



## M9 Steckverbinder IP40

### M9 connectors IP40

#### Kabelsteckverbinder

- Steckverbinder mit Schraubverriegelung
- Schutzart IP40 <sup>1)</sup>
- Kabeldurchlass in 2 Größen
- Kabelverschraubung mit integrierter Zugentlastung

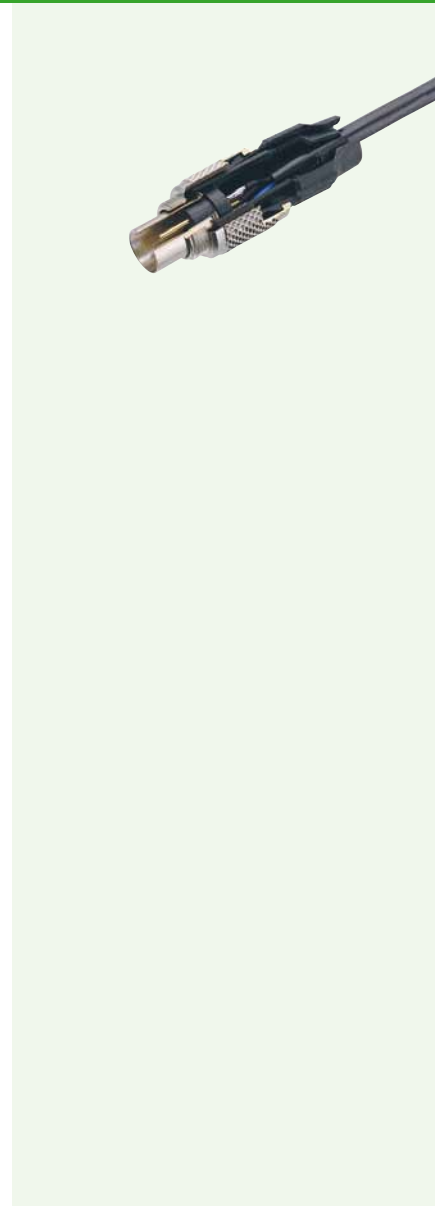
#### Cable Connector

- Connector with screw locking
- Degree of Protection IP40 <sup>1)</sup>
- Cable outlet in 2 sizes
- Cable housing with integrated strain relief



Aufbau des Steckverbinders:  
Construction of the connector:

Kabelstecker  
Male cable connector



## Subminiatursteckverbinder Serie 711

### Subminiature connectors series 711

Bezeichnung  
Description

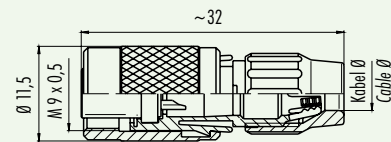
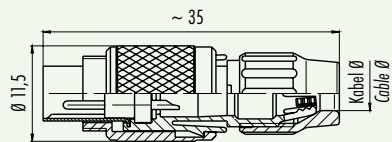
Kabelstecker  
Male cable connector

Kabeldose  
Female cable connector

Abbildung  
Figure



Maßzeichnung  
Drawing



Bestell-Nr.  
Ordering-No.

| Polzahl<br>Contacts | Kabeldurchlass 3-4mm<br>Cable outlet 3-4mm | Kabeldurchlass 4-5mm<br>Cable outlet 4-5mm |
|---------------------|--------------------------------------------|--------------------------------------------|
| 2                   | 99-0071-100-02                             | 99-0071-102-02                             |
| 3                   | 99-0075-100-03                             | 99-0075-102-03                             |
| 4                   | 99-0079-100-04                             | 99-0079-102-04                             |
| 5                   | 99-0095-100-05                             | 99-0095-102-05                             |
| 7                   | 99-0475-100-07                             | 99-0475-102-07                             |
| 8                   | 99-0479-100-08                             | 99-0479-102-08                             |

| Polzahl<br>Contacts | Kabeldurchlass 3-4mm<br>Cable outlet 3-4mm | Kabeldurchlass 4-5mm<br>Cable outlet 4-5mm |
|---------------------|--------------------------------------------|--------------------------------------------|
| 2                   | 99-0072-100-02                             | 99-0072-102-02                             |
| 3                   | 99-0076-100-03                             | 99-0076-102-03                             |
| 4                   | 99-0080-100-04                             | 99-0080-102-04                             |
| 5                   | 99-0096-100-05                             | 99-0096-102-05                             |
| 7                   | 99-0476-100-07                             | 99-0476-102-07                             |
| 8                   | 99-0480-100-08                             | 99-0480-102-08                             |

Technische Daten  
Specifications

| Polzahl                     | 2                                                                  | 3 | 4   | 5 | 7                                      | 8 | Number of contacts       |
|-----------------------------|--------------------------------------------------------------------|---|-----|---|----------------------------------------|---|--------------------------|
| Steckverbinder Verriegelung | schrauben/screw                                                    |   |     |   |                                        |   | Connector locking system |
| Anschlussart                | löten/solder                                                       |   |     |   |                                        |   | Termination              |
| Anschlussquerschnitt        | max. 0,25 mm <sup>2</sup> (max. AWG 24)                            |   |     |   | max.0,14 mm <sup>2</sup> (max. AWG 26) |   | Wire gauge               |
| Kabeldurchlass              | 3-4 mm/4-5 mm                                                      |   |     |   |                                        |   | Cable outlet             |
| Schutzart                   | IP40                                                               |   |     |   |                                        |   | Degree of protection     |
| Mechanische Lebensdauer     | > 500 Steckzyklen/> 500 mating cycles                              |   |     |   |                                        |   | Mechanical operation     |
| Obere Grenztemperatur       | + 85 °C                                                            |   |     |   |                                        |   | Upper temperature        |
| Untere Grenztemperatur      | - 40 °C                                                            |   |     |   |                                        |   | Lower temperature        |
| Bemessungsspannung          | 125 V                                                              |   |     |   |                                        |   | Rated voltage            |
| Bemessungs-Stoßspannung     | 1500 V                                                             |   |     |   |                                        |   | Rated impulse voltage    |
| Verschmutzungsgrad          | I                                                                  |   |     |   |                                        |   | Pollution degree         |
| Überspannungskategorie      | II                                                                 |   |     |   |                                        |   | Overvoltage categorie    |
| Isolierstoffgruppe          | III                                                                |   |     |   |                                        |   | Material group           |
| Bemessungsstrom (40°C)      | 4 A                                                                |   | 3 A |   | 1 A                                    |   | Rated current (40 °C)    |
| Durchgangswiderstand        | ≤ 3 mΩ                                                             |   |     |   |                                        |   | Contact resistance       |
| Material Kontakt            | Stift/pin CuZn (Messing/brass), Buchse/socket CuSn (Bronze/bronze) |   |     |   |                                        |   | Material of contact      |
| Kontaktoberfläche           | Au (Gold/gold)                                                     |   |     |   |                                        |   | Contact plating          |
| Material Kontaktkörper      | PA (UL 94 V-0)                                                     |   |     |   |                                        |   | Material of contact body |
| Material Gehäuse            | PA (UL 94 VH-B)                                                    |   |     |   |                                        |   | Material of housing      |

## Subminiatursteckverbinder Serie 711

### Subminiature connectors series 711

Bezeichnung  
Description

Abbildung  
Figure

Flanschstecker, löten  
Male socket, solder



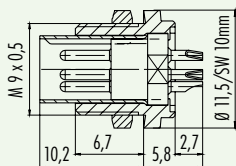
Flanschstecker, tauchlöten  
Male socket, dip solder



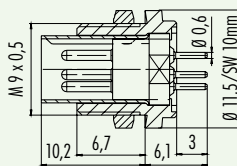
Flanschstecker mit flexibler Leiterplatte  
Male socket with flexible PCB



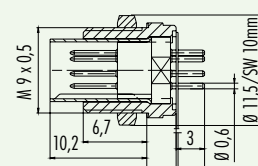
Maßzeichnung  
Drawing



max. Wandstärke: 1,5 mm  
max. wall thickness: 1,5 mm



max. Wandstärke: 1,5 mm  
max. wall thickness: 1,5 mm



max. Wandstärke: 1,5 mm  
max. wall thickness: 1,5 mm

Bestell-Nr.  
Ordering-No.

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 09-0073-00-02               |
| 3                   | 09-0077-00-03               |
| 4                   | 09-0081-00-04               |
| 5                   | 09-0097-00-05               |
| 7                   | 09-0477-00-07               |
| 8                   | 09-0481-00-08               |

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 09-0073-20-02               |
| 3                   | 09-0077-20-03               |
| 4                   | 09-0081-20-04               |
| 5                   | 09-0097-20-05               |
| 7                   | 09-0477-22-07               |
| 8                   | 09-0481-22-08               |

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | —                           |
| 3                   | —                           |
| 4                   | —                           |
| 5                   | —                           |
| 7                   | 09-0477-65-07               |
| 8                   | 09-0481-65-08               |

Technische Daten  
Specifications

| Polzahl                     | 2                                             | 3 | 4   | 5 | 7                                          | 8 | Number of contacts       |
|-----------------------------|-----------------------------------------------|---|-----|---|--------------------------------------------|---|--------------------------|
| Steckverbinder Verriegelung | schrauben/screw                               |   |     |   |                                            |   | Connector locking system |
| Anschlussart                | löten, tauchlöten/solder, dip solder          |   |     |   |                                            |   | Termination              |
| Anschlussquerschnitt        | max. 0,25 mm <sup>2</sup> (max. AWG 24) / –   |   |     |   | max.0,14 mm <sup>2</sup> (max. AWG 26) / – |   | Wire gauge               |
| Kabeldurchlass              | –                                             |   |     |   |                                            |   | Cable outlet             |
| Schutzart                   | IP40                                          |   |     |   |                                            |   | Degree of protection     |
| Mechanische Lebensdauer     | > 500 Steckzyklen/> 500 mating cycles         |   |     |   |                                            |   | Mechanical operation     |
| Obere Grenztemperatur       | + 85 °C                                       |   |     |   |                                            |   | Upper temperature        |
| Untere Grenztemperatur      | - 40 °C                                       |   |     |   |                                            |   | Lower temperature        |
| Bemessungsspannung          | 125 V                                         |   |     |   |                                            |   | Rated voltage            |
| Bemessungs-Stoßspannung     | 1500 V                                        |   |     |   |                                            |   | Rated impulse voltage    |
| Verschmutzungsgrad          | I                                             |   |     |   |                                            |   | Pollution degree         |
| Überspannungskategorie      | II                                            |   |     |   |                                            |   | Overvoltage categorie    |
| Isolierstoffgruppe          | III                                           |   |     |   |                                            |   | Material group           |
| Bemessungsstrom (40°C)      | 4 A                                           |   | 3 A |   | 1 A                                        |   | Rated current (40 °C)    |
| Durchgangswiderstand        | ≤ 3 mΩ                                        |   |     |   |                                            |   | Contact resistance       |
| Material Kontakt            | CuZn (Messing/brass)                          |   |     |   |                                            |   | Material ot contact      |
| Kontaktoberfläche           | Au (Gold/gold)                                |   |     |   |                                            |   | Contact plating          |
| Material Kontaktkörper      | PA (UL 94 V-0)                                |   |     |   |                                            |   | Material of contact body |
| Material Gehäuse            | CuZn (Messing vernickelt/brass nickel plated) |   |     |   |                                            |   | Material of housing      |

## Subminiatursteckverbinder Serie 711

### Subminiature connectors series 711

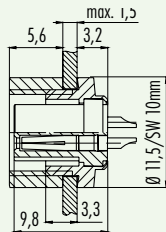
Bezeichnung  
Description

Flanschdose, löten  
Female socket, solder

Abbildung  
Figure



Maßzeichnung  
Drawing



Bestell-Nr.  
Ordering-No.

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 09-0074-00-02               |
| 3                   | 09-0078-00-03               |
| 4                   | 09-0082-00-04               |
| 5                   | 09-0098-00-05               |
| 7                   | 09-0478-00-07               |
| 8                   | 09-0482-00-08               |

Technische Daten  
Specifications

| Polzahl                     | 2                                             | 3 | 4   | 5 | 7                                      | 8 | Number of contacts       |
|-----------------------------|-----------------------------------------------|---|-----|---|----------------------------------------|---|--------------------------|
| Steckverbinder Verriegelung | schrauben/screw                               |   |     |   |                                        |   | Connector locking system |
| Anschlussart                | löten/solder                                  |   |     |   |                                        |   | Termination              |
| Anschlussquerschnitt        | max. 0,25 mm <sup>2</sup> (AWG max. 24)       |   |     |   | max.0,14 mm <sup>2</sup> (AWG max. 26) |   | Wire gauge               |
| Kabeldurchlass              | –                                             |   |     |   |                                        |   | Cable outlet             |
| Schutzart                   | IP40                                          |   |     |   |                                        |   | Degree of protection     |
| Mechanische Lebensdauer     | > 500 Steckzyklen/> 500 mating cycles         |   |     |   |                                        |   | Mechanical operation     |
| Obere Grenztemperatur       | + 85 °C                                       |   |     |   |                                        |   | Upper temperature        |
| Untere Grenztemperatur      | - 40 °C                                       |   |     |   |                                        |   | Lower temperature        |
| Bemessungsspannung          | 125 V                                         |   |     |   |                                        |   | Rated voltage            |
| Bemessungs-Stoßspannung     | 1500 V                                        |   |     |   |                                        |   | Rated impulse voltage    |
| Verschmutzungsgrad          | I                                             |   |     |   |                                        |   | Pollution degree         |
| Überspannungskategorie      | II                                            |   |     |   |                                        |   | Overvoltage categorie    |
| Isolierstoffgruppe          | III                                           |   |     |   |                                        |   | Material group           |
| Bemessungsstrom (40°C)      | 4 A                                           |   | 3 A |   | 1 A                                    |   | Rated current (40 °C)    |
| Durchgangswiderstand        | ≤ 3 mΩ                                        |   |     |   |                                        |   | Contact resistance       |
| Material Kontakt            | CuSn (Bronze/bronze)                          |   |     |   |                                        |   | Material of contact      |
| Kontaktoberfläche           | Au (Gold/gold)                                |   |     |   |                                        |   | Contact plating          |
| Material Kontaktkörper      | PA (UL 94 V-0)                                |   |     |   |                                        |   | Material of contact body |
| Material Gehäuse            | CuZn (Messing vernickelt/brass nickel plated) |   |     |   |                                        |   | Material of housing      |

## Subminiatursteckverbinder Serie 711

### Subminiature connectors series 711

Bezeichnung  
Description

Abbildung  
Figure

Flanschdose, tauchlöten  
Female socket, dip solder



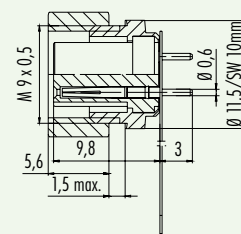
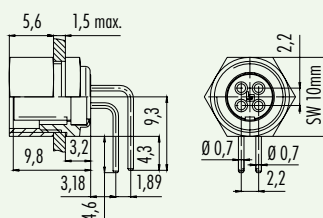
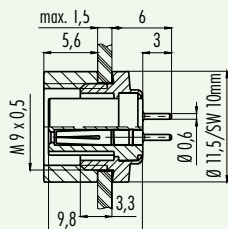
Flanschdose gewinkelt, tauchlöten  
Female socket angled, dip solder



Flanschdose mit flexibler Leiterplatte  
Female socket with flexible PCB



Maßzeichnung  
Drawing



Bestell-Nr.  
Ordering-No.

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. | Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. | Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|
| 2                   | 09-0074-20-02               | 2                   | —                           | 2                   | —                           |
| 3                   | 09-0078-20-03               | 3                   | —                           | 3                   | —                           |
| 4                   | 09-0082-20-04               | 4                   | 09-0082-32-04               | 4                   | —                           |
| 5                   | 09-0098-20-05               | 5                   | 09-0098-72-05               | 5                   | —                           |
| 7                   | 09-0478-22-07               | 7                   | —                           | 7                   | 09-0478-65-07               |
| 8                   | 09-0482-22-08               | 8                   | —                           | 8                   | 09-0482-65-08               |

Technische Daten  
Specifications

| Polzahl                     | 2                                             | 3 | 4   | 5 | 7   | 8 | Number of contacts       |
|-----------------------------|-----------------------------------------------|---|-----|---|-----|---|--------------------------|
| Steckverbinder Verriegelung | schrauben/screw                               |   |     |   |     |   | Connector locking system |
| Anschlussart                | tauchlöten/solder                             |   |     |   |     |   | Termination              |
| Anschlussquerschnitt        | –                                             |   |     |   | –   |   | Wire gauge               |
| Kabeldurchlass              | –                                             |   |     |   |     |   | Cable outlet             |
| Schutzart                   | IP40                                          |   |     |   |     |   | Degree of protection     |
| Mechanische Lebensdauer     | > 500 Steckzyklen/> 500 mating cycles         |   |     |   |     |   | Mechanical operation     |
| Obere Grenztemperatur       | + 85 °C                                       |   |     |   |     |   | Upper temperature        |
| Untere Grenztemperatur      | - 40 °C                                       |   |     |   |     |   | Lower temperature        |
| Bemessungsspannung          | 125 V                                         |   |     |   |     |   | Rated voltage            |
| Bemessungs-Stoßspannung     | 1500 V                                        |   |     |   |     |   | Rated impulse voltage    |
| Verschmutzungsgrad          | 1                                             |   |     |   |     |   | Pollution degree         |
| Überspannungskategorie      | II                                            |   |     |   |     |   | Overvoltage categorie    |
| Isolierstoffgruppe          | III                                           |   |     |   |     |   | Material group           |
| Bemessungsstrom (40°C)      | 4 A                                           |   | 3 A |   | 1 A |   | Rated current (40 °C)    |
| Durchgangswiderstand        | ≤ 3 mΩ                                        |   |     |   |     |   | Contact resistance       |
| Material Kontakt            | CuSn (Bronze/bronze)                          |   |     |   |     |   | Material of contact      |
| Kontaktoberfläche           | Au (Gold/gold)                                |   |     |   |     |   | Contact plating          |
| Material Kontaktkörper      | PA (UL 94 V-0)                                |   |     |   |     |   | Material of contact body |
| Material Gehäuse            | CuZn (Messing vernickelt/brass nickel plated) |   |     |   |     |   | Material of housing      |

## Subminiatursteckverbinder Serie 711

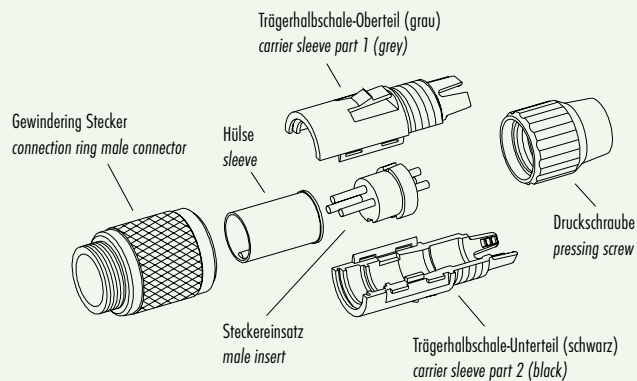
### Subminiature connectors series 711

#### Einzelteildarstellung

#### Component part drawing

#### Kabelstecker

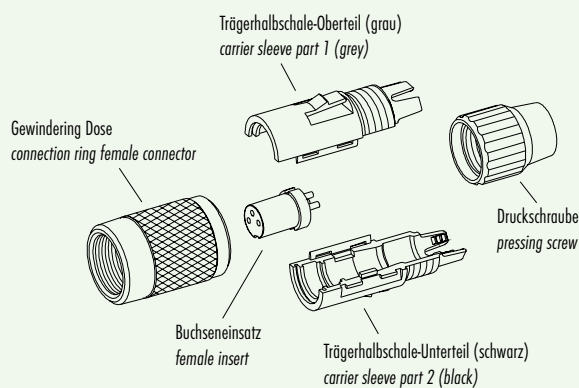
#### Male cable connectors



**Achtung:** max. Drehmoment des Gewinderings im Flanschsteckverbinder: 50cNm (handfest)  
**Attention:** max. torque of ring nut in socket connector: 50cNm (manual adjustment)

#### Kabeldose

#### Female cable connectors



**Achtung:** max. Drehmoment des Gewinderings im Flanschsteckverbinder: 50cNm (handfest)  
**Attention:** max. torque of ring nut in socket connector: 50cNm (manual adjustment)

## Subminiatursteckverbinder Serie 711

### Subminiature connectors series 711

## Zubehör

### Accessories

#### Abbildung

#### Figure

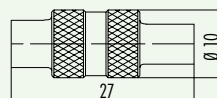
#### Montageschlüssel

#### Mounting spanner



#### Maßzeichnung

#### Drawing



#### Bestell-Nr.

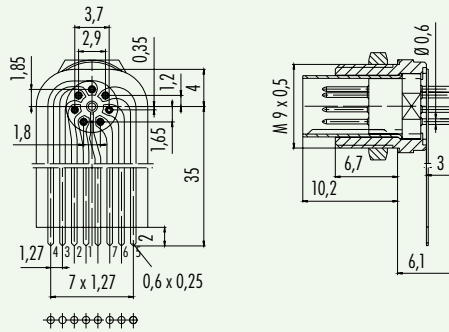
#### Ordering-No.

01-5059-001

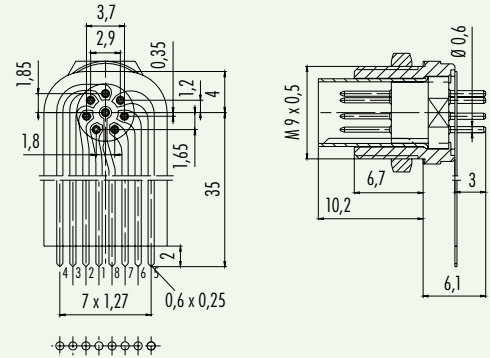
**Subminiatursteckverbinder Serie 711**  
**Subminiature connectors series 711**

Zeichnungen  
 Drawings

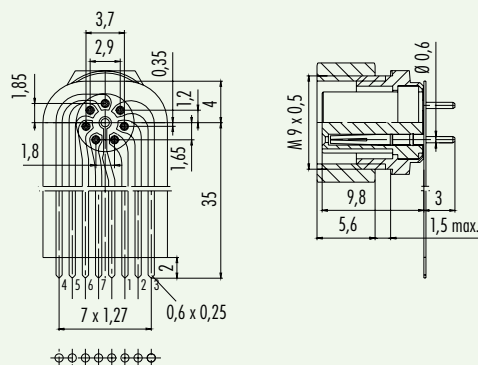
09-0477-65-07



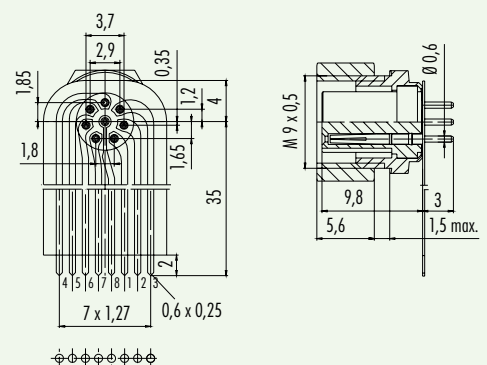
09-0481-65-08



09-0478-65-07



09-0482-65-08





## Subminiatursteckverbinder Serie 711

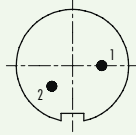
### Subminiature connectors series 711

Polbilder  
Contact arrangements

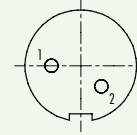
Stifteinsatz (Steckseite)  
Male insert (mating side)

Buchseinsatz (Steckseite)  
Female insert (mating side)

2 pol  
2 contacts

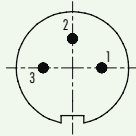


|   | X     | Y     |
|---|-------|-------|
| 1 | 1,55  | 0,00  |
| 2 | -1,09 | -1,09 |

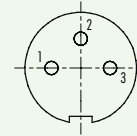


|   | X     | Y     |
|---|-------|-------|
| 1 | -1,55 | 0,00  |
| 2 | 1,09  | -1,09 |

3 pol  
3 contacts

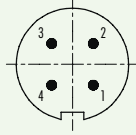


|   | X     | Y    |
|---|-------|------|
| 1 | 1,55  | 0,00 |
| 2 | 0,00  | 1,55 |
| 3 | -1,55 | 0,00 |

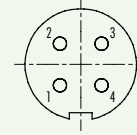


|   | X     | Y    |
|---|-------|------|
| 1 | -1,55 | 0,00 |
| 2 | 0,00  | 1,55 |
| 3 | 1,55  | 0,00 |

4 pol  
4 contacts

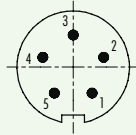


|   | X     | Y     |
|---|-------|-------|
| 1 | 1,10  | -1,10 |
| 2 | 1,10  | 1,10  |
| 3 | -1,10 | 1,10  |
| 4 | -1,10 | -1,10 |

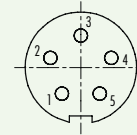


|   | X     | Y     |
|---|-------|-------|
| 1 | -1,10 | -1,10 |
| 2 | -1,10 | 1,10  |
| 3 | 1,10  | 1,10  |
| 4 | 1,10  | -1,10 |

5 pol  
5 contacts

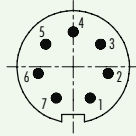


|   | X     | Y     |
|---|-------|-------|
| 1 | 1,00  | -1,37 |
| 2 | 1,61  | 0,52  |
| 3 | 0,00  | 1,70  |
| 4 | -1,61 | 0,52  |
| 5 | -1,00 | -1,37 |

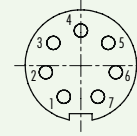


|   | X     | Y     |
|---|-------|-------|
| 1 | -1,00 | -1,37 |
| 2 | -1,61 | 0,52  |
| 3 | 0,00  | 1,70  |
| 4 | 1,61  | 0,52  |
| 5 | 1,00  | -1,37 |

7 pol  
7 contacts

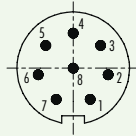


|   | X     | Y     |
|---|-------|-------|
| 1 | 0,90  | -1,65 |
| 2 | 1,85  | -0,35 |
| 3 | 1,45  | 1,20  |
| 4 | 0,00  | 1,85  |
| 5 | -1,45 | 1,20  |
| 6 | -1,85 | -0,35 |
| 7 | -0,90 | -1,65 |

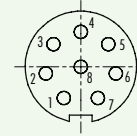


|   | X     | Y     |
|---|-------|-------|
| 1 | -0,90 | -1,65 |
| 2 | -1,85 | -0,35 |
| 3 | -1,45 | 1,20  |
| 4 | 0,00  | 1,85  |
| 5 | 1,45  | 1,20  |
| 6 | 1,85  | -0,35 |
| 7 | 0,90  | -1,65 |

8 pol  
8 contacts

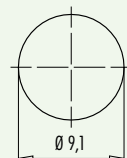


|   | X     | Y     |
|---|-------|-------|
| 1 | 0,90  | -1,65 |
| 2 | 1,85  | -0,35 |
| 3 | 1,45  | 1,20  |
| 4 | 0,00  | 1,85  |
| 5 | -1,45 | 1,20  |
| 6 | -1,85 | -0,35 |
| 7 | -0,90 | -1,65 |
| 8 | 0,00  | 0,00  |



|   | X     | Y     |
|---|-------|-------|
| 1 | -0,90 | -1,65 |
| 2 | -1,85 | -0,35 |
| 3 | -1,45 | 1,20  |
| 4 | 0,00  | 1,85  |
| 5 | 1,45  | 1,20  |
| 6 | 1,85  | -0,35 |
| 7 | 0,90  | -1,65 |
| 8 | 0,00  | 0,00  |

Montageausschnitt  
Panel cut out



Notizen  
Notes

|   |      |      |      |      |     |        |       |       |           |    |       |    |    |      |      |     |          |     |          |          |         |          |         |         |         |         |          |          |         |    |   |
|---|------|------|------|------|-----|--------|-------|-------|-----------|----|-------|----|----|------|------|-----|----------|-----|----------|----------|---------|----------|---------|---------|---------|---------|----------|----------|---------|----|---|
| R | BF-C | BF-B | BF-A | 7/8" | M18 | M12-US | M12-D | M12-B | Verteiler | VL | M12-A | M8 | M5 | RD30 | RD24 | M25 | Bajonett | M23 | M16 IP67 | M16 IP40 | PP IP67 | Bajonett | SIP P67 | M9 IP67 | M9 IP40 | PP IP67 | WPP IP67 | Bajonett | SIP P67 | TI | Ü |
|---|------|------|------|------|-----|--------|-------|-------|-----------|----|-------|----|----|------|------|-----|----------|-----|----------|----------|---------|----------|---------|---------|---------|---------|----------|----------|---------|----|---|