



Serie 768

## Sensor Steckverbinder Serie 768 (M8x1) Sensor connectors series 768 (M8x1)

## Kurzinformation Brief information

### Kabelsteckverbinder nicht schirmbar

- Konfektionierbar
- Gewindeverriegelung M8x1
- Schutzart IP 67 <sup>1)</sup>
- Löt- und Schraubanschluss
- Kompatibel zur Serie 718

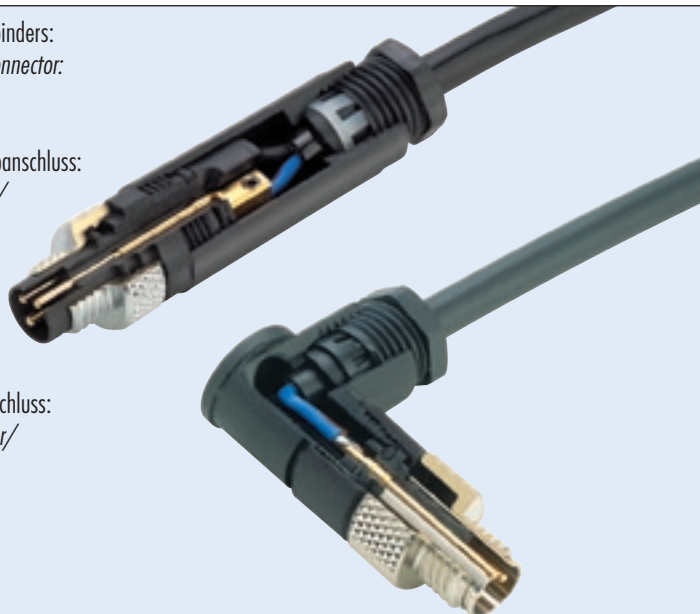
### Cable Connector not shielded

- Assembly possible
- Thread locking M8x1
- Degree of protection IP 67 <sup>1)</sup>
- Screw- and solder termination
- Compatible with connectors series 718

Aufbau des Steckverbinders:  
Construction of the connector:

Kabelstecker/Schraubanschluss:  
Male cable connector/  
screw termination:

Winkelstecker/Lötanschluss:  
Male angled connector/  
solder termination:



### Kabelsteckverbinder schirmbar

- Konfektionierbar
- Gewindeverriegelung M8x1
- Schutzart IP 67 <sup>1)</sup>
- Lötanschluss
- Kompatibel zu Steckverbindern Serie 718

### Cable Connector shielded

- Assembly possible
- Thread locking M8x1
- Degree of protection IP 67 <sup>1)</sup>
- Solder termination
- Compatible with connectors series 718

Kabelstecker:  
Male cable connector:

Kabeldose:  
Female cable connector:



### Flanschsteckverbinder

- Gewindeverriegelung M8x1 und Schnappverriegelung
- Front- und Rückwandmontage
- Löten/tauchlöten/Litzen
- Kompatibel zu Steckverbindern Serie 718

### Chassis Sockets

- Thread locking M8x1 and snap-in locking
- Front fastened and fastened from back side
- Solder/dip solder/wires
- Compatible with connectors series 718

Flanschstecker:  
Male socket:



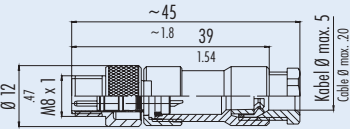
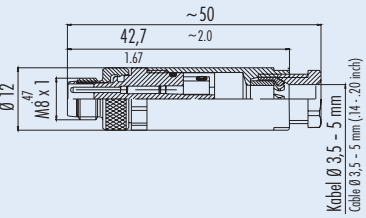
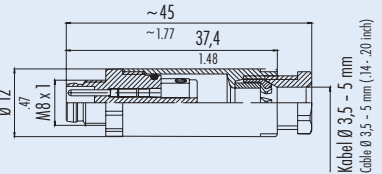
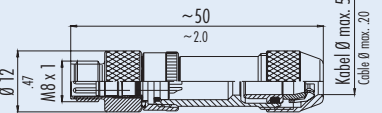
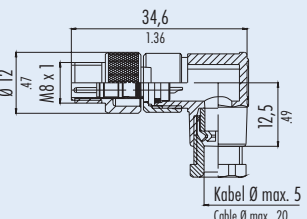
<sup>1)</sup> Erläuterung der Schutzarten siehe Seite TI-3 – TI-4. / <sup>1)</sup> Explanation of protection standards see page TI-3 – TI-4.

| Sensor Steckverbinder Serie 768 (M8x1)<br>Sensor connectors series 768 (M8x1) |                               | Technische Daten <sup>1)</sup><br>Specifications <sup>1)</sup>          |   |
|-------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------|---|
| Allgemeine Kennwerte<br>General Characteristics                               |                               |                                                                         |   |
| Polzahl                                                                       | Number of contacts            | 3                                                                       | 4 |
| Verriegelung                                                                  | Locking system                | schraub M8x1 / screw M8x1                                               |   |
| Anschlussart                                                                  | Termination                   | schrauben, löten, tauchlöten, Litzen / screw, solder, dip solder, wires |   |
| Anschlussquerschnitt in mm <sup>2</sup>                                       | Wire gauge in mm <sup>2</sup> | 0,14 - 0,5 (schrauben / screw), 0,25 (löten / solder)                   |   |
| Kabeldurchlass in mm                                                          | Cable outlet in mm            | 3,5 - 5                                                                 |   |
| Anschlussquerschnitt in AWG                                                   | Wire gauge in AWG             | 26 - 20 (schrauben / screw), 24 (löten / solder)                        |   |
| Schutzart Gehäuse                                                             | Shell protection              | IP 67                                                                   |   |
| Mechanische Lebensdauer                                                       | Mechanical operation          | > 50 Steckzyklen / > 50 mating cycles                                   |   |
| Obere Grenztemperatur                                                         | Upper temperature             | + 85 °C (+ 185 °F)                                                      |   |
| Untere Grenztemperatur                                                        | Lower temperature             | – 40 °C (– 40 °F)                                                       |   |
| Elektrische Kennwerte<br>Electrical Characteristics                           |                               |                                                                         |   |
| Bemessungsspannung                                                            | Rated voltage                 | 60 V                                                                    |   |
| Bemessungsstoßspannung                                                        | Rated impulse voltage         | 800 V                                                                   |   |
| Verschmutzungsgrad                                                            | Pollution degree              | 3                                                                       |   |
| Überspannungskategorie                                                        | Overvoltage categorie         | II                                                                      |   |
| Isolierstoffgruppe                                                            | Material group                | III                                                                     |   |
| Prüfstoßspannung                                                              | Test voltage                  | 910 V                                                                   |   |
| Bemessungsstrom (40 °C)                                                       | Rated current (40 °C)         | 4 A                                                                     |   |
| Durchgangswiderstand                                                          | Contact resistance            | ≤ 3 mΩ                                                                  |   |
| Isolationswiderstand                                                          | Insulation resistance         | > 10 <sup>10</sup> Ω                                                    |   |
| Werkstoffe<br>Materials                                                       |                               |                                                                         |   |
| Kontaktstift                                                                  | Pin contact                   | CuZn (Messing / brass)                                                  |   |
| Kontaktbuchse                                                                 | Socket contact                | CuSn (Bronze / bronze)                                                  |   |
| Kontaktoberfläche                                                             | Contact plating               | Au (Gold / gold)                                                        |   |
| Steckerkörper                                                                 | Male insert                   | PUR / PA 66 (UL 94 HB)                                                  |   |
| Buchsenkörper                                                                 | Female insert                 | PUR / PA 66 (UL 94 V-2)                                                 |   |
| Gehäuse Kabelstecker                                                          | Housing cable connector       | PBT (UL 94 V-0)                                                         |   |
| Flanschgehäuse                                                                | Socket                        | CuZn (Messing) vernickelt / (brass) nickel-plated                       |   |
| Gewinding                                                                     | Ring nut                      | CuZn (Messing) vernickelt / (brass) nickel-plated                       |   |

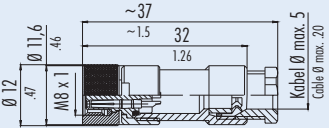
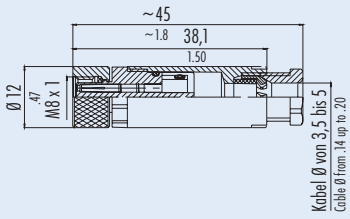
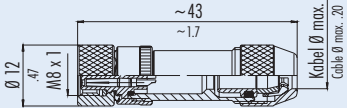
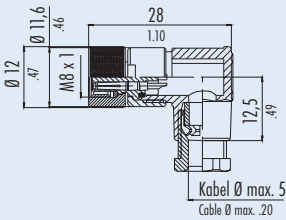
<sup>1)</sup> Normen und Prüfbedingungen für diese Angaben siehe Seite TI-16. / <sup>1)</sup> Standards and test parameters for this data see page TI-16.

## Sensor Steckverbinder Serie 768 (M8x1) Sensor connectors series 768 (M8x1)

## Kabelsteckverbinder Cable connectors

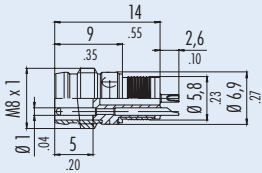
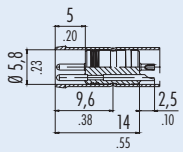
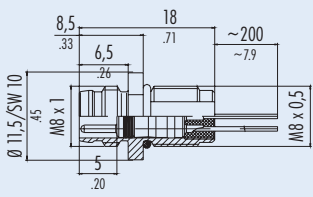
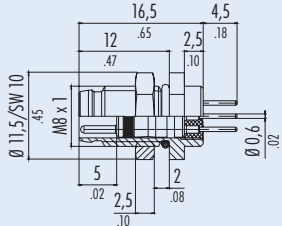
| Bezeichnung — Abbildung<br>Description — Figure                                                                                                                                                                    | Maßzeichnung<br>Drawing                                                             | Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|-----------------------------|
| Kabelstecker, löten<br>Male cable connector, solder<br>                                                                           |    | 3                   | 99-3379-00-03               |
|                                                                                                                                                                                                                    |                                                                                     | 4                   | 99-3383-00-04               |
| Kabelstecker, schrauben<br>Male cable connector, screw<br>                                                                       |   | 3                   | 99-3379-100-03              |
|                                                                                                                                                                                                                    |                                                                                     | 4                   | 99-3383-100-04              |
| Kabelstecker, Kombianschluss,<br>schnapp M8 x 1, schrauben<br>Male cable connector, combi version,<br>snap-in M8 x 1, screw<br> |  | 3                   | 99-3371-00-03               |
|                                                                                                                                                                                                                    |                                                                                     | 4                   | 99-3373-00-04               |
| Kabelstecker, schirmbar, löten<br>Male cable connector, shieldable, solder<br>                                                  |  | 3                   | 99-3361-00-03               |
|                                                                                                                                                                                                                    |                                                                                     | 4                   | 99-3363-00-04               |
| Winkelstecker, löten<br>Male angled connector, solder<br>                                                                       |  | 3                   | 99-3385-00-03               |
|                                                                                                                                                                                                                    |                                                                                     | 4                   | 99-3387-00-04               |

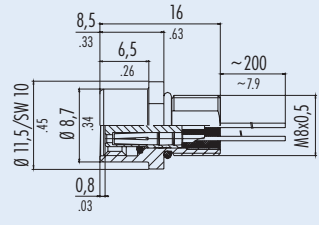
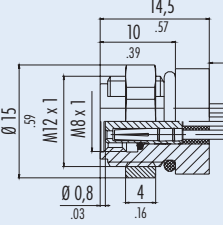
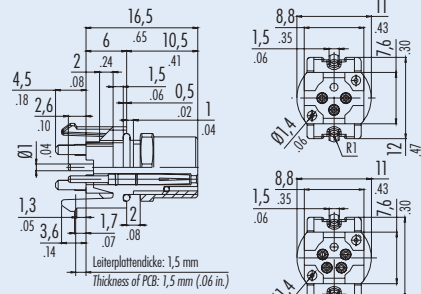
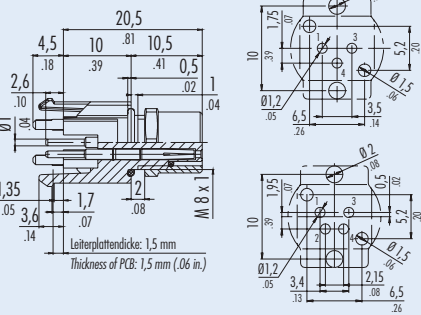
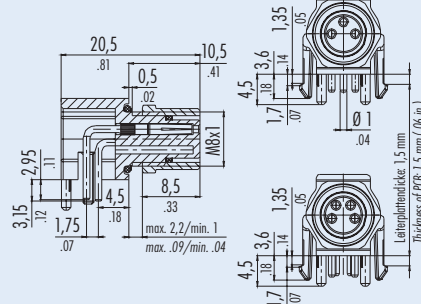


| Sensor Steckverbinder Serie 768 (M8x1)<br>Sensor connectors series 768 (M8x1)                                                                                 |                                                                                     | Kabelsteckverbinder<br>Cable connectors |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|
| Bezeichnung — Abbildung<br>Description — Figure                                                                                                               | Maßzeichnung<br>Drawing                                                             | Polzahl<br>Contacts                     | Bestell-Nr.<br>Ordering-No. |
| Kabeldose, löten<br>Female cable connector, solder                           |    | 3                                       | 99-3400-00-03               |
|                                                                                                                                                               |                                                                                     | 4                                       | 99-3376-00-04               |
| Kabeldose, schrauben<br>Female cable connector, screw                      |   | 3                                       | 99-3400-100-03              |
|                                                                                                                                                               |                                                                                     | 4                                       | 99-3376-100-04              |
| Kabeldose, schirmbar, löten<br>Female cable connector, shieldable, solder  |  | 3                                       | 99-3360-00-03               |
|                                                                                                                                                               |                                                                                     | 4                                       | 99-3362-00-04               |
| Winkeldose, löten<br>Female angled connector, solder                       |  | 3                                       | 99-3402-00-03               |
|                                                                                                                                                               |                                                                                     | 4                                       | 99-3378-00-04               |

## Sensor Steckverbinder Serie 768 (M8x1) Sensor connectors series 768 (M8x1)

## Steckverbinder Connectors

| Bezeichnung — Abbildung<br>Description — Figure                                                                                                                                            | Maßzeichnung<br>Drawing                                                             | Polzahl<br>Contacts | Bestell-Nr.<br>Ordering-No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|-----------------------------|
| Einbaustecker, Kombiversion<br>Male receptacle, combi version<br><br>                                     |    | 3                   | 09-3413-00-03               |
|                                                                                                                                                                                            |                                                                                     | 3 +LED rot/red      | 09-3413-40-03               |
|                                                                                                                                                                                            |                                                                                     | 3 +LED gelb/yellow  | 09-3413-41-03               |
|                                                                                                                                                                                            |                                                                                     | 4                   | 09-3415-00-04               |
|                                                                                                                                                                                            |                                                                                     | 4 +LED rot/red      | 09-3415-40-04               |
| Einbaustecker in M8-er Rohr<br>Male receptacle for M8 tube<br><br>                                      |   | 3                   | 09-3411-70-03               |
|                                                                                                                                                                                            |                                                                                     | 4                   | 09-3389-70-04               |
| Flanschstecker mit Litzen, 0,25 mm <sup>2</sup><br>Male socket with wires, 0,25 mm <sup>2</sup><br><br> |  | 3                   | 09-3403-00-03               |
|                                                                                                                                                                                            |                                                                                     | 4                   | 09-3391-00-04               |
| Flanschstecker, Frontmontage, tauchlöten<br>Male socket, front fastened, dip solder<br><br>             |  | 3                   | 09-3403-81-03               |
|                                                                                                                                                                                            |                                                                                     | 4                   | 09-3391-81-04               |

| Sensor Steckverbinder Serie 768 (M8x1)<br>Sensor connectors series 768 (M8x1)                                                                                                    |                                                                                      | Steckverbinder<br>Connectors |                             |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|-----------------------------|----------------|
| Bezeichnung — Abbildung<br>Description — Figure                                                                                                                                  | Maßzeichnung<br>Drawing                                                              | Polzahl<br>Contacts          | Bestell-Nr.<br>Ordering-No. |                |
| Flanschdose mit Litzen, 0,25 mm <sup>2</sup><br>Female socket with wires, 0,25 mm <sup>2</sup>  |     | 3                            | 09-3412-00-03               |                |
|                                                                                                                                                                                  |                                                                                      | 4                            | 09-3390-00-04               |                |
| Flanschdose, Frontmontage, tauchlöten<br>Female socket, front fastened, dip solder             |    | 3                            | A/mm (in.)                  |                |
|                                                                                                                                                                                  |                                                                                      |                              | 9,5 (.37)                   | 09-3412-80-03  |
|                                                                                                                                                                                  |                                                                                      |                              | 4,7 (.19)                   | 09-3412-187-03 |
|                                                                                                                                                                                  |                                                                                      |                              | 0,5 (.02)                   | 09-3412-186-03 |
|                                                                                                                                                                                  |                                                                                      | 4                            | A/mm (in.)                  |                |
|                                                                                                                                                                                  |                                                                                      |                              | 9,5 (.37)                   | 09-3390-80-04  |
|                                                                                                                                                                                  |                                                                                      |                              | 4,7 (.19)                   | 09-3390-187-04 |
| Flanschdose gerade, 6 mm<br>Female socket straight, 6 mm                                      |  | 3                            | 99-3412-281-03              |                |
|                                                                                                                                                                                  |                                                                                      | 4                            | 99-3390-281-04              |                |
| Flanschdose gerade, 10 mm<br>Female socket straight, 10 mm                                    |  | 3                            | 99-3412-280-03              |                |
|                                                                                                                                                                                  |                                                                                      | 4                            | 99-3390-280-04              |                |
| Flanschdose gewinkelt<br>Female socket angled                                                 |  | 3                            | 99-3412-282-03              |                |
|                                                                                                                                                                                  |                                                                                      | 4                            | 99-3390-282-04              |                |

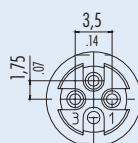
## Sensor Steckverbinder Serie 768 (M8x1) Sensor connectors series 768 (M8x1)

## Polbilder Contact arrangements

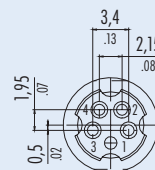
Polbilder mit Sicht auf Lötanschlusseite der Stifteinsätze  
Contact arrangements with view on solder termination side of male inserts

Kabelstecker, löten  
Cable connector, solder

3 pol  
3 contacts

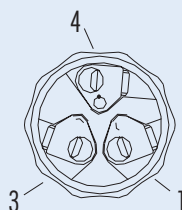


4 pol  
4 contacts

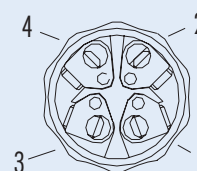


Kabelstecker, schrauben  
Cable connector, screw

3 pol  
3 contacts

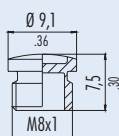


4 pol  
4 contacts



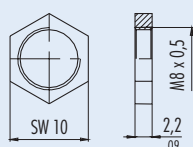
### Zubehör Accessories

Schutzkappe für Dosen  
Protection cap for female connectors



08-2441-000-000

Befestigungsmutter M8x0,5  
Hexagonal nut M8x0,5



01-0769-001

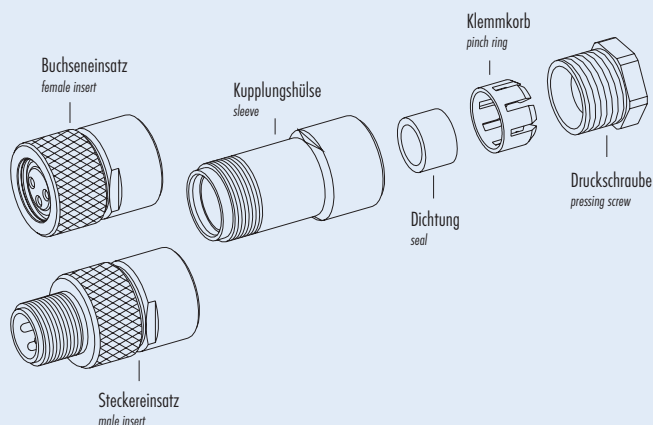


## Sensor Steckverbinder Serie 768 (M8x1) Sensor connectors series 768 (M8x1)

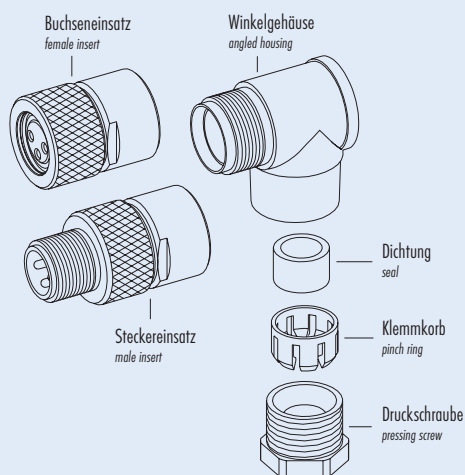
## Einzelteildarstellung Component part drawing

Einzelteildarstellung  
Component part drawing

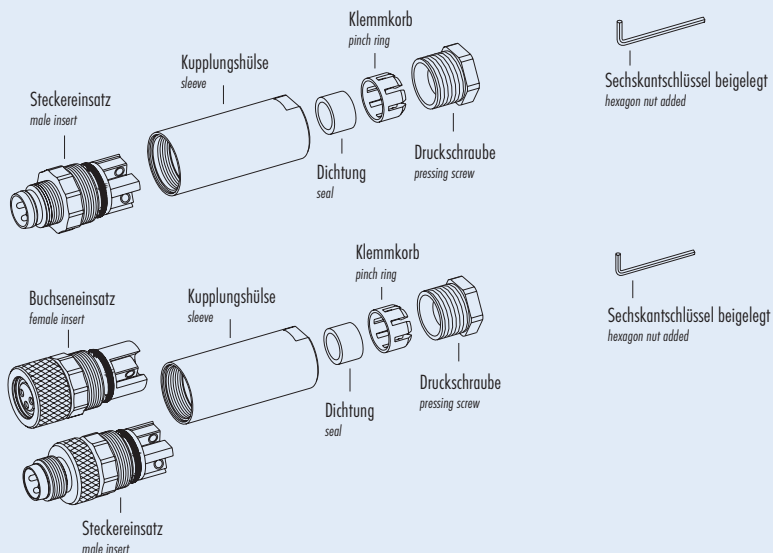
Kabelsteckverbinder, löten  
Cable connector, solder



Winkelsteckverbinder, löten  
Angled connector, solder



Kabelsteckverbinder, schrauben  
Cable connector, screw



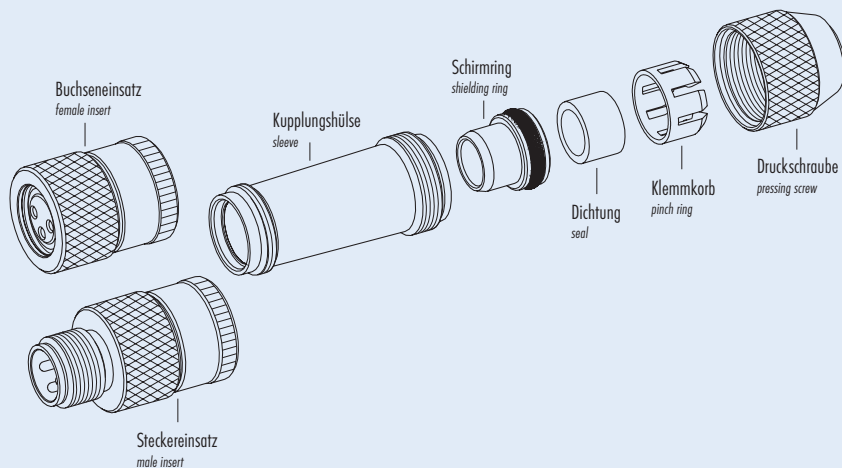
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## Sensor Steckverbinder Serie 768 (M8x1) Sensor connectors series 768 (M8x1)

## Einzelteildarstellung Component part drawing

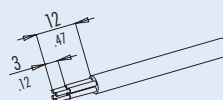
Einzelteildarstellung  
Component part drawing

Kabelsteckverbinder, schirmbar, löten  
Cable connector, shieldable, solder

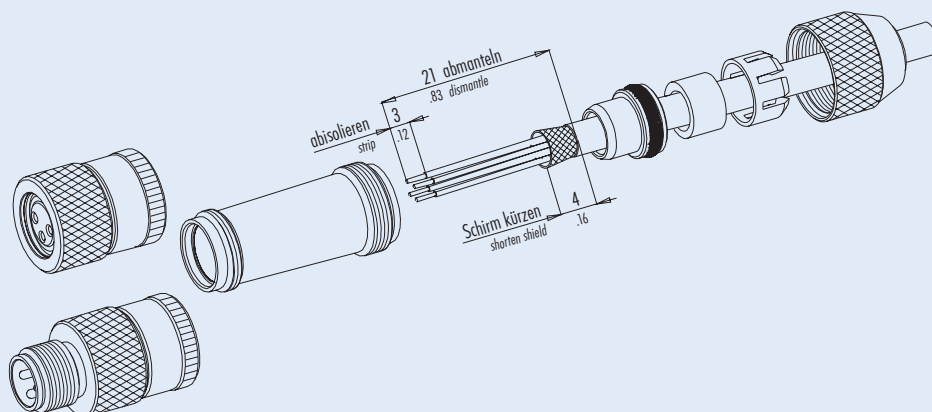


Montageanleitung  
Assembly instruction

Kabelsteckverbinder  
Cable connector



Kabelsteckverbinder, schirmbar  
Cable connector, shieldable

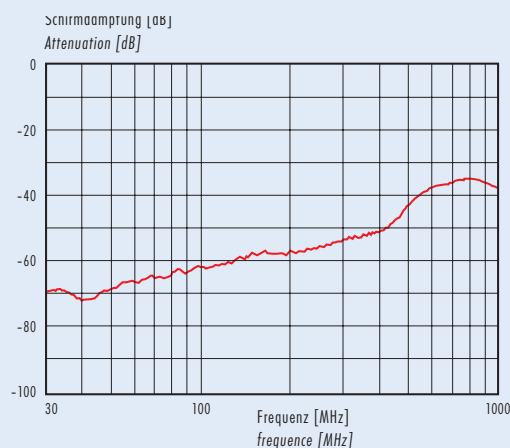


## Sensor Steckverbinder Serie 768 (M8x1)

### Sensor connectors series 768 (M8x1)

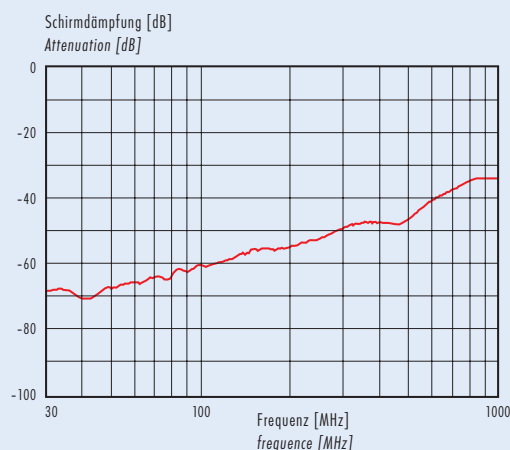
Schirmdämpfungskurve nach DIN 47250-6  
für Kabelstecker, gerade Ausführung, schirmbar  
(Kabeltyp IEEE 802.3)

Attenuation curve according to DIN 47250-6  
for straight male cable connectors, shieldable  
(cable version IEEE 802.3)



Schirmdämpfungskurve nach DIN 47250-6  
für Kabeldose, gerade Ausführung  
(Kabeltyp IEEE 802.3)

Attenuation curve according to DIN 47250-6  
for straight female cable connectors  
(cable version IEEE 802.3)



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