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 6/8*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
|   | MDL2-GR.O-6/B.1-3 | 0-1108782-1 | |
|   | MDL2-GR.U-6/B.1-3 | | 0-1108782-2 |
| Montageausschnitt/*Panel cut-out*   | | | |
|    | MDL2-GR.O-8/B.1-4 | 0-1108780-1 | |
|   | MDL2-GR.U-8/B.1-4 | | 0-1108780-2 |
| Montageausschnitt/*Panel cut-out*   | | | |



Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 10/12*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame*   Montageausschnitt/*Panel cut-out*   | MDL2-GR.O-6/B.1-3<br>MDL2-GR.O-6/B.4-6 | 0-1108782-1<br>0-1108782-4 | |
|   | MDL2-GR.U-6/B.1-3<br>MDL2-GR.U-6/B.4-6 | | 0-1108782-2<br>0-1108782-5 |
|   Montageausschnitt/*Panel cut-out*   | MDL2-GR.O-8/B.1-4<br>MDL2-GR.O-8/B.5-8 | 0-1108780-1<br>0-1108780-6 | |
|   | MDL2-GR.U-8/B.1-4<br>MDL2-GR.U-8/B.5-8 | | 0-1108780-2<br>0-1108780-7 |

## HVS-HSS-Modul/*HVS-HSS-Module*

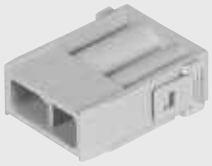
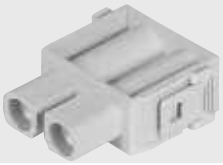
**für HSS Crimp Kontakte**

***for HSS crimp contacts***

**Kontaktzahlen**
***No. of contacts***

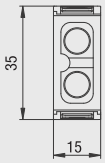
**2**

***500V/63A***

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
|  |  | HVS-HSS.2.Sti.C | 0-1103275-1 | |
| | | HVS-HSS.2.Bu.C | | 0-1103274-1 |

Passende Crimpkontakte siehe Seite 41, Passende Crimpwerkzeuge siehe Seite 41
*Suitable Crimp contacts see page 41, Suitable Crimping tools see page 41*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

## HVS-HSK-Modul/*HVS-HSK-Module*

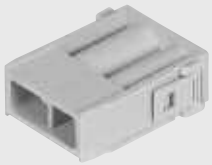
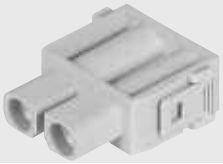
**für HSK Crimp Kontakte**

***for HSK crimp contacts***

**Kontaktzahlen**
***No. of contacts***

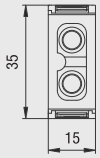
**2**

***1000V/40A***

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | Unterteil für Buchsenkontakte *Bottom part for female contacts* | | | |
|  |  | HVS-HSK.2.Sti.C | 0-1103270-1 | |
| | | HVS-HSK.2.Bu.C | | 0-1103271-1 |

Passende Crimpkontakte siehe Seite 39, Passende Crimpwerkzeuge siehe Seite 39
*Suitable Crimp contacts see page 39, Suitable Crimping tools see page 39*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HVS-HSK-Modul/*HVS-HSK-Module*

**für HSK Crimp Kontakte**

***for HSK crimp contacts***

**Kontaktzahlen**
***No. of contacts***

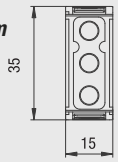
**3**

***690V/40A***

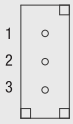
| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | | HVS-HSK.3.Sti.C | 0-1103272-1 | |
| | Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-HSK.3.Bu.C | | 0-1103273-1 |

Passende Crimpkontakte siehe Seite 39, Passende Crimpwerkzeuge siehe Seite 39
*Suitable Crimp contacts see page 39, Suitable Crimping tools see page 39*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

## HVS-HE 5-Modul/*HVS-HE 5-Module*

**für HE Spring Clamp Kontakte**

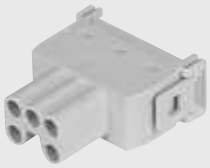
***for HE spring clamp contacts***

**Kontaktzahlen**
***No. of contacts***

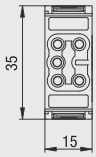
**5**

***400V/16A***

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | | HVS-HE.5.Sti.SC | 0-1103133-1 | |
| | Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-HE.5.Bu.SC | | 0-1103134-1 |



**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HVS-HE 6-Modul/*HVS-HE 6-Module*

**für HE Crimp Kontakte**

***for HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

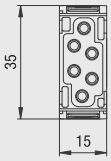
**6**

***500V/16A***

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | | HVS-HE.6.Sti.C | 0-1103244-1 | |
| | Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-HE.6.Bu.C | | 0-1103245-1 |

Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

## HVS-HE 8-Modul/*HVS-HE 8-Module*

**für HE Crimp Kontakte**

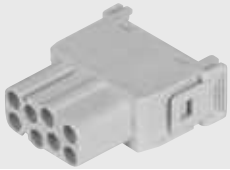
***for HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**8**

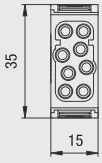
***400V/16A***

| Bezeichnung *Description* | | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | | HVS-HE.8.Sti.C | 0-1103140-1 | |
| | Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-HE.8.Bu.C | | 0-1103141-1 |



Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HVS-HE 20-Modul/*HVS-HE 20-Module*

**für HE Crimp Kontakte**

***for HE crimp contacts***

**Kontaktzahlen**
***No. of contacts***

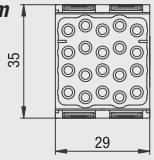
**20**

***500V/16A***

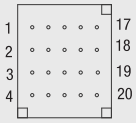
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-HE.20.Sti.C | 0-1103144-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-HE.20.Bu.C | | 0-1103145-1 |

Passende Crimpkontakte siehe Seite 37, Passende Crimpwerkzeuge siehe Seite 37
*Suitable Crimp contacts see page 37, Suitable Crimping tools see page 37*

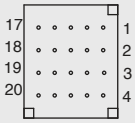
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## HVS-HN.D.12-Modul/*HVS-HN.D.12-Module*

**für HN.D Crimp Kontakte**

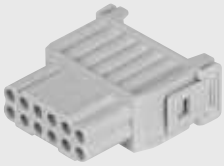
***for HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**12**

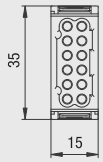
***250V/10A***

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-HN.D.12.Sti.C | 0-1103277-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-HN.D.12.Bu.C | | 0-1103276-1 |



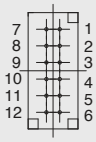
Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*



## HVS-HN.D.17-Modul/*HVS-HN.D.17-Module*

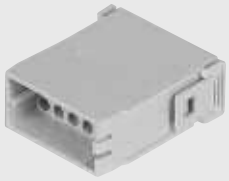
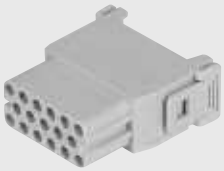
**für HN.D Crimp Kontakte**

***for HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

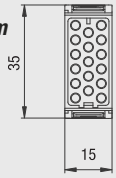
**17**

***250V/10A***

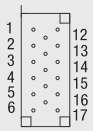
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts*  | HVS-HN.D.17.Sti.C | 0-1103278-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts*  | HVS-HN.D.17.Bu.C | | 0-1103279-1 |

Passende Crimpkontakte siehe Seite 34, Passende Crimpwerkzeuge siehe Seite 34
*Suitable Crimp contacts see page 34, Suitable Crimping tools see page 34*

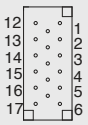
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## HVS-MM.17-Modul/*HVS-MM.17-Module*

**für HD Crimp Kontakte, POF Optische Kontakte**

***for HD crimp contacts, POF Fiber contacts***

**Kontaktzahlen**
***No. of contacts***

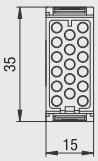
**17**

***250V/10A***

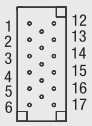
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-MM.17.Sti.C | 0-1103280-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-MM.17.Bu.C | | 0-1103281-1 |

Passende Crimpkontakte siehe Seite 35 + 44, Passende Crimpwerkzeuge siehe Seite 35 + 44
*Suitable Crimp contacts see page 35 + 44, Suitable Crimping tools see page 35 + 44*

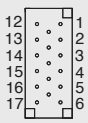
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*






Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## HVS-S20 DF-Modul/*HVS-S20 DF-Module*

**für Sub D Crimp Kontakte**

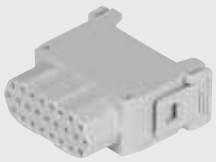
***for Sub D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**25**

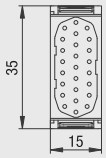
***50V/5A***

| **Bezeichnung** *Description* | **Bestelltext** *Designation* | **Bestell-Nr./** *Order No.* **Stifteinsatz** *Male insert* | **Buchseneinsatz** *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-S20DF.25.Sti.C | 0-1103260-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-S20DF.25.Bu.C | | 0-1103261-1 |

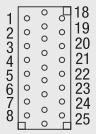


Passende Crimpkontakte siehe Seite 32, Passende Crimpwerkzeuge siehe Seite 32
*Suitable Crimp contacts see page 32, Suitable Crimping tools see page 32*

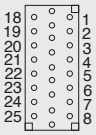
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## HVS-TX-Modul/*HVS-TX-Module*

**für HN.D Crimp Kontakte**

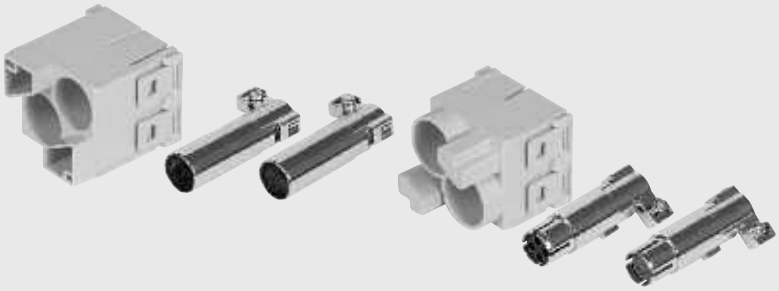
***for HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

**2**

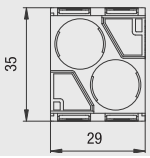
***50V/10A, 50V/5A***

| **Bezeichnung** *Description* | **Bestelltext** *Designation* | **Bestell-Nr./** *Order No.* **Stifteinsatz** *Male insert* | **Buchseneinsatz** *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-TX.2.Sti | 0-1103267-1 | |
| | HVS-TX.HN.D.4.Sti.C | 0-1103283-1 | |
| | HVS-TX.S20DF.8.Sti.C | 0-1103291-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-TX.2.Bu | | 0-1103269-1 |
| | HVS-TX.HN.D.4.Bu.C | | 0-1103286-1 |
| | HVS-TX.S20DF.8.Bu.C | | 0-1103297-1 |

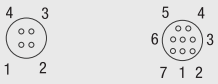


Passende HN.D Crimpkontakte siehe Seite 34, passende S20DF Crimpkontakte siehe Seite 32, Passende Crimpwerkzeuge siehe Seite 32/34
*Suitable HN.D Crimp contacts see page 34, suitable S20DF Crimp contacts see page 32, Suitable Crimping tools see page 32/34*

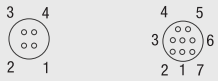
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*



## HVS-MVB-Modul/*HVS-MVB-Module*

**für HN.D Crimp Kontakte**

***for HN.D crimp contacts***

**Kontaktzahlen**
***No. of contacts***

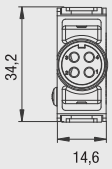
**4/8**

***50V/10A, 50V/5A***

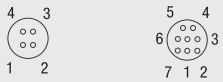
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-MVB.HND.4.Sti.C | 0-1103251-1 | |
| | HVS-MVB.S20DF.8.Sti.C | 0-1103258-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-MVB.HND.4.Bu.C | | 0-1103253-1 |
| | HVS-MVB.S20DF.8.Bu.C | | 0-1103259-1 |

Passende HN.D Crimpkontakte siehe Seite 34, passende S20DF Crimpkontakte siehe Seite 32, Passende Crimpwerkzeuge siehe Seite 32/34
*Suitable HN.D Crimp contacts see page 34, suitable S20DF Crimp contacts see page 32, Suitable Crimping tools see page 32/34*

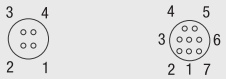
**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*




Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*




## HVS-Air-Modul/*HVS-Air-Module*

**für Air Kontakte**

***for Air contacts***

**Kontaktzahlen**
***No. of contacts***

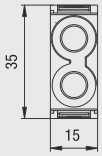
**2**

***10 bar***

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Stifteinsatz *Male insert* | Bestell-Nr./*Order No.* Buchseneinsatz *Female insert* |
|---|---|---|---|
| Oberteil für Stiftkontakte *Top part for male contacts* | HVS-Air.2.Sti | 0-1103246-1 | |
| Unterteil für Buchsenkontakte *Bottom part for female contacts* | HVS-Air.2.Bu | | 0-1103247-1 |

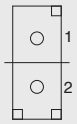
Passende Kontakte siehe Seite 200
*Suitable Contacts see page 200*

**Maßbild mm**
***Dimensions mm***




Kontaktanordnung Anschlußseite: Oberteil
*Contact arrangement termination side: top part*

Kontaktanordnung Anschlußseite: Unterteil
*Contact arrangement termination side: bottom part*

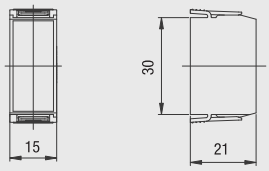





Verbindlich für Toleranzen der Abmessungen und technische Werte sind ausschließlich die neuesten TE Connectivity Kundenzeichnungen bzw. Produkt-Spezifikationen, die Sie auf Anfrage erhalten.
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

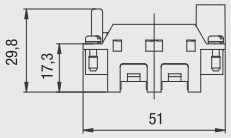
## Blindmodul/*Blind-Module*

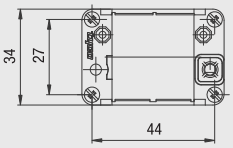
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* |
|---|---|---|
| Blindmodul/*Blind module* | HVS-Blindmodul | 0-1103266-1 |



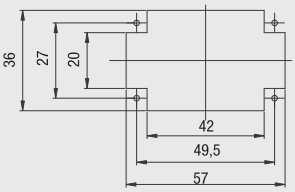

## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 3/4*

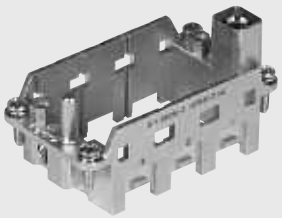
| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Bestell-Nr./*Order No.* Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
| | HVS-R.O 1-2 | 0-1103250-7 | |
| | HVS-R.U 1-2 | | 0-1103250-8 |
| | HVS-R.O 1-3 | 0-1103250-5 | |
| | HVS-R.U 1-3 | | 0-1103250-6 |

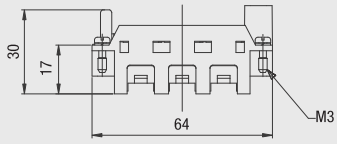


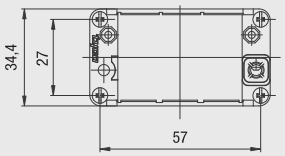




Montageausschnitt/*Panel cut-out*

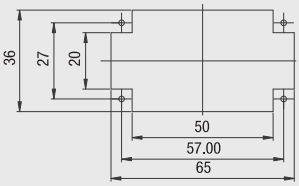


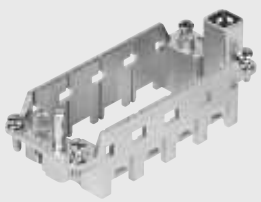
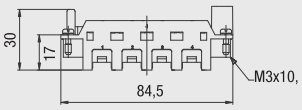
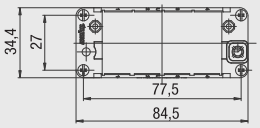
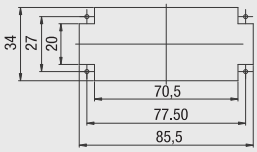
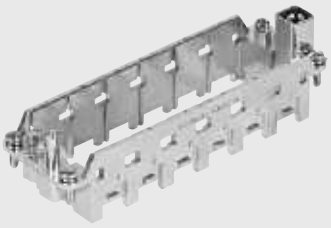
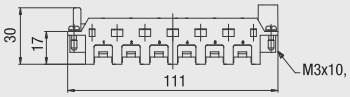
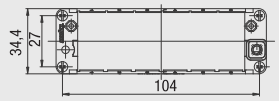
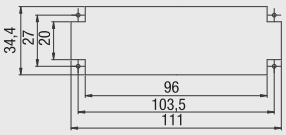



Montageausschnitt/*Panel cut-out*



## Modul Halterahmen/*Module Fixing Frame* — Baugröße/*Size 6/8*

| Bezeichnung *Description* | Bestelltext *Designation* | Bestell-Nr./*Order No.* Oberteil *Top part* | Bestell-Nr./*Order No.* Unterteil *Bottom part* |
|---|---|---|---|
| Halterahmen/*Fixing frame* | | | |
|    | HVS-R.O 1-4 | 0-1103250-3 | |
|   | HVS-R.U 1-4 | | 0-1103250-4 |
| Montageausschnitt/*Panel cut-out*   | | | |
|    | HVS-R.O 1-6 | 0-1103250-1 | |
|   | HVS-R.U 1-6 | | 0-1103250-2 |
| Montageausschnitt/*Panel cut-out*   | | | |
| Kodierset für Modulrahmen Serie HVS mit 36 Kodiemöglichkeiten<br>*Coding set for Module fixing frames Series HVS with 36 coding possibilities* | Codeset HVS | 530341-1 | |



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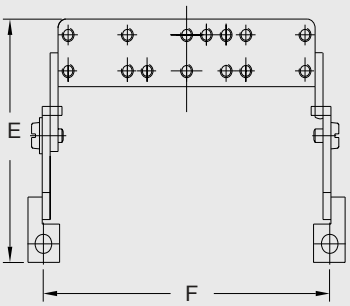
*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

## Schirmkontaktbügel/*Screen termination*

**zur nachträglichen Montage am Modulrahmen Serie MDL.2**

***or post-assembly on Module fixing frame series MDL.2***

| Bezeichnung<br>*Description* | Maßbild mm<br>*Dimensions mm* | | **Bestelltext**<br>***Designation*** | **Bestell-Nr.**<br>***Order No.*** |
|---|---|---|---|---|
| |  | | | |
| Schirmkontaktbügel, schwenkbar<br>*Screen termination, rotatable* | Maß/*Measure* mm<br>E | F | | |
| Baugröße/*Size* 3 | 45,4 | 36 | MDL.2-SBS.Bg3 | 2-1106310-9 |
| Baugröße/*Size* 4 | 45,4 | 52 | MDL.2-SBS.Bg4 | 2-1106311-9 |
| Baugröße/*Size* 6 | 45,4 | 72,5 | MDL.2-SBS.Bg6 | 2-1106312-9 |
| Baugröße/*Size* 8 | 53,9 | 96 | MDL.2-SBS.Bg8 | 2-1106313-9 |

## Zubehör für Schirmkontaktbügel/Accessories for *screen termination*

| | | |
|---|---|---|
| Schellenset<br>*Cable clamp* | Schellenset/*Cable clamp*<br>4,5mm<br>5mm<br>6mm<br>7mm<br>8mm<br>9mm<br>10mm | <br>1-1106302-9<br>2-1106302-9<br>3-1106302-9<br>4-1106302-9<br>5-1106302-9<br>6-1106302-9<br>7-1106302-9 |
| Erdungsband<br>*Grounding terminal* | Erdungband<br>*Grounding terminal*<br>Set 90mm<br>Set 120mm<br>Set 220mm | <br><br>1-1106303-9<br>2-1106303-9<br>3-1106303-9 |
| Schrauben-Set<br>*Screen set* | Schrauben-Set/*Screw set* | 1-1106304-9 |

**Sortiert nach Tyco-PN/*Sorted by Tyco PN***

| Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-0045740-2 | 43 | 0-1102897-2 | 82 | 0-1103170-2 | 51 | 0-1106407-2 | 54 | 0-1106431-3 | 90 | 0-1106451-8 | 116 |
| 0-0090364-2 | 44 | 0-1102898-1 | 82 | 0-1103171-1 | 51 | 0-1106408-1 | 53 | 0-1106431-4 | 96 | 0-1106451-9 | 124 |
| 0-0100281-1 | 44 | 0-1102898-2 | 82 | 0-1103171-2 | 51 | 0-1106408-2 | 53 | 0-1106431-5 | 87 | 0-1106452-1 | 116 |
| 0-0100281-2 | 44 | 0-1102899-1 | 73 | 0-1103172-1 | 52 | 0-1106408-3 | 53 | 0-1106431-7 | 90 | 0-1106452-2 | 120 |
| 0-0100606-2 | 44 | 0-1102918-1 | 67 | 0-1103172-2 | 52 | 0-1106409-1 | 65 | 0-1106431-7 | 92 | 0-1106452-3 | 118 |
| 0-0163083-7 | 35 | 0-1102918-2 | 67 | 0-1103173-1 | 52 | 0-1106410-1 | 65 | 0-1106431-8 | 96 | 0-1106452-4 | 115 |
| 0-0164160-4 | 35 | 0-1102919-1 | 67 | 0-1103173-2 | 52 | 0-1106410-2 | 64 | 0-1106432-1 | 94 | 0-1106452-5 | 120 |
| 0-0164161-4 | 35 | 0-1102919-2 | 67 | 0-1103174-1 | 52 | 0-1106411-1 | 63 | 0-1106432-2 | 89 | 0-1106452-6 | 118 |
| 0-0164161-9 | 35 | 0-1102920-1 | 116 | 0-1103174-2 | 52 | 0-1106411-2 | 63 | 0-1106432-3 | 94 | 0-1106452-7 | 116 |
| 0-0166824-2 | 35 | 0-1102921-1 | 44 | 0-1103176-1 | 184 | 0-1106411-6 | 63 | 0-1106432-4 | 89 | 0-1106452-8 | 120 |
| 0-0216341-1 | 44 | 0-1102978-2 | 177 | 0-1103176-2 | 184 | 0-1106412-1 | 65 | 0-1106433-1 | 91 | 0-1106452-9 | 118 |
| 0-0216342-1 | 44 | 0-1102983-1 | 150 | 0-1103244-1 | 206 | 0-1106413-1 | 65 | 0-1106433-2 | 94 | 0-1106453-1 | 126 |
| 0-0305183-8 | 43 | 0-1102985-1 | 200 | 0-1103245-1 | 206 | 0-1106413-2 | 64 | 0-1106433-3 | 93 | 0-1106454-1 | 125 |
| 0-0501198-1 | 44 | 0-1103014-1 | 200 | 0-1103246-1 | 210 | 0-1106414-1 | 63 | 0-1106433-4 | 88 | 0-1106454-2 | 125 |
| 0-0539744-2 | 35 | 0-1103015-1 | 195 | 0-1103247-1 | 210 | 0-1106414-2 | 63 | 0-1106433-5 | 91 | 0-1106455-1 | 131 |
| 0-0734423-1 | 44 | 0-1103015-2 | 195 | 0-1103250-1 | 138 | 0-1106415-2 | 80 | 0-1106433-6 | 94 | 0-1106455-2 | 130 |
| 0-1102075-1 | 113 | 0-1103016-1 | 196 | 0-1103250-1 | 212 | 0-1106415-3 | 80 | 0-1106433-7 | 93 | 0-1106456-1 | 130 |
| 0-1102076-1 | 113 | 0-1103016-2 | 196 | 0-1103250-2 | 171 | 0-1106416-3 | 79 | 0-1106433-8 | 88 | 0-1106456-2 | 131 |
| 0-1102077-1 | 137 | 0-1103017-1 | 196 | 0-1103250-2 | 212 | 0-1106416-4 | 79 | 0-1106434-1 | 87 | 0-1106456-3 | 130 |
| 0-1102081-1 | 182 | 0-1103017-2 | 196 | 0-1103250-3 | 114 | 0-1106417-1 | 76 | 0-1106434-2 | 92 | 0-1106456-4 | 131 |
| 0-1102082-1 | 182 | 0-1103018-1 | 195 | 0-1103250-3 | 212 | 0-1106417-2 | 76 | 0-1106434-3 | 90 | 0-1106459-1 | 130 |
| 0-1102192-1 | 176 | 0-1103018-2 | 195 | 0-1103250-4 | 171 | 0-1106418-1 | 75 | 0-1106434-4 | 87 | 0-1106459-2 | 131 |
| 0-1102192-2 | 176 | 0-1103019-1 | 194 | 0-1103250-4 | 212 | 0-1106418-2 | 74 | 0-1106434-5 | 92 | 0-1106459-3 | 130 |
| 0-1102194-1 | 46 | 0-1103019-2 | 194 | 0-1103250-5 | 86 | 0-1106418-3 | 75 | 0-1106434-6 | 90 | 0-1106459-4 | 131 |
| 0-1102195-1 | 46 | 0-1103020-1 | 199 | 0-1103250-5 | 211 | 0-1106418-4 | 74 | 0-1106434-7 | 87 | 0-1106460-2 | 151 |
| 0-1102677-1 | 137 | 0-1103020-2 | 199 | 0-1103250-6 | 159 | 0-1106418-5 | 78 | 0-1106434-8 | 92 | 0-1106461-3 | 150 |
| 0-1102789-1 | 39 | 0-1103021-1 | 198 | 0-1103250-6 | 211 | 0-1106418-6 | 78 | 0-1106434-9 | 90 | 0-1106461-4 | 150 |
| 0-1102790-1 | 39 | 0-1103021-2 | 198 | 0-1103250-7 | 72 | 0-1106419-1 | 73 | 0-1106435-1 | 99 | 0-1106461-8 | 150 |
| 0-1102792-1 | 150 | 0-1103022-1 | 198 | 0-1103250-7 | 201 | 0-1106419-2 | 73 | 0-1106436-1 | 98 | 0-1106462-2 | 150 |
| 0-1102836-1 | 176 | 0-1103022-2 | 198 | 0-1103250-7 | 211 | 0-1106419-3 | 73 | 0-1106436-2 | 98 | 0-1106463-1 | 147 |
| 0-1102836-2 | 176 | 0-1103023-1 | 198 | 0-1103250-8 | 159 | 0-1106419-4 | 73 | 0-1106436-3 | 98 | 0-1106463-2 | 141 |
| 0-1102837-1 | 176 | 0-1103023-2 | 198 | 0-1103250-8 | 201 | 0-1106419-5 | 77 | 0-1106436-4 | 98 | 0-1106463-3 | 147 |
| 0-1102837-2 | 176 | 0-1103024-1 | 194 | 0-1103250-8 | 211 | 0-1106419-6 | 77 | 0-1106436-5 | 98 | 0-1106464-1 | 143 |
| 0-1102838-1 | 176 | 0-1103024-2 | 194 | 0-1103251-1 | 210 | 0-1106420-1 | 73 | 0-1106436-6 | 98 | 0-1106464-2 | 146 |
| 0-1102838-2 | 176 | 0-1103025-1 | 200 | 0-1103258-1 | 210 | 0-1106420-2 | 77 | 0-1106437-1 | 105 | 0-1106464-3 | 146 |
| 0-1102839-1 | 176 | 0-1103025-2 | 200 | 0-1103260-1 | 209 | 0-1106420-3 | 77 | 0-1106438-1 | 105 | 0-1106464-4 | 141 |
| 0-1102839-3 | 176 | 0-1103028-1 | 189 | 0-1103261-1 | 209 | 0-1106421-1 | 76 | 0-1106438-2 | 104 | 0-1106464-5 | 143 |
| 0-1102839-4 | 176 | 0-1103028-2 | 189 | 0-1103266-1 | 211 | 0-1106421-2 | 76 | 0-1106439-1 | 103 | 0-1106464-6 | 146 |
| 0-1102840-1 | 176 | 0-1103070-1 | 55 | 0-1103267-1 | 209 | 0-1106422-1 | 75 | 0-1106439-2 | 103 | 0-1106464-7 | 146 |
| 0-1102840-2 | 176 | 0-1103071-1 | 55 | 0-1103269-1 | 209 | 0-1106422-2 | 75 | 0-1106440-1 | 105 | 0-1106464-8 | 141 |
| 0-1102840-3 | 176 | 0-1103072-1 | 57 | 0-1103270-1 | 204 | 0-1106422-3 | 75 | 0-1106441-1 | 105 | 0-1106465-1 | 140 |
| 0-1102840-4 | 176 | 0-1103072-2 | 57 | 0-1103271-1 | 204 | 0-1106422-4 | 75 | 0-1106441-2 | 104 | 0-1106465-2 | 145 |
| 0-1102855-1 | 35 | 0-1103073-1 | 56 | 0-1103272-1 | 205 | 0-1106422-5 | 78 | 0-1106442-1 | 103 | 0-1106465-3 | 142 |
| 0-1102855-1 | 44 | 0-1103073-2 | 56 | 0-1103273-1 | 205 | 0-1106423-1 | 74 | 0-1106442-2 | 103 | 0-1106465-4 | 139 |
| 0-1102855-2 | 34 | 0-1103073-3 | 56 | 0-1103274-1 | 204 | 0-1106423-2 | 73 | 0-1106443-1 | 126 | 0-1106465-5 | 144 |
| 0-1102855-3 | 38 | 0-1103073-4 | 56 | 0-1103275-1 | 204 | 0-1106423-3 | 74 | 0-1106444-1 | 125 | 0-1106465-6 | 142 |
| 0-1102855-4 | 40 | 0-1103074-1 | 59 | 0-1103276-1 | 207 | 0-1106423-4 | 73 | 0-1106444-2 | 125 | 0-1106465-7 | 140 |
| 0-1102855-5 | 41 | 0-1103074-2 | 59 | 0-1103277-1 | 207 | 0-1106423-5 | 77 | 0-1106445-2 | 126 | 0-1106465-8 | 145 |
| 0-1102855-6 | 34 | 0-1103074-3 | 59 | 0-1103278-1 | 208 | 0-1106424-1 | 80 | 0-1106446-3 | 125 | 0-1106466-7 | 148 |
| 0-1102855-6 | 35 | 0-1103074-4 | 59 | 0-1103279-1 | 208 | 0-1106424-2 | 80 | 0-1106446-4 | 125 | 0-1106466-8 | 148 |
| 0-1102855-6 | 37 | 0-1103074-5 | 59 | 0-1103280-1 | 208 | 0-1106425-1 | 79 | 0-1106447-1 | 122 | 0-1106467-1 | 140 |
| 0-1102855-6 | 38 | 0-1103074-6 | 59 | 0-1103281-1 | 208 | 0-1106425-2 | 79 | 0-1106447-2 | 117 | 0-1106467-4 | 139 |
| 0-1102855-6 | 39 | 0-1103076-1 | 196 | 0-1103283-1 | 209 | 0-1106425-3 | 79 | 0-1106447-4 | 117 | 0-1106467-5 | 144 |
| 0-1102855-6 | 40 | 0-1103076-2 | 196 | 0-1103286-1 | 209 | 0-1106425-4 | 79 | 0-1106448-1 | 119 | 0-1106467-7 | 140 |
| 0-1102855-6 | 44 | 0-1103091-1 | 55 | 0-1103291-1 | 209 | 0-1106425-6 | 79 | 0-1106448-2 | 122 | 0-1106468-1 | 147 |
| 0-1102855-7 | 37 | 0-1103092-1 | 58 | 0-1103297-1 | 209 | 0-1106426-2 | 99 | 0-1106448-3 | 121 | 0-1106468-2 | 141 |
| 0-1102855-8 | 39 | 0-1103092-2 | 58 | 0-1104700-1 | 113 | 0-1106427-3 | 98 | 0-1106448-4 | 116 | 0-1106469-1 | 143 |
| 0-1102856-1 | - - | 0-1103092-3 | 58 | 0-1104701-1 | 113 | 0-1106427-4 | 98 | 0-1106448-5 | 119 | 0-1106469-2 | 146 |
| 0-1102858-1 | - - | 0-1103092-4 | 58 | 0-1105354-1 | 200 | 0-1106428-1 | 94 | 0-1106448-6 | 122 | 0-1106469-3 | 146 |
| 0-1102860-1 | - - | 0-1103092-5 | 58 | 0-1105355-1 | 200 | 0-1106428-2 | 89 | 0-1106448-7 | 121 | 0-1106469-4 | 141 |
| 0-1102862-1 | - - | 0-1103092-6 | 58 | 0-1105355-2 | 200 | 0-1106428-4 | 89 | 0-1106448-9 | 116 | 0-1106469-5 | 143 |
| 0-1102874-1 | 50 | 0-1103092-7 | 58 | 0-1106062-6 | 192 | 0-1106429-1 | 91 | 0-1106449-1 | 115 | 0-1106469-6 | 146 |
| 0-1102877-1 | 153 | 0-1103092-8 | 58 | 0-1106062-7 | 192 | 0-1106429-2 | 94 | 0-1106449-2 | 120 | 0-1106469-7 | 146 |
| 0-1102877-2 | 153 | 0-1103092-9 | 58 | 0-1106258-3 | 185 | 0-1106429-3 | 93 | 0-1106449-3 | 118 | 0-1106469-8 | 141 |
| 0-1102879-1 | 154 | 0-1103095-1 | 55 | 0-1106258-4 | 185 | 0-1106429-4 | 88 | 0-1106449-4 | 115 | 0-1106469-9 | 97 |
| 0-1102879-2 | 154 | 0-1103096-1 | 55 | 0-1106259-3 | 185 | 0-1106429-5 | 91 | 0-1106449-5 | 120 | 0-1106470-1 | 140 |
| 0-1102886-1 | 133 | 0-1103108-1 | 101 | 0-1106259-4 | 185 | 0-1106429-6 | 94 | 0-1106449-6 | 118 | 0-1106470-2 | 145 |
| 0-1102886-1 | 170 | 0-1103108-1 | 128 | 0-1106401-2 | 54 | 0-1106429-7 | 93 | 0-1106449-7 | 115 | 0-1106470-3 | 142 |
| 0-1102886-2 | 170 | 0-1103109-1 | 101 | 0-1106401-3 | 54 | 0-1106429-8 | 88 | 0-1106449-8 | 120 | 0-1106470-4 | 139 |
| 0-1102886-4 | 133 | 0-1103109-1 | 128 | 0-1106401-4 | 54 | 0-1106429-9 | 97 | 0-1106449-9 | 118 | 0-1106470-5 | 144 |
| 0-1102887-1 | 133 | 0-1103133-1 | 205 | 0-1106402-2 | 53 | 0-1106430-1 | 87 | 0-1106450-1 | 122 | 0-1106470-6 | 142 |
| 0-1102887-1 | 170 | 0-1103134-1 | 205 | 0-1106402-3 | 53 | 0-1106430-2 | 92 | 0-1106450-2 | 117 | 0-1106470-7 | 140 |
| 0-1102887-2 | 170 | 0-1103140-1 | 206 | 0-1106403-1 | 50 | 0-1106430-3 | 90 | 0-1106450-3 | 122 | 0-1106470-8 | 145 |
| 0-1102887-4 | 133 | 0-1103141-1 | 206 | 0-1106404-1 | 50 | 0-1106430-4 | 87 | 0-1106450-4 | 117 | 0-1106470-9 | 142 |
| 0-1102892-1 | 48 | 0-1103144-1 | 207 | 0-1106404-3 | 50 | 0-1106430-5 | 92 | 0-1106451-1 | 119 | 0-1106471-9 | 148 |
| 0-1102893-1 | 48 | 0-1103145-1 | 207 | 0-1106405-1 | 49 | 0-1106430-6 | 90 | 0-1106451-2 | 122 | 0-1106472-1 | 151 |
| 0-1102895-1 | 107 | 0-1103155-1 | 56 | 0-1106405-2 | 46 | 0-1106430-7 | 87 | 0-1106451-3 | 121 | 0-1106472-2 | 151 |
| 0-1102895-3 | 107 | 0-1103155-2 | 56 | 0-1106405-3 | 49 | 0-1106430-8 | 92 | 0-1106451-4 | 116 | 0-1106473-1 | 150 |
| 0-1102896-1 | 107 | 0-1103169-1 | 51 | 0-1106406-1 | 49 | 0-1106430-9 | 90 | 0-1106451-5 | 119 | 0-1106473-2 | 150 |
| 0-1102896-3 | 107 | 0-1103169-2 | 51 | 0-1106406-3 | 49 | 0-1106431-1 | 87 | 0-1106451-6 | 122 | 0-1106473-3 | 150 |
| 0-1102897-1 | 82 | 0-1103170-1 | 51 | 0-1106407-1 | 54 | 0-1106431-2 | 92 | 0-1106451-7 | 121 | 0-1106473-4 | 150 |



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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

**Sortiert nach Tyco-PN/*Sorted by Tyco PN***

| Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite | Best-Nr. | Seite |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-1106474-1 | 150 | 0-1108782-2 | 114 | 1-1102106-2 | 49 | 1-1102271-2 | 93 | 1-1102352-1 | 160 | 1-1102519-2 | 94 |
| 0-1106474-2 | 150 | 0-1108782-2 | 159 | 1-1102107-2 | 49 | 1-1102271-8 | 96 | 1-1102352-2 | 164 | 1-1102523-2 | 94 |
| 0-1106475-2 | 161 | 0-1108782-2 | 202 | 1-1102109-2 | 50 | 1-1102274-1 | 88 | 1-1102352-8 | 165 | 1-1102523-6 | 91 |
| 0-1106476-1 | 162 | 0-1108782-2 | 203 | 1-1102110-2 | 50 | 1-1102274-2 | 93 | 1-1102354-1 | 161 | 1-1102525-2 | 94 |
| 0-1106476-2 | 164 | 0-1108782-4 | 159 | 1-1102112-2 | 50 | 1-1102274-8 | 97 | 1-1102354-8 | 165 | 1-1102527-2 | 94 |
| 0-1106476-4 | 161 | 0-1108782-4 | 203 | 1-1102114-2 | 50 | 1-1102276-1 | 88 | 1-1102356-1 | 161 | 1-1102530-7 | 103 |
| 0-1106476-5 | 162 | 0-1108782-5 | 159 | 1-1102117-7 | 63 | 1-1102276-2 | 93 | 1-1102356-8 | 165 | 1-1102533-7 | 103 |
| 0-1106476-8 | 161 | 0-1108782-5 | 203 | 1-1102120-7 | 63 | 1-1102276-8 | 97 | 1-1102359-1 | 161 | 1-1102536-7 | 103 |
| 0-1106477-1 | 160 | 0-1108783-1 | 86 | 1-1102121-2 | 64 | 1-1102279-1 | 89 | 1-1102360-2 | 164 | 1-1102539-7 | 103 |
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**Sortiert nach Tyco-PN/*Sorted by Tyco PN***

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*All specifications subject to change. Consult TE Connectivity for latest design specifications.*

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TE connectivity

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