

## Subminiatursteckverbinder Serie 712

### Subminiature connectors series 712

Bezeichnung  
Description

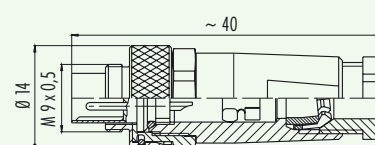
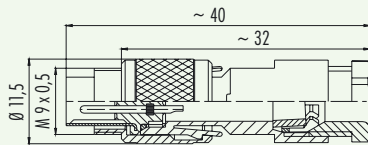
Kabelstecker  
Male cable connector

Kabelstecker 360° EMV sicher  
Male cable connector 360° EMI protected

Abbildung  
Figure



Maßzeichnung  
Drawing



Bestell-Nr.  
Ordering-No.

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 99-0401-00-02               |
| 3                   | 99-0405-00-03               |
| 4                   | 99-0409-00-04               |
| 5                   | 99-0413-00-05               |
| 7                   | 99-0421-00-07               |
| 8                   | 99-0425-00-08               |

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 99-0401-10-02               |
| 3                   | 99-0405-10-03               |
| 4                   | 99-0409-10-04               |
| 5                   | 99-0413-10-05               |
| 7                   | 99-0421-10-07               |
| 8                   | 99-0425-10-08               |

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              | 3,5-5 mm                                                       |   |     |   |                                        |   | Cable outlet             |
| Schutzart                   | IP67                                                           |   |     |   |                                        |   | 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 of contact      |
| Kontaktoberfläche           | Au (Gold/gold)                                                 |   |     |   |                                        |   | Contact plating          |
| Material Kontaktkörper      | PBT (UL 94 V-0)                                                |   |     |   |                                        |   | Material of contact body |
| Material Gehäuse            | PA (UL 94 VH-B), CuZn (Messing vernickelt/brass nickel plated) |   |     |   |                                        |   | Material of housing      |

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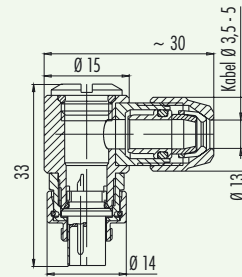
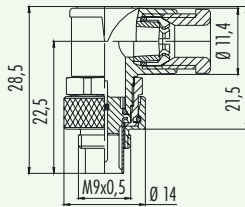
Winkelstecker  
Male angled connector



Winkelstecker 360° EMV sicher  
Male angled connector 360° EMI protected



Maßzeichnung  
Drawing



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| 5                   | 99-0413-70-05               |
| 7                   | 99-0421-70-07               |
| 8                   | 99-0425-70-08               |

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 99-0401-75-02               |
| 3                   | 99-0405-75-03               |
| 4                   | 99-0409-75-04               |
| 5                   | 99-0413-75-05               |
| 7                   | 99-0421-75-07               |
| 8                   | 99-0425-75-08               |

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              | 3,5-5 mm                                                       |   |     |   |                                        |   | Cable outlet             |
| Schutzart                   | IP67                                                           |   |     |   |                                        |   | 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 of contact      |
| Kontaktoberfläche           | Au (Gold/gold)                                                 |   |     |   |                                        |   | Contact plating          |
| Material Kontaktkörper      | PBT (UL 94 V-0)                                                |   |     |   |                                        |   | Material of contact body |
| Material Gehäuse            | PA (UL 94 VH-B), CuZn (Messing vernickelt/brass nickel plated) |   |     |   |                                        |   | Material of housing      |

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Description

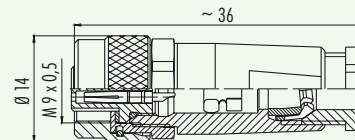
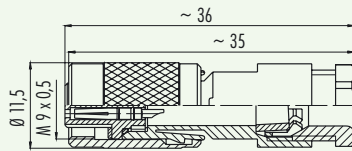
Kabeldose  
Female cable connector

Kabeldose 360° EMV sicher  
Female cable connector 360° EMI protected

Abbildung  
Figure



Maßzeichnung  
Drawing



Bestell-Nr.  
Ordering-No.

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 99-0402-00-02               |
| 3                   | 99-0406-00-03               |
| 4                   | 99-0410-00-04               |
| 5                   | 99-0414-00-05               |
| 7                   | 99-0422-00-07               |
| 8                   | 99-0426-00-08               |

| Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|---------------------|-----------------------------|
| 2                   | 99-0402-10-02               |
| 3                   | 99-0406-10-03               |
| 4                   | 99-0410-10-04               |
| 5                   | 99-0414-10-05               |
| 7                   | 99-0422-10-07               |
| 8                   | 99-0426-10-08               |

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              | 3,5-5 mm                                |   |     |   |                                        |   | Cable outlet             |
| Schutzart                   | IP67 <sup>1)</sup>                      |   |     |   |                                        |   | 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            | PA (UL 94 V-0)                          |   |     |   |                                        |   | Material of housing      |

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Bezeichnung  
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Abbildung  
Figure

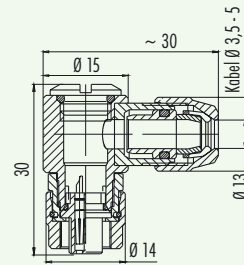
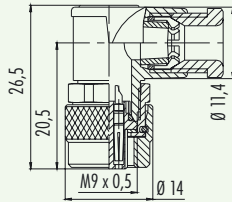
Winkeldose  
Female angled connector



Winkeldose 360° EMV sicher  
Female angled connector 360° EMI protected



Maßzeichnung  
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| 4                   | 99-0410-75-04               |
| 5                   | 99-0414-75-05               |
| 7                   | 99-0422-75-07               |
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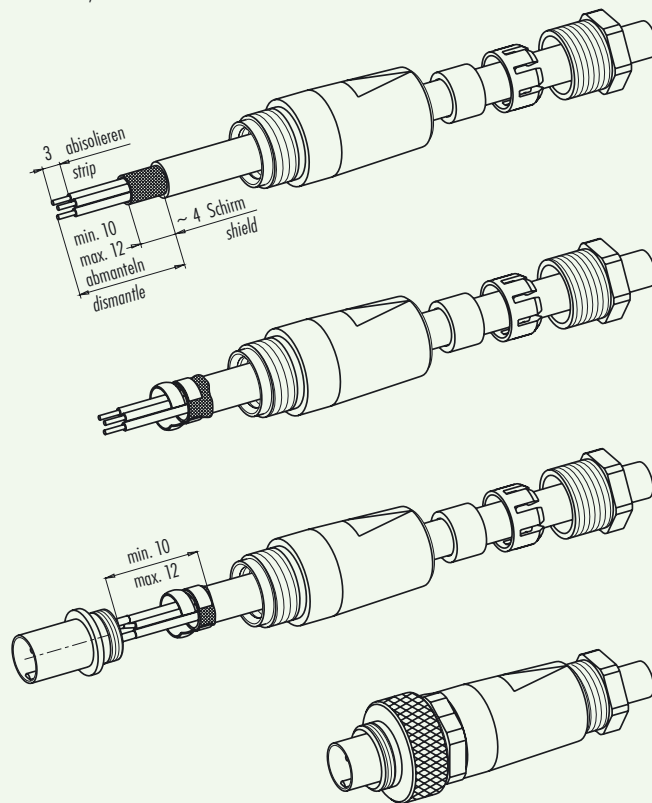
Technische Daten  
Specifications

| Polzahl                     | 2                                       | 3 | 4   | 5 | 7                                      | 8 | Number of contacts       |
|-----------------------------|-----------------------------------------|---|-----|---|----------------------------------------|---|--------------------------|
| Steckverbinder Verriegelung | schrauben/screw                         |   |     |   |                                        |   | Connector locking system |
| Anschlussart                | löten/solder                            |   |     |   |                                        |   | Termination              |
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| Kabeldurchlass              | 3,5-5 mm                                |   |     |   |                                        |   | Cable outlet             |
| Schutzart                   | IP67                                    |   |     |   |                                        |   | Degree of protection     |
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| 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            | PA (UL 94 V-0)                          |   |     |   |                                        |   | Material of housing      |

## Subminiatursteckverbinder Serie 712 Subminiature connectors series 712

### Montageanleitung Assembly instruction

Gerade Metallausführung, EMV  
Straight metal version, EMI



1. Teile auffädeln,  
Kabel abmanteln,  
Schirm kürzen,  
Leiter abisolieren

1. String parts,  
dismantle cable,  
shorten shield,  
strip wire

2. Schirm umlegen,  
Schirmmanschette an  
Kabeldurchmesser an-  
passen und mit Schirm  
verlöten

2. Fold shield back,  
fit collar to cable  
diameter and  
solder with shield

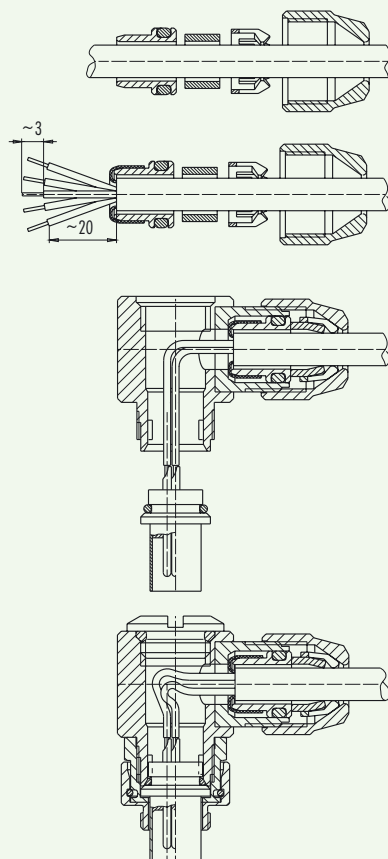
3. Überstehendes Geflecht  
abschneiden, Kontakt-  
einsatz anlöten

3. Cut off projecting  
braiding, solder  
insert

4. Übrige Teile gemäß  
Darstellung montieren

4. Mount remaining  
parts acc. to figure

Gewinkelte Metallausführung, EMV  
Angled metal version, EMI



1. Teile auffädeln,  
Kabel abmanteln

1. String parts,  
dismantle cable

2. Schirm aufweiten,  
um Schirmring  
legen, überste-  
hendes Geflecht  
abschneiden,  
abisolieren

2. Widening of shi  
put around shi  
ding ring, cut a  
projecting brai-  
ding,  
dismantle

3. Litzen durch Ge-  
häuse fädeln,  
Druckschraube  
montieren,  
Litzen anlöten

3. Thread wires  
through housin  
mount pressing  
screw, solder  
wires

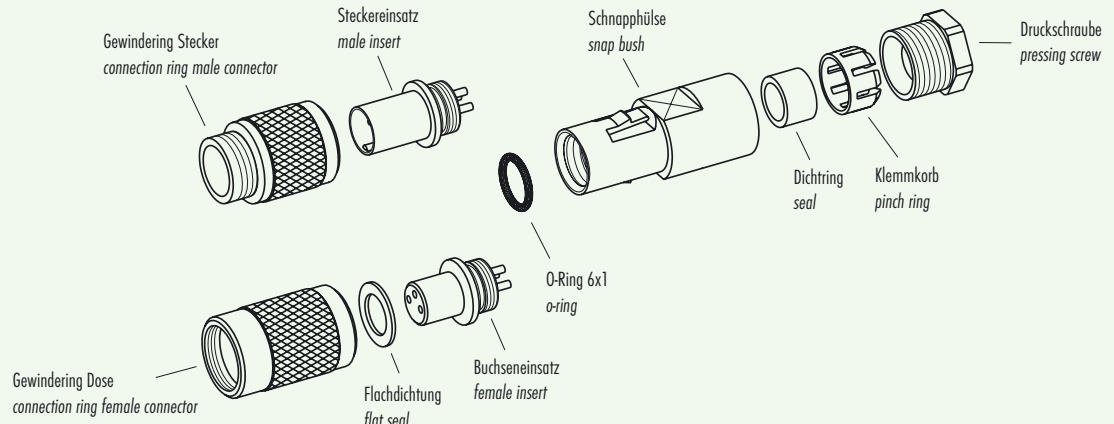
4. Übrige Teile  
montieren

4. Mount remaini  
parts

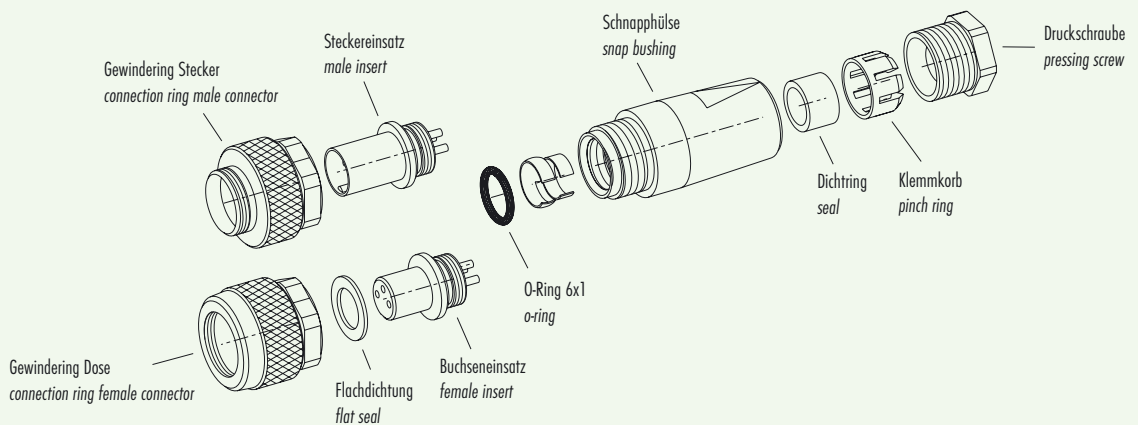
## Subminiatursteckverbinder Serie 712 Subminiature connectors series 712

Einzelteildarstellung  
Component part drawing

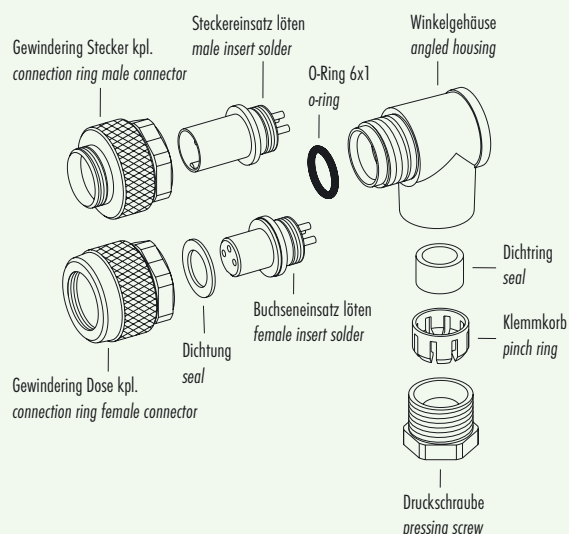
### Kabelsteckverbinder Cable connectors



### Kabelsteckverbinder EMV Ausführung Cable connectors EMI version



### Winkelsteckverbinder Angled connectors



### Winkelsteckverbinder EMV Ausführung Angled connectors EMI version

