

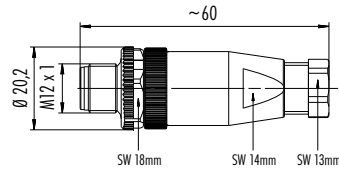


- Screw locking acc. to DIN EN 61076-2-101
  - Degree of protection IP67
  - Moulded versions
  - Easy assembly
  - Excellent EMC shielding
  - Versions with shielding rings/iris type spring
  - Angled connectors adjustable in 4 positions
  - Outdoor versions
- Degree of protection IP68/IP69**

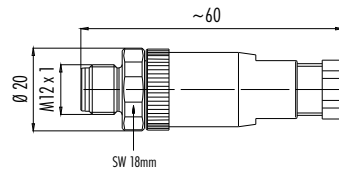
**Description**

**Drawing**

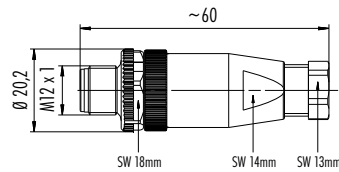
Male cable connector, screw clamp, solder termination on contact 12/wire clamp



Male cable connector, stainless steel locking ring, screw clamp



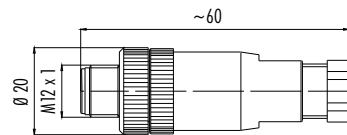
Male cable connector, crimp



**NEW**

Crimp contacts see page 103/129

Male cable connector, plastic locking system, screw clamp



**Specifications**

**Cable connector plastic version**

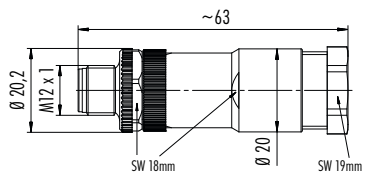
| Contacts             | 3  | 4              | 5                                     | 8                                      | 12                                      |
|----------------------|--|----------------|---------------------------------------|--|---|
| Wire gauge           | max. 0,75 mm <sup>2</sup> (max. AWG 20), Power max. 1,5 mm <sup>2</sup> (max. AWG 16), screw clamp 0,14–0,75 mm <sup>2</sup> (AWG 26–18) |                |                                       | max. 0,5 mm <sup>2</sup> (max. AWG 20) | max. 0,25 mm <sup>2</sup> (max. AWG 24) |
| Mechanical operation | Optalloy > 50 Mating cycles, Gold > 100 Mating cycles  |                |                                       | Gold > 100 Mating cycles               |   |
| Temperature range    | – 40 °C / + 85 °C, Outdoor – 40 °C / + 100 °C, screw clamp – 25 °C / + 80 °C   |                |                                       |  |   |
| Rated voltage        | 250 V  |                | 60 V                                  | 30 V                                   |   |
| Pollution degree     | 3  |                |                                       |  |   |
| Rated current (40°C) | 4 A  | 4 A, Power 8 A | 4 A, Power cont. 1-4 8 A, cont. 5 2 A | 2 A                                    | 1,5 A                                   |
| Contact plating      | screw clamp termination: CuSnZn (Optalloy), others Au (Gold)   |                |                                       | Au (Gold)                              |   |
| Material of housing  | PA   |                |                                       |  |   |

## Description

## Drawing

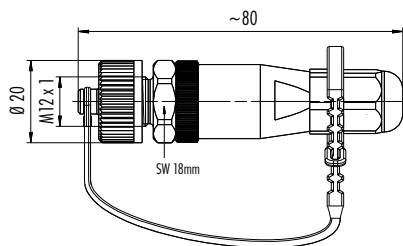
## Contacts Cable outlet Ordering-No.

Male cable connector, Power



|   |         |               |
|---|---------|---------------|
| 4 | 8-10 mm | 99 0429 19 04 |
| 5 |         | 99 0437 19 05 |

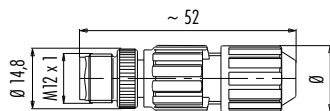
Male cable connector, Outdoor, screw clamp, IP68, IP69



**NEW**

|   |          |                |
|---|----------|----------------|
| 4 | 4-6,5 mm | 99 0429 684 04 |
|---|----------|----------------|

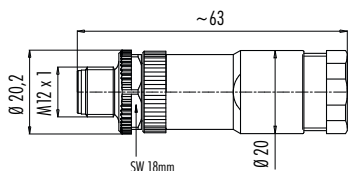
Male cable connector, IDT connection



| Cable-Ø | Ø    |
|---------|------|
| 3,5-6   | 16,3 |
| 4-8     | 18,4 |

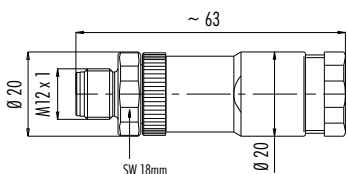
| Contacts | Wire gauge                | Cable outlet | Ordering-No.  |
|----------|---------------------------|--------------|---------------|
| 4        | 0,14-0,34 mm <sup>2</sup> | 3,5-6 mm     | 99 0527 14 04 |
|          | 0,34-0,75 mm <sup>2</sup> | 4-8 mm       | 99 0527 12 04 |

Male cable duo connector, screw clamp



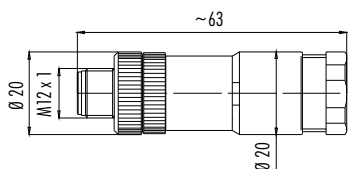
| Contacts | Cable outlet | Ordering-No.   |
|----------|--------------|----------------|
| 4        | 2 cables     | 99 0429 186 04 |
| 5        | 2,1-3 mm/    | 99 0437 186 05 |
| 8        | 4-5 mm       | 99 0487 186 08 |

Male cable duo connector, stainless steel locking ring, screw clamp



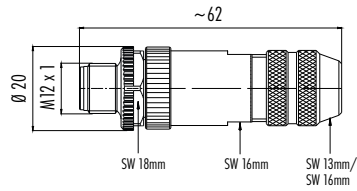
|   |           |                |
|---|-----------|----------------|
| 4 | 2 cables  | 99 0429 287 04 |
| 5 | 2,1-3 mm/ | 99 0437 287 05 |
| 8 | 4-5 mm    | 99 0487 287 08 |

Male cable duo connector, plastic locking system, screw clamp



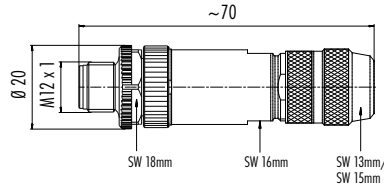
|   |                     |                |
|---|---------------------|----------------|
| 4 | 2 cables            | 99 0429 142 04 |
| 5 | 2,1-3 mm/<br>4-5 mm | 99 0437 142 05 |

**Description** Male cable connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12



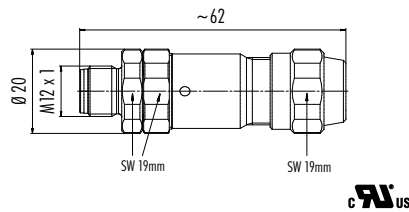
| Contacts         | Cable outlet | Screw clamp <sup>1)</sup> | Wire clamp     |
|------------------|--------------|---------------------------|----------------|
| 4                | 4–6 mm       | 99 1429 814 04            | 99 1525 814 04 |
|                  | 6–8 mm       | 99 1429 812 04            | 99 1525 812 04 |
| 5                | 4–6 mm       | 99 1437 814 05            | 99 1537 814 05 |
|                  | 6–8 mm       | 99 1437 812 05            | 99 1537 812 05 |
| 8                | 6–8 mm       | 99 1487 812 08            | –              |
|                  | 8–10 mm      | 99 1487 914 08            | –              |
| 12 <sup>1)</sup> | 6–8 mm       | 99 1491 812 12            | –              |

Male cable connector, screw clamp/wire clamp, iris type spring, shieldable



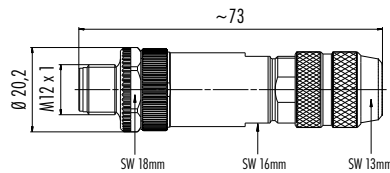
|   |        |                |                |
|---|--------|----------------|----------------|
| 4 | 5–8 mm | 99 1431 814 04 | 99 1527 814 04 |
| 5 | 5–8 mm | 99 1439 814 05 | 99 1539 814 05 |
| 8 | 5–8 mm | 99 1489 814 08 | –              |
|   | 8–9 mm | 99 1489 812 08 | –              |

Male cable connector, screw clamp, with shielding ring, stainless steel version, shieldable



|   |            |                |  |
|---|------------|----------------|--|
| 4 | 3–5,5 mm   | 99 1429 991 04 |  |
|   | 5,5–8,6 mm | 99 1429 992 04 |  |
| 5 | 3–5,5 mm   | 99 1437 991 05 |  |
|   | 5,5–8,6 mm | 99 1437 992 05 |  |
| 8 | 5,5–8,6 mm | 99 1487 992 08 |  |

Male cable connector, crimp, shieldable

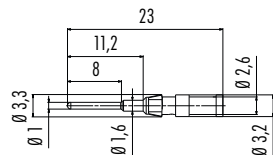


**NEW**

|   |        |                |  |
|---|--------|----------------|--|
| 4 | 5–8 mm | 99 1433 814 04 |  |
|---|--------|----------------|--|

Crimp contacts see page 103/129



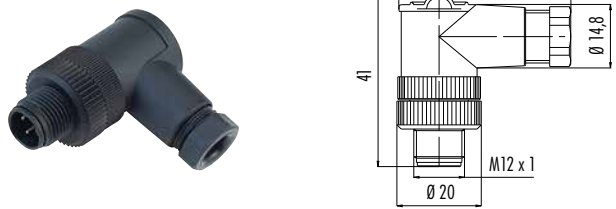
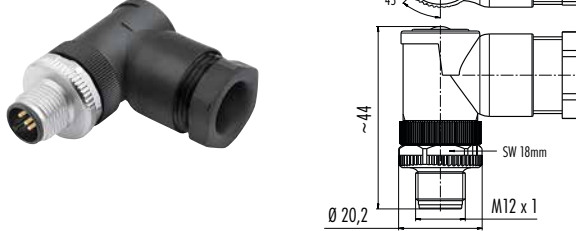
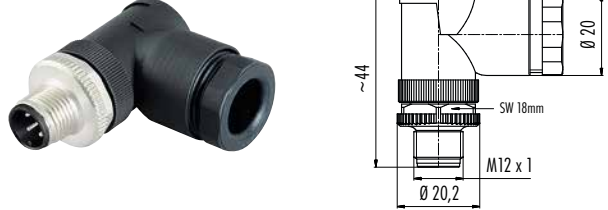
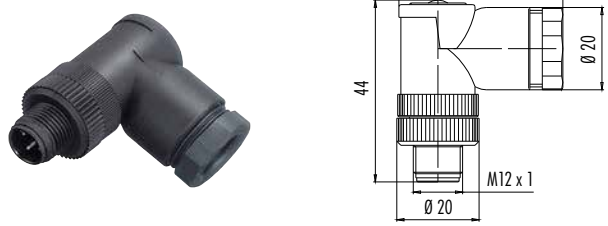
Male contact, PU 100 pieces



| Wire gauge                                  | AWG   | Ordering-No. |
|---|-------|--------------|
| 0,14 mm <sup>2</sup> – 0,34 mm <sup>2</sup> | 26–22 | 61 1224 146  |
| 0,34 mm <sup>2</sup> – 0,5 mm <sup>2</sup>  | 22–20 | 61 1154 146  |
| 0,75 mm <sup>2</sup> – 1,0 mm <sup>2</sup>  | 18–16 | 61 1225 146  |
| 1,0 mm <sup>2</sup> – 1,5 mm <sup>2</sup>   | 16    | 61 1226 146  |

**NEW**

| Specifications          | Cable connector metal version   |      |  |   |
|-------------------------|---|------|--|---|
| Contacts                | 4   | 5    | 8                                      | 12                                      |
| Wire gauge              | screw clamp max. 0,75 mm <sup>2</sup> (max. AWG 20), wire clamp max. 0,5 mm <sup>2</sup> (max. AWG 20)        |      | max. 0,5 mm <sup>2</sup> (max. AWG 20) | max. 0,25 mm <sup>2</sup> (max. AWG 24) |
| Mechanical operation    | > 100 Mating cycles   |      |  |   |
| Temperature range       | – 40 °C / + 85 °C   |      |  |   |
| Rated voltage           | 250 V   | 60 V | 30 V                                   |   |
| Degree of contamination | 3   |      |  |   |
| Rated current (40°C)    | 4 A   |      | 2 A                                    | 1,5 A                                   |
| Contact plating         | Au (Gold)   |      |  |   |
| Material Housing        | straight, shielded version CuZn (brass nickel plated), angled shielded versions zinc diecasting nickel plated |      |  |   |

| Description   | Drawing   | Contacts  | Cable outlet                   | Screw clamp <sup>1)</sup>                         | Wire clamp                     |
|---|---|---|--------------------------------|---|--------------------------------|
| Male angled connector, screw clamp, solder termination on contact 12/wire clamp |    | 3   | 4–6 mm<br>6–8 mm<br>2,5–3,5 mm | 99 0429 27 04<br>99 0429 161 04<br>99 0429 324 04 | –<br>–<br>–                    |
|   |   | 4   | 4–6 mm<br>6–8 mm               | 99 0429 24 04<br>99 0429 52 04                    | 99 0525 24 04<br>99 0525 52 04 |
|   |   | 5   | 4–6 mm<br>6–8 mm               | 99 0437 24 05<br>99 0437 52 05                    | 99 0537 24 05<br>99 0537 52 05 |
|   |   | 12 <sup>1)</sup>  | 6–8 mm                         | 99 0491 52 12                                     | –                              |
| Male angled connector, stainless steel locking ring, screw clamp                |    | 4   | 4–6 mm<br>6–8 mm               | 99 0429 92 04<br>99 0429 292 04                   | –<br>–                         |
|   |   | 5   | 4–6 mm<br>6–8 mm               | 99 0437 92 05<br>99 0437 292 05                   | –<br>–                         |
| Male angled connector, plastic locking system, screw clamp                      |   | 4   | 4–6 mm                         | 99 0429 44 04                                     | –                              |
|   |   | 5   | 4–6 mm                         | 99 0437 44 05                                     | –                              |
| Male angled connector, Power  |  | 4   | 8–10 mm                        | 99 0429 58 04                                     | –                              |
|   |   | 5   | 8–10 mm                        | 99 0437 58 05                                     | –                              |
|   |   | It is possible to turn and fix the contact carrier in 4 different 90° positions |                                |   |                                |
| Duo male angled connector, screw clamp  |  | 4   | 2 cables<br>2,1–3 mm/          | 99 0429 286 04                                    | –                              |
|   |   | 5   | 4–5 mm                         | 99 0437 286 05                                    | –                              |
| Duo male angled connector, plastic locking system, screw clamp                  |  | 4   | 2 cables<br>2,1–3 mm/          | 99 0429 162 04                                    | –                              |
|   |   | 5   | 4–5 mm                         | 99 0437 162 05                                    | –                              |

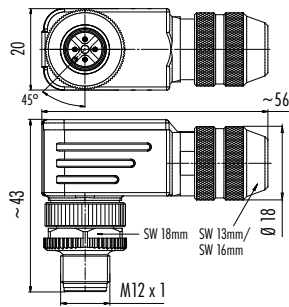
<sup>1)</sup>Version with solder contacts.

## Description

Male angled connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12



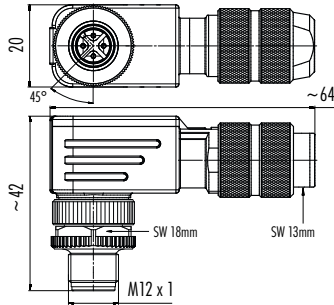
## Drawing



It is possible to turn and fix the contact carrier in 4 different 90° positions

| Contacts         | Cable outlet | Screw clamp <sup>1)</sup> | Wire clamp     |
|------------------|--------------|---------------------------|----------------|
| 4                | 4–6 mm       | 99 1429 824 04            | 99 1525 824 04 |
|                  | 6–8 mm       | 99 1429 822 04            | 99 1525 822 04 |
| 5                | 4–6 mm       | 99 1437 824 05            | 99 1537 824 05 |
|                  | 6–8 mm       | 99 1437 822 05            | 99 1537 822 05 |
| 12 <sup>1)</sup> | 6–8 mm       | 99 1491 822 12            | –              |

Male angled connector, screw clamp/wire clamp, iris type spring, shieldable



It is possible to turn and fix the contact carrier in 4 different 90° positions

|   |        |                |                |
|---|--------|----------------|----------------|
| 4 | 5–8 mm | 99 1431 824 04 | 99 1527 824 04 |
| 5 | 5–8 mm | 99 1439 824 05 | 99 1539 824 05 |

## Contact arrangements male insert (mating side)

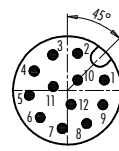
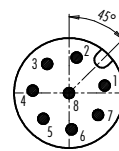
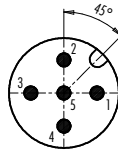
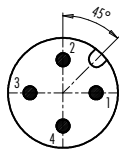
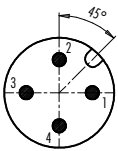
3 contacts

4 contacts

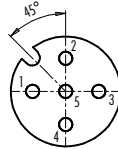
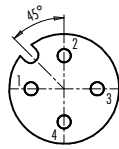
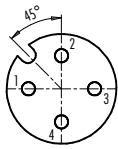
5 contacts/5 contacts CAN-Bus

8 contacts

12 contacts



## Contact arrangements female insert (mating side)



## Colour of wire, moulded cable and panel mount connectors

3–5 contacts

1 brown

2 not connected/white

3 blue

4 black

5 grey

5 contacts CAN-Bus

1 Shield

2 red (AWG 22)

3 black (AWG 22)

4 white (AWG 24)

5 blue (AWG 24)

8 contacts

1 white

2 brown

3 green

4 yellow

5 grey

6 pink

7 blue

8 red

12 contacts

1 brown

2 blue

3 white

4 green

5 pink

6 yellow

7 black

8 grey

9 red

10 purple

11 grey/pink

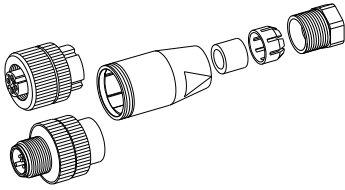
12 red/blue

Contact 2 is not connected at 3 pole version.

Shielded versions: Shield on housing or at 8 pole version on contact 8.

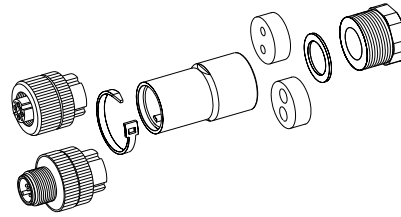
## Component part drawing

Cable connectors, not shieldable



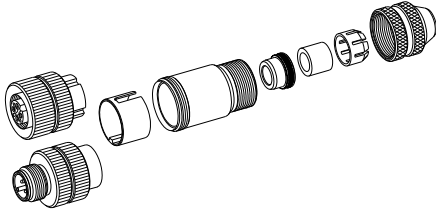
Female insert/  
Male insert  
Sleeve  
Seal  
Pinch ring  
Pressing screw

Cable duo connectors, not shieldable



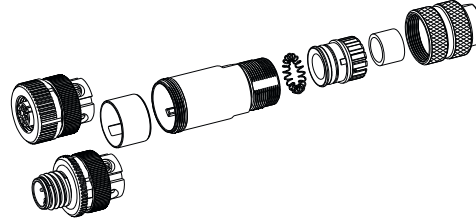
Female insert/  
Male insert  
Cable binder  
Sleeve  
Seal  
Thrust collar  
Pressing screw

Cable connectors, with shielding ring, shieldable



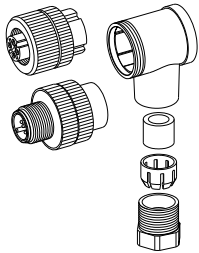
Female insert/  
Male insert  
Insulating sleeve tightly  
built into coupling sleeve  
Shielding ring  
O-ring  
Seal  
Pinch ring  
Pressing screw

Cable connectors, with iris type spring, shieldable



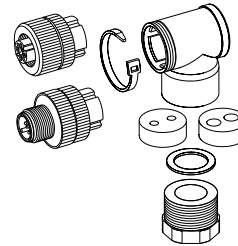
Female insert/  
Male insert  
Insulating sleeve, Sleeve,  
Pressing spring, O-ring,  
Pinch ring, Seal,  
Pressing screw  
are premounted

Angled connectors, not shieldable



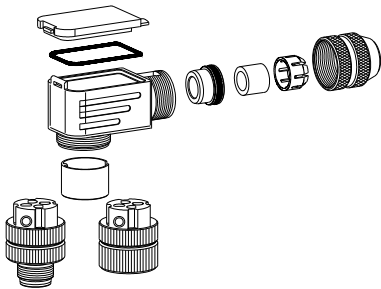
Female insert/  
Male insert  
Angled housing  
Seal  
Pinch ring  
Pressing screw

Duo male angled connectors, not shieldable



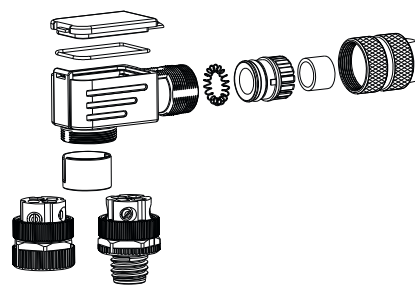
Female insert/  
Male insert  
Cable binder  
Angled housing  
Seal  
Thrust collar  
Pressing screw

Angled connectors, with shielding ring, shieldable



Female insert/  
Male insert  
Insulating sleeve tightly  
built into coupling sleeve  
Housing  
Seal  
Cover  
Shielding ring  
O-ring  
Seal  
Pinch ring  
Pressing screw

Angled connectors, with iris type spring, shieldable

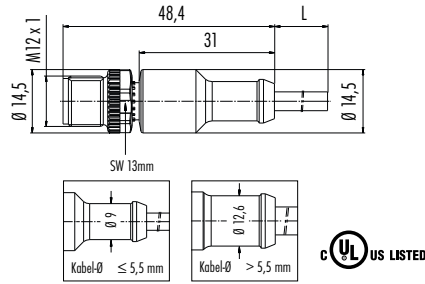


Female insert/  
Male insert  
Insulating sleeve, Housing,  
Pressing spring, O-ring,  
Pinch ring, Seal,  
Pressing screw  
are premounted  
O-ring  
Cover

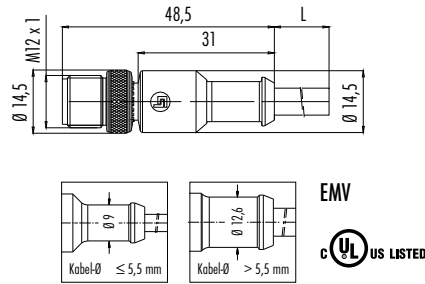
**Description**

**Drawing**

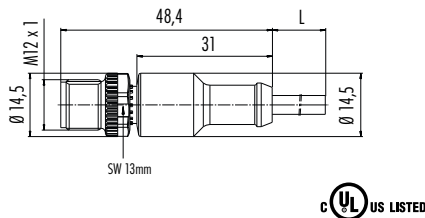
Male cable connector, moulded, PVC (grey), PUR (black)



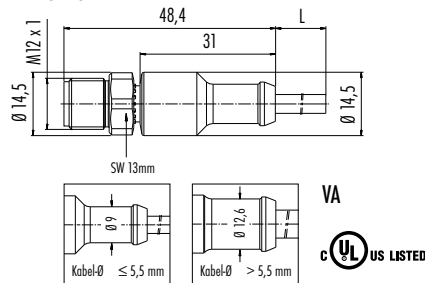
Male cable connector, moulded, shielded, PVC (grey), PUR (black)



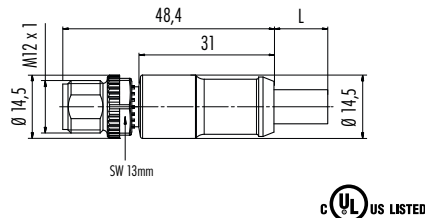
Male cable connector, moulded, PUR, for welding application



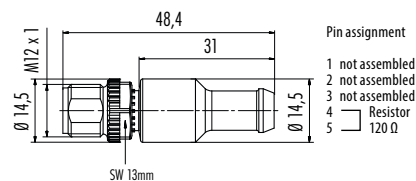
Male cable connector, moulded, PUR, stainless steel locking ring



Male cable connector, CAN-Bus



Male terminating connector, CAN-Bus



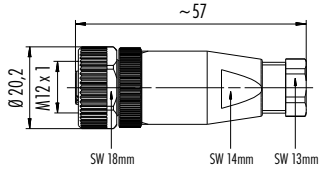








| Contacts               | Cable length | PVC (cable grey) <sup>1)</sup>   | PUR (cable black) <sup>1)</sup> |
|------------------------|--------------|----------------------------------|---------------------------------|
| 3 x 0,34               | 2 m          | 77 3429 0000 20003-0200          | 77 3429 0000 50003-0200         |
|                        | 5 m          | 77 3429 0000 20003-0500          | 77 3429 0000 50003-0500         |
| 4 x 0,34               | 2 m          | 77 3429 0000 20004-0200          | 77 3429 0000 50004-0200         |
|                        | 5 m          | 77 3429 0000 20004-0500          | 77 3429 0000 50004-0500         |
| 5 x 0,25               | 2 m          | 77 3429 0000 20005-0200          | 77 3429 0000 50005-0200         |
|                        | 5 m          | 77 3429 0000 20005-0500          | 77 3429 0000 50005-0500         |
| 8 x 0,25 <sup>2)</sup> | 2 m          | -                                | 77 3429 0000 50608-0200         |
|                        | 5 m          | -                                | 77 3429 0000 50608-0500         |
| 8 x 0,25               | 2 m          | 77 3429 0000 20708-0200          | 77 3429 0000 50708-0200         |
|                        | 5 m          | 77 3429 0000 20708-0500          | 77 3429 0000 50708-0500         |
| 12 x 0,25              | 2 m          | 77 3429 0000 20712-0200          | 77 3429 0000 50712-0200         |
|                        | 5 m          | 77 3429 0000 20712-0500          | 77 3429 0000 50712-0500         |
| 3 x 0,34               | 2 m          | 77 3529 0000 20703-0200          | 77 3529 0000 50703-0200         |
|                        | 5 m          | 77 3529 0000 20703-0500          | 77 3529 0000 50703-0500         |
| 4 x 0,34               | 2 m          | 77 3529 0000 20704-0200          | 77 3529 0000 50704-0200         |
|                        | 5 m          | 77 3529 0000 20704-0500          | 77 3529 0000 50704-0500         |
| 5 x 0,25               | 2 m          | 77 3529 0000 20705-0200          | 77 3529 0000 50705-0200         |
|                        | 5 m          | 77 3529 0000 20705-0500          | 77 3529 0000 50705-0500         |
| 8 x 0,25               | 2 m          | 77 3529 0000 20708-0200          | 77 3529 0000 50708-0200         |
|                        | 5 m          | 77 3529 0000 20708-0500          | 77 3529 0000 50708-0500         |
| 3 x 0,34               | 2 m          | 77 3429 0000 80003-0200          | 77 3429 0000 80203-0200         |
|                        | 5 m          | 77 3429 0000 80003-0500          | 77 3429 0000 80203-0500         |
| 4 x 0,34               | 2 m          | 77 3429 0000 80004-0200          | 77 3429 0000 80204-0200         |
|                        | 5 m          | 77 3429 0000 80004-0500          | 77 3429 0000 80204-0500         |
| 5 x 0,25               | 2 m          | 77 3429 0000 80005-0200          | 77 3429 0000 80205-0200         |
|                        | 5 m          | 77 3429 0000 80005-0500          | 77 3429 0000 80205-0500         |
| Contacts               | Cable length | PUR (cable orange) <sup>1)</sup> | PUR (cable black) <sup>1)</sup> |
|                        |              |                                  |                                 |
| 3 x 0,34               | 2 m          | 77 3729 0000 50003-0200          | 77 3729 0000 50003-0200         |
|                        | 5 m          | 77 3729 0000 50003-0500          | 77 3729 0000 50003-0500         |
| 4 x 0,34               | 2 m          | 77 3729 0000 50004-0200          | 77 3729 0000 50004-0200         |
|                        | 5 m          | 77 3729 0000 50004-0500          | 77 3729 0000 50004-0500         |
| 5 x 0,25               | 2 m          | 77 3729 0000 50005-0200          | 77 3729 0000 50005-0200         |
|                        | 5 m          | 77 3729 0000 50005-0500          | 77 3729 0000 50005-0500         |
| 8 x 0,25               | 2 m          | 77 3729 0000 50708-0200          | 77 3729 0000 50708-0200         |
|                        | 5 m          | 77 3729 0000 50708-0500          | 77 3729 0000 50708-0500         |
| Contacts               | Cable length | Ordering-No. <sup>1)</sup>       |                                 |
|                        |              |                                  |                                 |
| 5                      | 2 m          | 77 2529 0000 50705-0200          |                                 |
|                        | 5 m          | 77 2529 0000 50705-0500          |                                 |
|                        | 10 m         | 77 2529 0000 50705-1000          |                                 |
| 5                      | -            | 77 9839 0000 00005               |                                 |

| Description   | Drawing | Contacts   | Cable length | PVC (cable grey) <sup>1)</sup> | PUR (cable black) <sup>1)</sup> |                         |                         |
|---|---------|--|--------------|--------------------------------|---------------------------------|-------------------------|-------------------------|
| Male angled connector, moulded, PVC (grey), PUR (black)           |         | 3 x 0,34   | 2 m          | 77 3427 0000 20003-0200        | 77 3427 0000 50003-0200         |                         |                         |
|   |         |  | 5 m          | 77 3427 0000 20003-0500        | 77 3427 0000 50003-0500         |                         |                         |
|   |         | 4 x 0,34   | 2 m          | 77 3427 0000 20004-0200        | 77 3427 0000 50004-0200         |                         |                         |
|   |         |  | 5 m          | 77 3427 0000 20004-0500        | 77 3427 0000 50004-0500         |                         |                         |
|   |         | 5 x 0,25   | 2 m          | 77 3427 0000 20005-0200        | 77 3427 0000 50005-0200         |                         |                         |
|   |         |  | 5 m          | 77 3427 0000 20005-0500        | 77 3427 0000 50005-0500         |                         |                         |
|   |         | 8 x 0,25 <sup>2)</sup>   | 2 m          | -                              | 77 3427 0000 50608-0200         |                         |                         |
|   |         |  | 5 m          | -                              | 77 3427 0000 50608-0500         |                         |                         |
|   |         | 8 x 0,25   | 2 m          | 77 3427 0000 20708-0200        | 77 3427 0000 50708-0200         |                         |                         |
|   |         |  | 5 m          | 77 3427 0000 20708-0500        | 77 3427 0000 50708-0500         |                         |                         |
|   |         | 12 x 0,25  | 2 m          | 77 3427 0000 20712-0200        | 77 3427 0000 50712-0200         |                         |                         |
|   |         |  | 5 m          | 77 3427 0000 20712-0500        | 77 3427 0000 50712-0500         |                         |                         |
| Male angled connector, moulded, shielded, PVC (grey), PUR (black) |         | 3 x 0,34   | 2 m          | 77 3527 0000 20703-0200        | 77 3527 0000 50703-0200         |                         |                         |
|   |         |  | 5 m          | 77 3527 0000 20703-0500        | 77 3527 0000 50703-0500         |                         |                         |
|   |         | 4 x 0,34   | 2 m          | 77 3527 0000 20704-0200        | 77 3527 0000 50704-0200         |                         |                         |
|   |         |  | 5 m          | 77 3527 0000 20704-0500        | 77 3527 0000 50704-0500         |                         |                         |
|   |         | 5 x 0,25   | 2 m          | 77 3527 0000 20705-0200        | 77 3527 0000 50705-0200         |                         |                         |
|   |         |  | 5 m          | 77 3527 0000 20705-0500        | 77 3527 0000 50705-0500         |                         |                         |
|   |         | 8 x 0,25   | 2 m          | 77 3527 0000 20708-0200        | 77 3527 0000 50708-0200         |                         |                         |
|   |         |  | 5 m          | 77 3527 0000 20708-0500        | 77 3527 0000 50708-0500         |                         |                         |
|   |         | Male angled connector, moulded, PUR, for welding application           |              | 3 x 0,34                       | 2 m                             | 77 3427 0000 80003-0200 | 77 3427 0000 80203-0200 |
|   |         |  |              |                                | 5 m                             | 77 3427 0000 80003-0500 | 77 3427 0000 80203-0500 |
|   |         |  |              | 4 x 0,34                       | 2 m                             | 77 3427 0000 80004-0200 | 77 3427 0000 80204-0200 |
|   |         |  |              |                                | 5 m                             | 77 3427 0000 80004-0500 | 77 3427 0000 80204-0500 |
| 5 x 0,25  | 2 m     |  |              | 77 3427 0000 80005-0200        | 77 3427 0000 80205-0200         |                         |                         |
|   | 5 m     |  |              | 77 3427 0000 80005-0500        | 77 3427 0000 80205-0500         |                         |                         |
| Male angled connector, moulded, PUR, stainless steel locking ring |         |  |              | 3 x 0,34                       | 2 m                             | 77 3727 0000 50003-0200 | 77 3727 0000 50003-0500 |
|   |         |  |              |                                | 5 m                             | 77 3727 0000 50003-0500 | 77 3727 0000 50003-0500 |
|   |         |  |              | 4 x 0,34                       | 2 m                             | 77 3727 0000 50004-0200 | 77 3727 0000 50004-0500 |
|   |         |  |              |                                | 5 m                             | 77 3727 0000 50004-0500 | 77 3727 0000 50004-0500 |
|   |         |  |              | 5 x 0,25                       | 2 m                             | 77 3727 0000 50005-0200 | 77 3727 0000 50005-0500 |
|   |         |  |              |                                | 5 m                             | 77 3727 0000 50005-0500 | 77 3727 0000 50005-0500 |
|   |         | 8 x 0,25   | 2 m          | 77 3727 0000 50708-0200        | 77 3727 0000 50708-0500         |                         |                         |
|   |         |  | 5 m          | 77 3727 0000 50708-0500        | 77 3727 0000 50708-0500         |                         |                         |
|   |         | Male angled connector, moulded, PVC (grey), PUR (black), with LED, PNP |              | 3 x 0,34                       | 2 m                             | 77 3627 0000 20003-0200 | 77 3627 0000 50003-0200 |
|   |         |  |              |                                | 5 m                             | 77 3627 0000 20003-0500 | 77 3627 0000 50003-0500 |
|   |         |  |              | 4 x 0,34                       | 2 m                             | 77 3627 0000 20004-0200 | 77 3627 0000 50004-0200 |
|   |         |  |              |                                | 5 m                             | 77 3627 0000 20004-0500 | 77 3627 0000 50004-0500 |

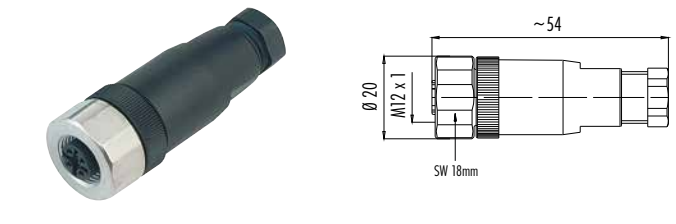
| Specifications       | Cable connector, moulded       |   |  |      |                               |
|----------------------|--------------------------------|---|--|------|-------------------------------|
| Contacts             | 3                              | 4 | 5  | 8    | 12                            |
| Wire gauge           | 0,34 mm <sup>2</sup> (AWG 22)  |   | 0,34 mm <sup>2</sup> (AWG 22), 0,25 mm <sup>2</sup> (AWG 24) |      | 0,25 mm <sup>2</sup> (AWG 24) |
| Mechanical operation | > 100 Mating cycles            |   |  |      |                               |
| Temperature range    | - 25 °C / + 90 °C (+ 80 °C UL) |   |  |      |                               |
| Rated voltage        | 250 V                          |   | 60 V   | 30 V |                               |
| Pollution degree     | 3                              |   |  |      |                               |
| Rated current (40°C) | 4 A                            |   | 2 A  |      | 1 A                           |
| Contact plating      | Au (Gold)                      |   |  |      |                               |
| Material of housing  | PUR                            |   |  |      |                               |

<sup>1)</sup> Standard cable length is 2 m/5 m. Other length on request. <sup>2)</sup> Shielded cable, shield on contact 8.



| Description  | Drawing   | Contacts         | Cable outlet | Screw clamp <sup>1)</sup> | Wire clamp  |               |
|--|---|------------------|--------------|---------------------------|---|---------------|
| Female cable connector, screw clamp, solder termination on contact 12/wire clamp |  | 3                | 4–6 mm       | 99 0430 07 04             |  | –             |
|  |   |                  | 6–8 mm       | 99 0430 158 04            |  | –             |
|  |   |                  | 2,5–3,5 mm   | 99 0430 314 04            |   | –             |
|  |   | 4                | 4–6 mm       | 99 0430 14 04             |  | 99 0524 14 04 |
|  |   |                  | 6–8 mm       | 99 0430 12 04             |  | 99 0524 12 04 |
|  |   | 5                | 4–6 mm       | 99 0436 14 05             |  | 99 0536 14 05 |
|  |   |                  | 6–8 mm       | 99 0436 12 05             |  | 99 0536 12 05 |
|  |   | 8                | 6–8 mm       | 99 0486 12 08             |  | –             |
|  |   | 12 <sup>1)</sup> | 6–8 mm       | 99 0492 12 12             |  | –             |

Female cable connector, stainless steel locking ring, screw clamp



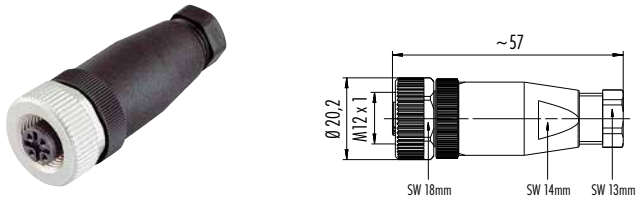
|   |        |                |  |
|---|--------|----------------|--|
| 4 | 4–6 mm | 99 0430 82 04  |  |
|   | 6–8 mm | 99 0430 282 04 |  |
| 5 | 4–6 mm | 99 0436 82 05  |  |
|   | 6–8 mm | 99 0436 282 05 |  |
| 8 | 6–8 mm | 99 0486 282 08 |  |



Female cable connector, crimp

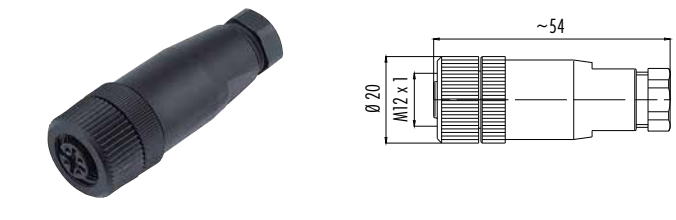
|   |        |               |  |
|---|--------|---------------|--|
| 4 | 4–6 mm | 99 0530 14 04 |  |
|---|--------|---------------|--|

**NEW**



Crimp contacts see page 111/129

Female cable connector, plastic locking system, screw clamp



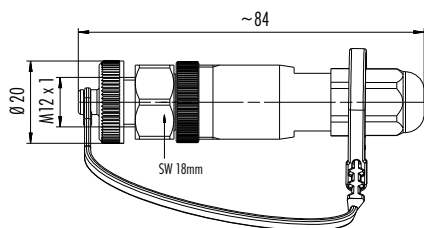
|   |        |               |                     |
|---|--------|---------------|---------------------|
| 4 | 4–6 mm | 99 0430 10 04 |                     |
|   | 6–8 mm | 99 0430 30 04 | transparent housing |
| 5 | 4–6 mm | 99 0436 10 05 |                     |
|   | 6–8 mm | 99 0436 57 05 |                     |



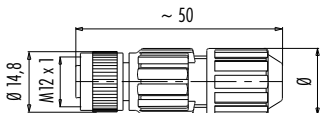
| Description                   | Drawing   | Contacts | Cable outlet | Ordering-No.  |
|-------------------------------|---|----------|--------------|---------------|
| Female cable connector, Power |  | 4        | 8–10 mm      | 99 0430 19 04 |
|                               |   | 5        |              | 99 0436 19 05 |



|  |  |   |          |                |
|--|--|---|----------|----------------|
| Female cable connector, Outdoor, screw clamp, IP68, IP69 |  | 4 | 4–6,5 mm | 99 0430 684 04 |
|--|--|---|----------|----------------|



**NEW**

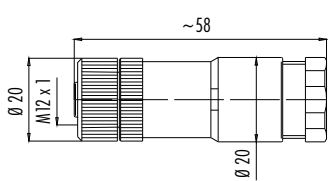
| Description                            | Drawing   | Contacts | Wire gauge                | Cable outlet | Ordering-No.  |
|--|---|----------|---------------------------|--------------|---------------|
| Female cable connector, IDT connection |  | 4        | 0,14–0,34 mm <sup>2</sup> | 3,5–6 mm     | 99 0528 14 04 |
|  |   |          | 0,34–0,75 mm <sup>2</sup> | 4–8 mm       | 99 0528 12 04 |



| Cable-Ø | Ø    |
|---------|------|
| 3,5–6   | 16,3 |
| 4–8     | 18,4 |

| Description   | Drawing   | Contacts | Cable outlet | Ordering-No.   |
|---|---|----------|--------------|----------------|
| Female cable duo connector, stainless steel locking ring, screw clamp |  | 4        | 2 cables     | 99 0430 287 04 |
|   |   | 5        | 2,1–3 mm/    | 99 0436 287 05 |
|   |   | 8        | 4–5 mm       | 99 0486 287 08 |

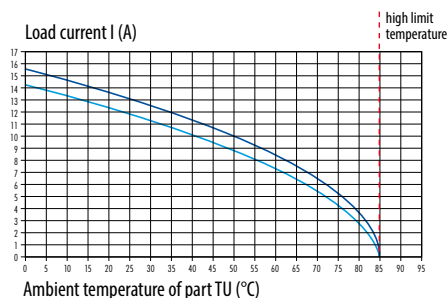


|   |   |   |                     |                |
|---|---|---|---------------------|----------------|
| Female cable duo connector, plastic locking system, screw clamp |  | 4 | 2 cables            | 99 0430 142 04 |
|   |   | 5 | 2,1–3 mm/<br>4–5 mm | 99 0436 142 05 |



**Rating**  
Derating curve according to DIN EN 60512 for **Power-Cable connector**

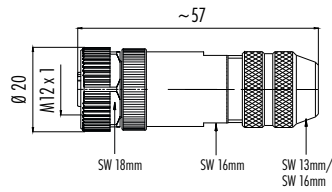
- 4 contacts
- 5 contacts



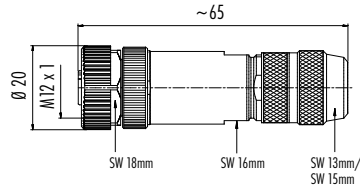
**Description**

**Drawing**

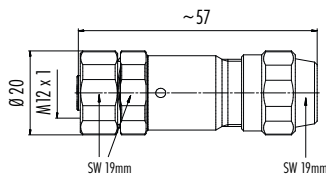
Female cable connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12



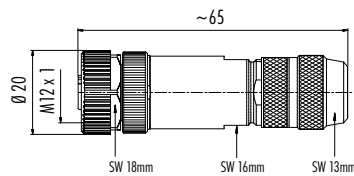
Female cable connector, screw clamp/wire clamp, iris type spring, shieldable



Female cable connector, screw clamp, with shielding ring, stainless steel version, shieldable

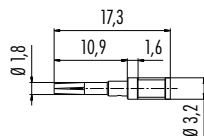


Female cable connector, crimp, shieldable



Crimp contacts see page 111/129

Female contact, PU 100 pieces



| Contacts         | Cable outlet | Screw clamp <sup>1)</sup> | Wire clamp           |
|------------------|--------------|---------------------------|----------------------|
| 4                | 4–6 mm       | 99 1430 814 04            | cRUUS 99 1526 814 04 |
|                  | 6–8 mm       | 99 1430 812 04            | cRUUS 99 1526 812 04 |
| 5                | 4–6 mm       | 99 1436 814 05            | cRUUS 99 1538 814 05 |
|                  | 6–8 mm       | 99 1436 812 05            | cRUUS 99 1538 812 05 |
| 8                | 6–8 mm       | 99 1486 812 08            | cRUUS –              |
|                  | 8–10 mm      | 99 1486 914 08            | cRUUS –              |
| 12 <sup>1)</sup> | 6–8 mm       | 99 1492 812 12            | cRUUS –              |

|   |        |                |                      |
|---|--------|----------------|----------------------|
| 4 | 5–8 mm | 99 1432 814 04 | cRUUS 99 1528 814 04 |
| 5 | 5–8 mm | 99 1438 814 05 | cRUUS 99 1540 814 05 |
| 8 | 5–8 mm | 99 1488 814 08 | cRUUS –              |
|   | 8–9 mm | 99 1488 812 08 | cRUUS –              |

|   |            |                |  |
|---|------------|----------------|--|
| 4 | 3–5,5 mm   | 99 1430 991 04 |  |
|   | 5,5–8,6 mm | 99 1430 992 04 |  |
| 5 | 3–5,5 mm   | 99 1436 991 05 |  |
|   | 5,5–8,6 mm | 99 1436 992 05 |  |
| 8 | 5,5–8,6 mm | 99 1486 992 08 |  |

|   |        |                |  |
|---|--------|----------------|--|
| 4 | 5–8 mm | 99 1434 814 04 |  |
|---|--------|----------------|--|

**NEW**

| Wire gauge                                  | AWG   | Ordering-No. |
|---|-------|--------------|
| 0,14 mm <sup>2</sup> – 0,34 mm <sup>2</sup> | 26–22 | 61 1227 146  |
| 0,34 mm <sup>2</sup> – 0,5 mm <sup>2</sup>  | 22–20 | 61 1155 146  |
| 0,75 mm <sup>2</sup> – 1,0 mm <sup>2</sup>  | 18–16 | 61 1228 146  |
| 1,0 mm <sup>2</sup> – 1,5 mm <sup>2</sup>   | 16    | 61 1229 146  |

**NEW**

| Description   | Drawing | Contacts      | Cable outlet | Screw clamp <sup>1)</sup> | Wire clamp |               |
|---|---------|---------------|--------------|---------------------------|------------|---------------|
| Female angled connector, screw clamp, solder termination on contact 12/wire clamp |         | 3             | 4-6 mm       | 99 0430 27 04             |            | -             |
|   |         |               | 6-8 mm       | 99 0430 161 04            |            | -             |
|   |         |               | 2,5-3,5 mm   | 99 0430 324 04            |            | -             |
|   |         | 4             | 4-6 mm       | 99 0430 24 04             |            | 99 0524 24 04 |
|   |         |               | 6-8 mm       | 99 0430 52 04             |            | 99 0524 52 04 |
| 5   | 4-6 mm  | 99 0436 24 05 |              | 99 0536 24 05             |            |               |
| 12 <sup>1)</sup>  | 6-8 mm  | 99 0492 52 12 |              | -                         |            |               |

|  |  |   |        |                |  |
|--|--|---|--------|----------------|--|
| Female angled connector, stainless steel locking ring, screw clamp |  | 4 | 4-6 mm | 99 0430 92 04  |  |
|  |  |   | 6-8 mm | 99 0430 292 04 |  |
|  |  | 5 | 4-6 mm | 99 0436 92 05  |  |
|  |  |   | 6-8 mm | 99 0436 292 05 |  |
|  |  |   |        |                |  |

|  |  |   |        |               |                     |
|--|--|---|--------|---------------|---------------------|
| Female angled connector, plastic locking system, screw clamp |  | 4 | 4-6 mm | 99 0430 00 04 |                     |
|  |  |   | 6-8 mm | 99 0430 20 04 | transparent housing |
|  |  |   | 6-8 mm | 99 0430 69 04 |                     |
|  |  | 5 | 4-6 mm | 99 0436 00 05 |                     |
|  |  |   | 6-8 mm | 99 0436 69 05 | transparent housing |

|                                |  |   |         |               |                     |
|--------------------------------|--|---|---------|---------------|---------------------|
| Female angled connector, Power |  | 4 | 8-10 mm | 99 0430 58 04 |                     |
|                                |  | 5 | 8-10 mm | 99 0436 68 04 | transparent housing |
|                                |  |   |         | 99 0436 69 05 | transparent housing |

It is possible to turn and fix the contact carrier in 4 different 90° positions

|  |  |                  |        |                |  |                |
|--|--|------------------|--------|----------------|--|----------------|
| Female angled connector, screw clamp/wire clamp, with shielding ring, shieldable, solder termination on contact 12 |  | 4                | 4-6 mm | 99 1430 824 04 |  | 99 1526 824 04 |
|  |  |                  | 6-8 mm | 99 1430 822 04 |  | 99 1526 822 04 |
|  |  | 5                | 4-6 mm | 99 1436 824 05 |  | 99 1538 824 05 |
|  |  |                  | 6-8 mm | 99 1436 822 05 |  | 99 1538 822 05 |
|  |  | 12 <sup>1)</sup> | 6-8 mm | 99 1492 822 12 |  | -              |

It is possible to turn and fix the contact carrier in 4 different 90° positions

|   |  |   |        |                |  |                |
|---|--|---|--------|----------------|--|----------------|
| Female angled connector, screw clamp/wire clamp, iris type spring, shieldable |  | 4 | 5-8 mm | 99 1432 824 04 |  | 99 1528 824 04 |
|   |  | 5 | 5-8 mm | 99 1438 824 05 |  | 99 1540 824 05 |

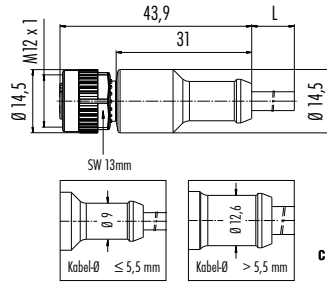
It is possible to turn and fix the contact carrier in 4 different 90° positions

<sup>1)</sup>Version with solder contacts.

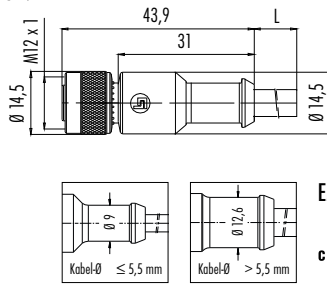
**Description**

**Drawing**

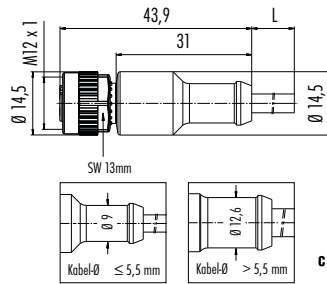
Female cable connector, moulded, PVC (grey), PUR (black)



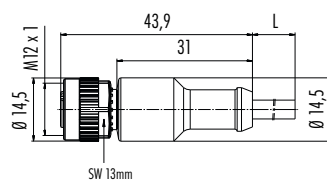
Female cable connector, moulded, shielded, PVC (grey), PUR (black)



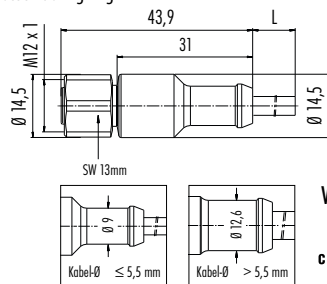
Female cable connector, moulded, 120 °C



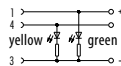
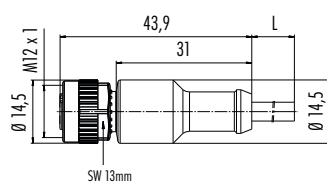
Female cable connector, moulded, PUR, for welding application



Female cable connector, moulded, PUR, stainless steel locking ring



Female cable connector, moulded, PVC (grey), PUR (black), with LED, PNP



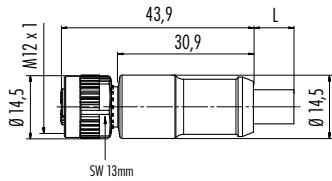
| Contacts               | Cable length | PVC (cable grey) <sup>1)</sup> | PUR (cable black) <sup>1)</sup> |
|------------------------|--------------|--------------------------------|---------------------------------|
| 3 x 0,34               | 2 m          | 77 3430 0000 20003-0200        | 77 3430 0000 50003-0200         |
|                        | 5 m          | 77 3430 0000 20003-0500        | 77 3430 0000 50003-0500         |
| 4 x 0,34               | 2 m          | 77 3430 0000 20004-0200        | 77 3430 0000 50004-0200         |
|                        | 5 m          | 77 3430 0000 20004-0500        | 77 3430 0000 50004-0500         |
| 5 x 0,25               | 2 m          | 77 3430 0000 20005-0200        | 77 3430 0000 50005-0200         |
|                        | 5 m          | 77 3430 0000 20005-0500        | 77 3430 0000 50005-0500         |
| 8 x 0,25 <sup>2)</sup> | 2 m          | -                              | 77 3430 0000 50608-0200         |
|                        | 5 m          | -                              | 77 3430 0000 50608-0500         |
| 8 x 0,25               | 2 m          | 77 3430 0000 20708-0200        | 77 3430 0000 50708-0200         |
|                        | 5 m          | 77 3430 0000 20708-0500        | 77 3430 0000 50708-0500         |
| 12 x 0,25              | 2 m          | 77 3430 0000 20712-0200        | 77 3430 0000 50712-0200         |
|                        | 5 m          | 77 3430 0000 20712-0500        | 77 3430 0000 50712-0500         |
| 3 x 0,34               | 2 m          | 77 3530 0000 20703-0200        | 77 3530 0000 50703-0200         |
|                        | 5 m          | 77 3530 0000 20703-0500        | 77 3530 0000 50703-0500         |
| 4 x 0,34               | 2 m          | 77 3530 0000 20704-0200        | 77 3530 0000 50704-0200         |
|                        | 5 m          | 77 3530 0000 20704-0500        | 77 3530 0000 50704-0500         |
| 5 x 0,25               | 2 m          | 77 3530 0000 20705-0200        | 77 3530 0000 50705-0200         |
|                        | 5 m          | 77 3530 0000 20705-0500        | 77 3530 0000 50705-0500         |
| 8 x 0,25               | 2 m          | 77 3530 0000 20708-0200        | 77 3530 0000 50708-0200         |
|                        | 5 m          | 77 3530 0000 20708-0500        | 77 3530 0000 50708-0500         |

| Contacts | Cable length | PUR (cable black) <sup>1)</sup> |
|----------|--------------|---------------------------------|
| 3 x 0,34 | 2 m          | 77 3430 0000 70003-0200         |
|          | 5 m          | 77 3430 0000 70003-0500         |
| 4 x 0,34 | 2 m          | 77 3430 0000 70004-0200         |
|          | 5 m          | 77 3430 0000 70004-0500         |

| Contacts | Cable length | PUR (cable orange) <sup>1)</sup> | PUR (cable black) <sup>1)</sup> |
|----------|--------------|----------------------------------|---------------------------------|
| 3 x 0,34 | 2 m          | 77 3430 0000 80003-0200          | 77 3430 0000 80203-0200         |
|          | 5 m          | 77 3430 0000 80003-0500          | 77 3430 0000 80203-0500         |
| 4 x 0,34 | 2 m          | 77 3430 0000 80004-0200          | 77 3430 0000 80204-0200         |
|          | 5 m          | 77 3430 0000 80004-0500          | 77 3430 0000 80204-0500         |
| 5 x 0,25 | 2 m          | 77 3430 0000 80005-0200          | 77 3430 0000 80205-0200         |
|          | 5 m          | 77 3430 0000 80005-0500          | 77 3430 0000 80205-0500         |

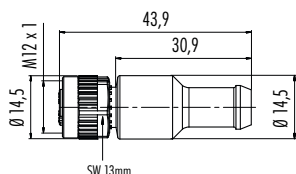
| Contacts | Cable length | PUR (cable black) <sup>1)</sup> |
|----------|--------------|---------------------------------|
| 3 x 0,34 | 2 m          | 77 3730 0000 50003-0200         |
|          | 5 m          | 77 3730 0000 50003-0500         |
| 4 x 0,34 | 2 m          | 77 3730 0000 50004-0200         |
|          | 5 m          | 77 3730 0000 50004-0500         |
| 5 x 0,25 | 2 m          | 77 3730 0000 50005-0200         |
|          | 5 m          | 77 3730 0000 50005-0500         |
| 8 x 0,25 | 2 m          | 77 3730 0000 50708-0200         |
|          | 5 m          | 77 3730 0000 50708-0500         |

| Contacts | Cable length | PVC (cable grey) <sup>1)</sup> | PUR (cable black) <sup>1)</sup> |
|----------|--------------|--------------------------------|---------------------------------|
| 3 x 0,34 | 2 m          | 77 3630 0000 20003-0200        | 77 3630 0000 50003-0200         |
|          | 5 m          | 77 3630 0000 20003-0500        | 77 3630 0000 50003-0500         |
| 4 x 0,34 | 2 m          | 77 3630 0000 20004-0200        | 77 3630 0000 50004-0200         |
|          | 5 m          | 77 3630 0000 20004-0500        | 77 3630 0000 50004-0500         |

| Description                     | Drawing   | Contacts | Cable length | Ordering-No. <sup>1)</sup> |
|---------------------------------|---|----------|--------------|----------------------------|
| Female cable connector, CAN-Bus |  | 5        | 2 m          | 77 2530 0000 50705-0200    |
|                                 |   |          | 5 m          | 77 2530 0000 50705-0500    |
|                                 |   |          | 10 m         | 77 2530 0000 50705-1000    |



|                                       |  |   |   |                    |
|---------------------------------------|--|---|---|--------------------|
| Female terminating connector, CAN-Bus |  | 5 | – | 77 9840 0000 00005 |
|---------------------------------------|--|---|---|--------------------|



Pin assignment

- 1 not assembled
- 2 not assembled
- 3 not assembled
- 4 Resistor
- 5 120 Ω

| Specifications                  | Standard Cable  |        |                                   |        |                                   |        |                                   |     |                                    |     |
|---------------------------------|---|--------|-----------------------------------|--------|-----------------------------------|--------|-----------------------------------|-----|------------------------------------|-----|
| Contacts                        | 3   |        | 4                                 |        | 5                                 |        | 8                                 |     | 12                                 |     |
| Wire gauge                      | 3 x 0,34 mm <sup>2</sup> (AWG 22)   |        | 4 x 0,34 mm <sup>2</sup> (AWG 22) |        | 5 x 0,34 mm <sup>2</sup> (AWG 24) |        | 8 x 0,25 mm <sup>2</sup> (AWG 24) |     | 12 x 0,25 mm <sup>2</sup> (AWG 24) |     |
| Material jacket                 | PVC   | PUR    | PVC                               | PUR    | PVC                               | PUR    | PVC                               | PUR | PVC                                | PUR |
| Insulation of wire              | PVC   | PP     | PVC                               | PP     | PVC                               | PP     | PVC                               | PP  | PVC                                | PP  |
| Design of wire (mm)             | 32 x 0,1  |        |                                   |        |                                   |        |                                   |     |                                    |     |
| Cable diameter (mm)             | 4,5   | 4,3    | 4,8                               | 4,7    | 4,8                               | 4,7    | 6                                 |     | 6,6                                | 6,5 |
| Temperature range cable in move | PVC: -5 °C / + 105 °C    PUR: -25 °C / + 90 °C    (in chain flex application + 60 °C) |        |                                   |        |                                   |        |                                   |     |                                    |     |
| Temperature range cable fixed   | PVC: -40 °C / + 105 °C    PUR: -50 °C / + 90 °C                                       |        |                                   |        |                                   |        |                                   |     |                                    |     |
| Bending radius (at 10 x D)      | 2 Mio.  | 5 Mio. | 2 Mio.                            | 5 Mio. | 2 Mio.                            | 5 Mio. |                                   |     | 2 Mio.                             |     |
| Approval                        | UL/CSA  |        |                                   |        |                                   |        |                                   |     |                                    |     |
| UL-style                        | PVC: AWM 2517    PUR: AWM 20549   |        |                                   |        |                                   |        |                                   |     |                                    |     |
| Chain flex application          | bending radius min. 10 x D, permitted acceleration 5 m/s <sup>2</sup>                 |        |                                   |        |                                   |        |                                   |     |                                    |     |

| Specifications                  | Shielded cable  |     |                                   |     |   |     |                                   |     |
|---------------------------------|---|-----|-----------------------------------|-----|---|-----|-----------------------------------|-----|
| Contacts                        | 3   |     | 4                                 |     | 5   |     | 8                                 |     |
| Wire gauge                      | 3 x 0,34 mm <sup>2</sup> (AWG 22)   |     | 4 x 0,34 mm <sup>2</sup> (AWG 22) |     | 5 x 0,25 mm <sup>2</sup> (AWG 24)               |     | 8 x 0,25 mm <sup>2</sup> (AWG 24) |     |
| Material jacket                 | PVC   | PUR | PVC                               | PUR | PVC   | PUR | PVC                               | PUR |
| Insulation of wire              | PVC   | PP  | PVC                               | PP  | PVC   | PP  | PVC                               | PP  |
| Design of wire (mm)             | 42 x 0,1  |     |                                   |     | 32 x 0,1  |     |                                   |     |
| Cable diameter (mm)             | 5   | 4,6 | 5,4                               | 4,7 | 5,7   | 4,8 | 6,8                               | 6   |
| Temperature range cable in move | PVC: -5 °C / + 105 °C    PUR: -25 °C / + 90 °C    (in chain flex application + 60 °C) |     |                                   |     |   |     |                                   |     |
| Temperature range cable fixed   | PVC: -20 °C / + 105 °C    PUR: -50 °C / + 80 °C                                       |     |                                   |     | PVC: -40 °C / + 105 °C    PUR: -50 °C / + 80 °C |     |                                   |     |
| Bending radius (at 10 x D)      | 2 Mio.  |     |                                   |     |   |     |                                   |     |
| Approval                        | UL/CSA  |     |                                   |     |   |     |                                   |     |
| Cover screen grid               | 85 %  |     |                                   |     |   |     |                                   |     |
| Chain flex application          | bending radius min. 10 x D, permitted acceleration 5 m/s <sup>2</sup>                 |     |                                   |     |   |     |                                   |     |

| Specifications      | CAN-Bus Cable                     |
|---------------------|-----------------------------------|
| Contacts            | 5                                 |
| Wire gauge          | 1 x 2 x AWG 22 and 1 x 2 x AWG 24 |
| Material jacket     | PUR                               |
| Insulation of wire  | Polyolefine                       |
| Design of wire (mm) | 19 x 0,16/19 x 0,13               |
| Cable diameter (mm) | 7,2                               |
| UL-style            | AWM 1581, AWM 444                 |

<sup>1)</sup> Standard-Cable length 2 m/5 m/10 m. Other length on request.

**Description**

**Drawing**

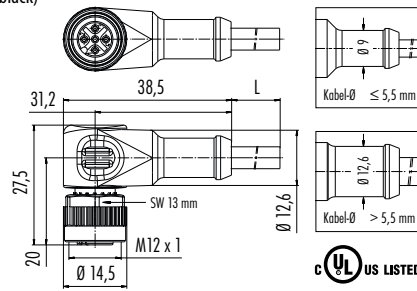
**Contacts**

**Cable length**

**PVC (cable grey)<sup>1)</sup>**

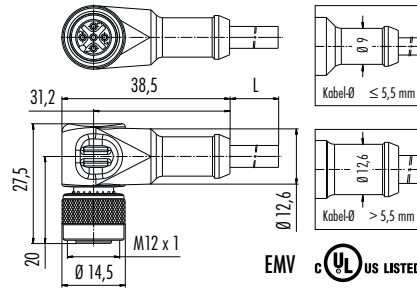
**PUR (cable black)<sup>1)</sup>**

Female angled connector, moulded, PVC (grey), PUR (black)



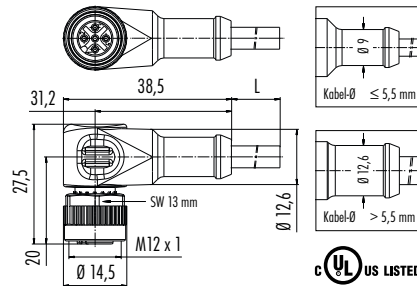
|                        |     |                         |                         |
|------------------------|-----|-------------------------|-------------------------|
| 3 x 0,34               | 2 m | 77 3434 0000 20003-0200 | 77 3434 0000 50003-0200 |
|                        | 5 m | 77 3434 0000 20003-0500 | 77 3434 0000 50003-0500 |
| 4 x 0,34               | 2 m | 77 3434 0000 20004-0200 | 77 3434 0000 50004-0200 |
|                        | 5 m | 77 3434 0000 20004-0500 | 77 3434 0000 50004-0500 |
| 5 x 0,25               | 2 m | 77 3434 0000 20005-0200 | 77 3434 0000 50005-0200 |
|                        | 5 m | 77 3434 0000 20005-0500 | 77 3434 0000 50005-0500 |
| 8 x 0,25 <sup>2)</sup> | 2 m | -                       | 77 3434 0000 50608-0200 |
|                        | 5 m | -                       | 77 3434 0000 50608-0500 |
| 8 x 0,25               | 2 m | 77 3434 0000 20708-0200 | 77 3434 0000 50708-0200 |
|                        | 5 m | 77 3434 0000 20708-0500 | 77 3434 0000 50708-0500 |
| 12 x 0,25              | 2 m | 77 3434 0000 20712-0200 | 77 3434 0000 50712-0200 |
|                        | 5 m | 77 3434 0000 20712-0500 | 77 3434 0000 50712-0500 |

Female angled connector, moulded, shielded, PVC (grey), PUR (black)



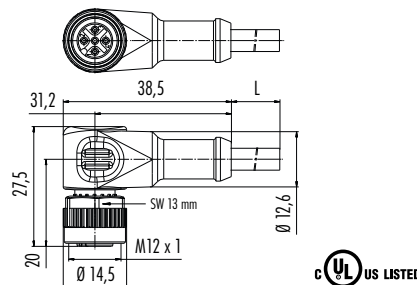
|          |     |                         |                         |
|----------|-----|-------------------------|-------------------------|
| 3 x 0,34 | 2 m | 77 3534 0000 20703-0200 | 77 3534 0000 50703-0200 |
|          | 5 m | 77 3534 0000 20703-0500 | 77 3534 0000 50703-0500 |
| 4 x 0,34 | 2 m | 77 3534 0000 20704-0200 | 77 3534 0000 50704-0200 |
|          | 5 m | 77 3534 0000 20704-0500 | 77 3534 0000 50704-0500 |
| 5 x 0,25 | 2 m | 77 3534 0000 20705-0200 | 77 3534 0000 50705-0200 |
|          | 5 m | 77 3534 0000 20705-0500 | 77 3534 0000 50705-0500 |
| 8 x 0,25 | 2 m | 77 3534 0000 20708-0200 | 77 3534 0000 50708-0200 |
|          | 5 m | 77 3534 0000 20708-0500 | 77 3534 0000 50708-0500 |

Female angled connector, moulded, 120 °C



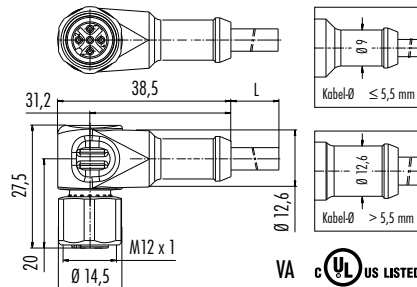
|          |     |                         |  |
|----------|-----|-------------------------|--|
| 3 x 0,34 | 2 m | 77 3434 0000 70003-0200 |  |
|          | 5 m | 77 3434 0000 70003-0500 |  |
| 4 x 0,34 | 2 m | 77 3434 0000 70004-0200 |  |
|          | 5 m | 77 3434 0000 70004-0500 |  |

Female angled connector, moulded, PUR, for welding application



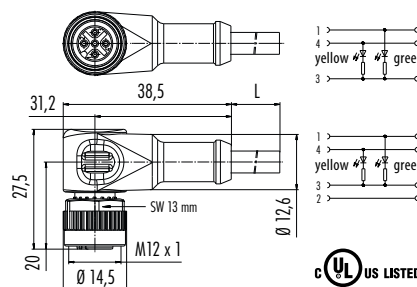
|          |     |                         |                         |
|----------|-----|-------------------------|-------------------------|
| 3 x 0,34 | 2 m | 77 3434 0000 80003-0200 | 77 3434 0000 80203-0200 |
|          | 5 m | 77 3434 0000 80003-0500 | 77 3434 0000 80203-0500 |
| 4 x 0,34 | 2 m | 77 3434 0000 80004-0200 | 77 3434 0000 80204-0200 |
|          | 5 m | 77 3434 0000 80004-0500 | 77 3434 0000 80204-0500 |
| 5 x 0,25 | 2 m | 77 3434 0000 80005-0200 | 77 3434 0000 80205-0200 |
|          | 5 m | 77 3434 0000 80005-0500 | 77 3434 0000 80205-0500 |

Female angled connector, moulded, PUR, stainless steel locking ring



|          |              |                         |  |
|----------|--------------|-------------------------|--|
| 3 x 0,34 | 2 m          | 77 3734 0000 50003-0200 |  |
|          | 5 m          | 77 3734 0000 50003-0500 |  |
| 4 x 0,34 | 2 m LED, PNP | 77 3834 0000 50003-0200 |  |
|          | 5 m LED, PNP | 77 3834 0000 50003-0500 |  |
| 5 x 0,25 | 2 m          | 77 3734 0000 50004-0200 |  |
|          | 5 m          | 77 3734 0000 50004-0500 |  |
| 8 x 0,25 | 2 m          | 77 3734 0000 50005-0200 |  |
|          | 5 m          | 77 3734 0000 50005-0500 |  |

Female angled connector, moulded, PVC (grey), PUR (black), with LED, PNP

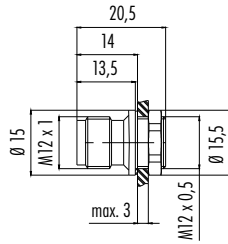


|          |     |                         |                         |
|----------|-----|-------------------------|-------------------------|
| 3 x 0,34 | 2 m | 77 3634 0000 20003-0200 | 77 3634 0000 50003-0200 |
|          | 5 m | 77 3634 0000 20003-0500 | 77 3634 0000 50003-0500 |
| 4 x 0,34 | 2 m | 77 3634 0000 20004-0200 | 77 3634 0000 50004-0200 |
|          | 5 m | 77 3634 0000 20004-0500 | 77 3634 0000 50004-0500 |

**Description**

Male panel mount connector, fixing thread, solder

**Drawing**



**Contacts**

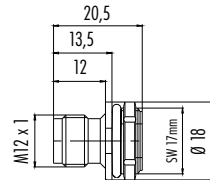
**Fixing thread**

**Ordering-No.**

|   |           |               |
|---|-----------|---------------|
| 4 |           | 09 0431 81 04 |
| 5 | M12 x 0,5 | 09 0433 81 05 |
| 8 |           | 09 0381 81 08 |



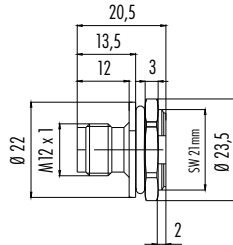
Male panel mount connector, fixing thread, solder



|   |           |                   |
|---|-----------|-------------------|
| 4 | PG 9      | 86 4231 1002 0004 |
|   | M16 x 1,5 | 86 4331 1002 0004 |
| 5 | PG 9      | 86 4231 1002 0005 |
|   | M16 x 1,5 | 86 4331 1002 0005 |
| 8 | PG 9      | 86 4231 1002 0008 |
|   | M16 x 1,5 | 86 4331 1002 0008 |



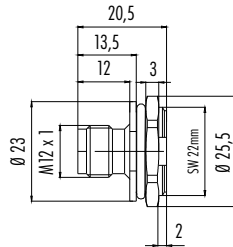
Male panel mount connector, fixing thread, solder



|   |       |               |
|---|-------|---------------|
| 4 | PG 11 | 09 0435 87 04 |
| 5 |       | 09 0437 87 05 |



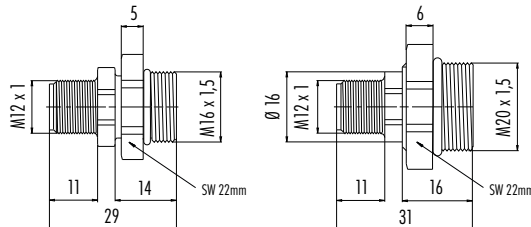
Male panel mount connector, fixing thread, solder



|   |           |                   |
|---|-----------|-------------------|
| 4 | PG 13,5   | 86 4531 1002 0004 |
|   | M20 x 1,5 | 86 4631 1002 0004 |
| 5 | PG 13,5   | 86 4531 1002 0005 |
|   | M20 x 1,5 | 86 4631 1002 0005 |



Male panel mount connector, metric fixing thread, positioning possible, solder



|   |           |                |
|---|-----------|----------------|
| 4 | M16 x 1,5 | 09 0431 397 04 |
|   | M20 x 1,5 | 09 0439 397 04 |



**Specifications**

**Panel mount connector**

| Contacts             | 4  | 5  | 8              | 12                             |
|----------------------|--|--|----------------|--------------------------------|
| Wire gauge           | max. 0,25 mm <sup>2</sup> (max. AWG 24), single wires AWG 24 (0,25 mm <sup>2</sup> ), Power: max. 1,5 mm <sup>2</sup> (max. AWG 16), single wires AWG 18 |  |                | AWG 26 (0,14 mm <sup>2</sup> ) |
| Mechanical operation | > 100 Mating cycles  |  |                |                                |
| Temperature range    | - 40 °C / + 85 °C  |  |                |                                |
| Rated voltage        | 250 V  | 60 V (125 V UL)                                | 30 V (60 V UL) | 30 V                           |
| Pollution degree     | 3  |  |                |                                |
| Rated current (40°C) | 4 A (3 A UL), Power 8 A  | 4 A (3 A UL), Power cont. 1-4 8 A, cont. 5 2 A | 1,5 A (2 A UL) |                                |
| Contact plating      | Au (Gold)  |  |                |                                |
| Material of housing  | PA, zinc diecasting nickel plated  |  |                |                                |

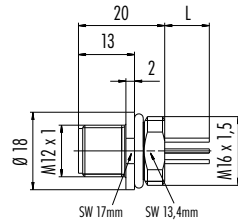


**Description**

**Drawing**

**Contacts Ordering-No. <sup>1)</sup>**

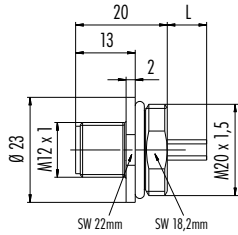
Male panel mount connector with single wires, AWG 24, M16 x 1,5, plastic housing



|    |                         |
|----|-------------------------|
| 4  | 76 4331 0011 00004-0200 |
| 5  | 76 4331 0011 00005-0200 |
| 8  | 76 4331 0011 00008-0200 |
| 12 | 76 4331 0111 00012-0200 |

**NEW**

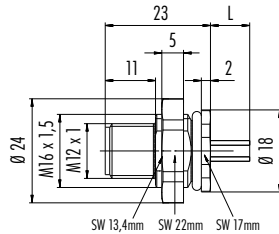
Male panel mount connector with single wires, AWG 24, M20 x 1,5, plastic housing



|    |                         |
|----|-------------------------|
| 4  | 76 4631 0011 00004-0200 |
| 5  | 76 4631 0011 00005-0200 |
| 8  | 76 4631 0011 00008-0200 |
| 12 | 76 4631 0111 00012-0200 |

**NEW**

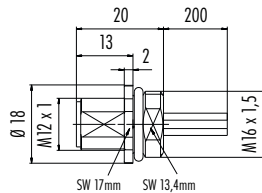
Male panel mount connector, front fastened, with single wires, AWG 24, M16 x 1,5, plastic housing



|    |                         |
|----|-------------------------|
| 4  | 76 4731 3011 00004-0200 |
| 5  | 76 4731 3011 00005-0200 |
| 8  | 76 4731 3011 00008-0200 |
| 12 | 76 4731 3111 00012-0200 |

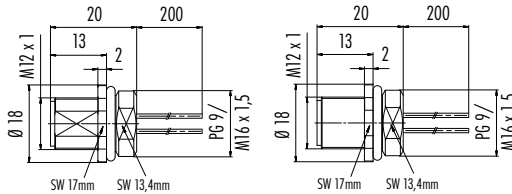
**NEW**

Male panel mount connector with single wires, AWG 24, metal housing



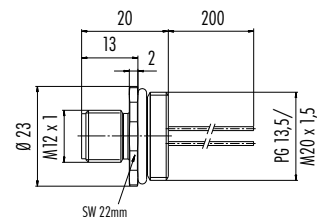
| Contacts  | Fixing thread           | Contact insert            | Ordering-No. <sup>1)</sup> |           |                         |
|-----------|-------------------------|---------------------------|----------------------------|-----------|-------------------------|
| 4         | M16 x 1,5 (AWG24)       | black                     | 76 0231 0011 00004-0200    |           |                         |
|           |                         | purple                    | 76 0231 0011 00104-0200    |           |                         |
|           |                         | orange                    | 76 0231 0011 00204-0200    |           |                         |
|           |                         | yellow                    | 76 0231 0011 00304-0200    |           |                         |
|           |                         | green                     | 76 0231 0011 00404-0200    |           |                         |
|           |                         | red                       | 76 0231 0011 00504-0200    |           |                         |
|           |                         | blue                      | 76 0231 0011 00604-0200    |           |                         |
|           |                         | black                     | 76 0231 0011 00005-0200    |           |                         |
|           |                         | purple                    | 76 0231 0011 00105-0200    |           |                         |
|           |                         | orange                    | 76 0231 0011 00205-0200    |           |                         |
| 5         | M16 x 1,5 (AWG24)       | yellow                    | 76 0231 0011 00305-0200    |           |                         |
|           |                         | green                     | 76 0231 0011 00405-0200    |           |                         |
|           |                         | red                       | 76 0231 0011 00505-0200    |           |                         |
|           |                         | blue                      | 76 0231 0011 00605-0200    |           |                         |
|           |                         | black                     | 76 0131 0011 00004-0200    |           |                         |
|           |                         | PG 9                      | 76 2131 0111 00004-0200    |           |                         |
|           |                         | PG 9 Stainless steel      | 09 3431 433 04             |           |                         |
|           |                         | M16 x 1,5 Stainless steel | 76 2231 0111 00004-0200    |           |                         |
|           |                         | PG 9                      | 76 0131 0011 00005-0200    |           |                         |
|           |                         | PG 9 Stainless steel      | 76 2131 0111 00005-0200    |           |                         |
| 5         | M16 x 1,5 (AWG24)       | black                     | 09 3441 433 05             |           |                         |
|           |                         | M16 x 1,5 Stainless steel | 76 2231 0111 00005-0200    |           |                         |
|           |                         | PG 9                      | 76 0131 0011 00008-0200    |           |                         |
|           |                         | M16 x 1,5                 | 76 0231 0011 00008-0200    |           |                         |
|           |                         | PG 9 Stainless steel      | 76 2131 0111 00008-0200    |           |                         |
|           |                         | M16 x 1,5 Stainless steel | 76 2231 0111 00008-0200    |           |                         |
|           |                         | PG 9                      | 76 0131 0111 00012-0200    |           |                         |
|           |                         | M16 x 1,5                 | 76 0231 0111 00012-0200    |           |                         |
|           |                         | 8                         | M16 x 1,5 (AWG24)          | PG 9      | 76 0331 0111 00004-0200 |
|           |                         |                           |                            | M20 x 1,5 | 76 0431 0111 00004-0200 |
| PG 13,5   | 76 0331 0111 00005-0200 |                           |                            |           |                         |
| M20 x 1,5 | 76 0431 0111 00005-0200 |                           |                            |           |                         |
| PG 13,5   | 76 0331 0111 00008-0200 |                           |                            |           |                         |
| M20 x 1,5 | 76 0431 0111 00008-0200 |                           |                            |           |                         |
| PG 13,5   | 76 0331 0111 00012-0200 |                           |                            |           |                         |
| M20 x 1,5 | 76 0431 0111 00012-0200 |                           |                            |           |                         |
| 12        | M16 x 1,5 (AWG24)       |                           |                            | PG 9      | 76 0331 0111 00012-0200 |
|           |                         |                           |                            | M20 x 1,5 | 76 0431 0111 00012-0200 |

Male panel mount connector with single wires/Power with single wires, metal housing



|           |                         |                           |                         |           |                         |
|-----------|-------------------------|---------------------------|-------------------------|-----------|-------------------------|
| 4         | M16 x 1,5 (AWG24)       | PG 9                      | 76 0131 0011 00004-0200 |           |                         |
|           |                         | PG 9 Stainless steel      | 76 2131 0111 00004-0200 |           |                         |
|           |                         | PG 9 Power                | 09 3431 433 04          |           |                         |
|           |                         | M16 x 1,5 Stainless steel | 76 2231 0111 00004-0200 |           |                         |
|           |                         | PG 9                      | 76 0131 0011 00005-0200 |           |                         |
|           |                         | PG 9 Stainless steel      | 76 2131 0111 00005-0200 |           |                         |
|           |                         | PG 9 Power                | 09 3441 433 05          |           |                         |
|           |                         | M16 x 1,5 Stainless steel | 76 2231 0111 00005-0200 |           |                         |
|           |                         | PG 9                      | 76 0131 0011 00008-0200 |           |                         |
|           |                         | M16 x 1,5                 | 76 0231 0011 00008-0200 |           |                         |
| 5         | M16 x 1,5 (AWG24)       | PG 9 Stainless steel      | 76 2131 0111 00008-0200 |           |                         |
|           |                         | M16 x 1,5 Stainless steel | 76 2231 0111 00008-0200 |           |                         |
|           |                         | PG 9                      | 76 0131 0111 00012-0200 |           |                         |
|           |                         | M16 x 1,5                 | 76 0231 0111 00012-0200 |           |                         |
|           |                         | 8                         | M16 x 1,5 (AWG24)       | PG 9      | 76 0331 0111 00004-0200 |
|           |                         |                           |                         | M20 x 1,5 | 76 0431 0111 00004-0200 |
|           |                         |                           |                         | PG 13,5   | 76 0331 0111 00005-0200 |
|           |                         |                           |                         | M20 x 1,5 | 76 0431 0111 00005-0200 |
|           |                         |                           |                         | PG 13,5   | 76 0331 0111 00008-0200 |
|           |                         |                           |                         | M20 x 1,5 | 76 0431 0111 00008-0200 |
| PG 13,5   | 76 0331 0111 00012-0200 |                           |                         |           |                         |
| M20 x 1,5 | 76 0431 0111 00012-0200 |                           |                         |           |                         |
| 12        | M16 x 1,5 (AWG24)       |                           |                         | PG 9      | 76 0331 0111 00012-0200 |
|           |                         |                           |                         | M20 x 1,5 | 76 0431 0111 00012-0200 |

Male panel mount connector with single wires, AWG 24, metal housing

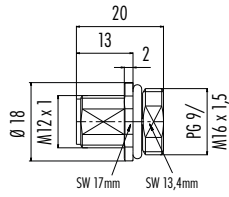


|   |                   |           |                         |           |                         |
|---|-------------------|-----------|-------------------------|-----------|-------------------------|
| 4 | M16 x 1,5 (AWG24) | PG 13,5   | 76 0331 0111 00004-0200 |           |                         |
|   |                   | M20 x 1,5 | 76 0431 0111 00004-0200 |           |                         |
|   |                   | PG 13,5   | 76 0331 0111 00005-0200 |           |                         |
|   |                   | M20 x 1,5 | 76 0431 0111 00005-0200 |           |                         |
|   |                   | PG 13,5   | 76 0331 0111 00008-0200 |           |                         |
|   |                   | M20 x 1,5 | 76 0431 0111 00008-0200 |           |                         |
|   |                   | PG 13,5   | 76 0331 0111 00012-0200 |           |                         |
|   |                   | M20 x 1,5 | 76 0431 0111 00012-0200 |           |                         |
|   |                   | 5         | M16 x 1,5 (AWG24)       | PG 13,5   | 76 0331 0111 00012-0200 |
|   |                   |           |                         | M20 x 1,5 | 76 0431 0111 00012-0200 |

**Description**

Male panel mount connector, solder, metal housing

**Drawing**



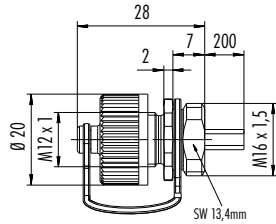
**Contacts**

**Fixing thread**

**Ordering-No.**

|   |           |                    |
|---|-----------|--------------------|
| 4 | PG 9      | 86 0131 0002 00004 |
|   | M16 x 1,5 | 86 0231 0002 00004 |
| 5 | PG 9      | 86 0131 0002 00005 |
|   | M16 x 1,5 | 86 0231 0002 00005 |
| 8 | PG 9      | 86 0131 0002 00008 |
|   | M16 x 1,5 | 86 0231 0002 00008 |

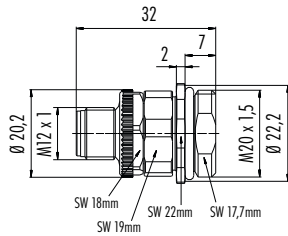
Male panel mount connector with single wires, Outdoor, IP68, IP69



**NEW**

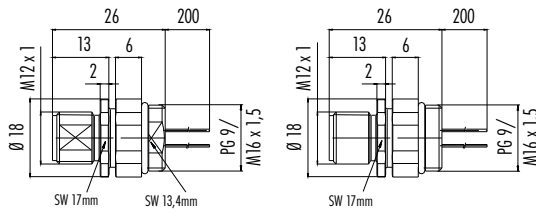
|   |           |                |
|---|-----------|----------------|
| 4 | M16 x 1,5 | 09 3431 284 04 |
|---|-----------|----------------|

Male panel mount connector, screw clamp termination/POWER screw clamp termination



|         |           |                    |
|---------|-----------|--------------------|
| 4 Power |           | 99 0431 500 04     |
| 5 Power | M20 x 1,5 | 99 0433 500 05     |
| 8       |           | 86 0431 0003 00008 |

Male panel mount connector, positioning possible, with single wires, metal housing

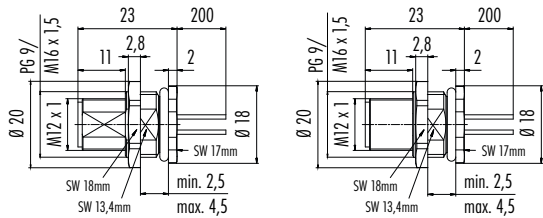


Stainless steel version



|    |                           |                         |
|----|---------------------------|-------------------------|
| 4  | PG 9                      | 76 0731 0011 00004-0200 |
|    | M16 x 1,5                 | 76 0831 0011 00004-0200 |
|    | PG 9 Stainless steel      | 76 2731 0111 00004-0200 |
|    | M16 x 1,5 Stainless steel | 76 2831 0111 00004-0200 |
| 5  | PG 9                      | 76 0731 0011 00005-0200 |
|    | M16 x 1,5                 | 76 0831 0011 00005-0200 |
|    | PG 9 Stainless steel      | 76 2731 0111 00005-0200 |
|    | M16 x 1,5 Stainless steel | 76 2831 0111 00005-0200 |
| 8  | PG 9                      | 76 0731 0011 00008-0200 |
|    | M16 x 1,5                 | 76 0831 0011 00008-0200 |
|    | PG 9 Stainless steel      | 76 2731 0111 00008-0200 |
|    | M16 x 1,5 Stainless steel | 76 2831 0111 00008-0200 |
| 12 | PG 9                      | 76 0731 0111 00012-0200 |
|    | M16 x 1,5                 | 76 0831 0111 00012-0200 |
| 4  | PG 9                      | 76 0531 1011 00004-0200 |
|    | M16 x 1,5 (AWG 24)        | 76 0631 1011 00004-0200 |
| 5  | PG 9                      | 76 0531 1011 00005-0200 |
|    | M16 x 1,5 (AWG 24)        | 76 0631 1011 00005-0200 |
| 8  | PG 9 Stainless steel      | 76 2531 1111 00005-0200 |
|    | PG 9                      | 76 0531 1011 00008-0200 |
| 12 | M16 x 1,5 (AWG 24)        | 76 0631 1011 00008-0200 |
|    | PG 9 Stainless steel      | 76 2531 1111 00008-0200 |
| 4  | PG 9                      | 76 0531 1111 00012-0200 |
|    | M16 x 1,5 (AWG 24)        | 76 0631 1111 00012-0200 |

Male panel mount connector, front fastened, with single wires, metal housing

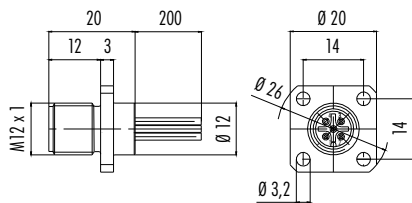


Stainless steel version



|    |                      |                         |
|----|----------------------|-------------------------|
| 4  | PG 9                 | 76 0531 1011 00004-0200 |
|    | M16 x 1,5 (AWG 24)   | 76 0631 1011 00004-0200 |
| 5  | PG 9                 | 76 0531 1011 00005-0200 |
|    | M16 x 1,5 (AWG 24)   | 76 0631 1011 00005-0200 |
| 8  | PG 9 Stainless steel | 76 2531 1111 00005-0200 |
|    | PG 9                 | 76 0531 1011 00008-0200 |
| 12 | M16 x 1,5 (AWG 24)   | 76 0631 1011 00008-0200 |
|    | PG 9 Stainless steel | 76 2531 1111 00008-0200 |

Male panel mount connector, rectangular flange, with single wires, metal housing



|    |   |                         |
|----|---|-------------------------|
| 4  | - | 76 0931 0111 00004-0200 |
| 5  | - | 76 0931 0111 00005-0200 |
| 8  | - | 76 0931 0111 00008-0200 |
| 12 | - | 76 0931 0111 00012-0200 |

<sup>1)</sup> Standard wire length is 200 mm for 76-order-numbers. Other length on request.

**Description**

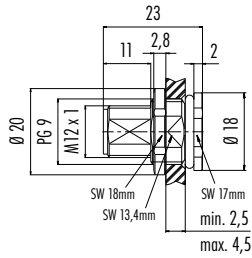
**Drawing**

**Contacts**

**Fixing thread**

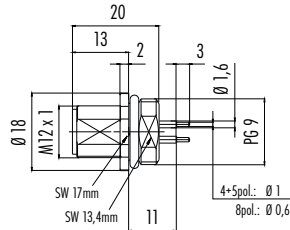
**Ordering-No.**

Male panel mount connector, front fastened, solder, unmounted, metal housing



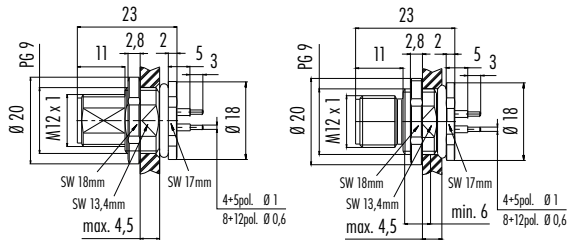
|   |           |                    |
|---|-----------|--------------------|
| 4 | PG 9      | 86 0531 1002 00004 |
|   | M16 x 1,5 | 86 0631 1002 00004 |
| 5 | PG 9      | 86 0531 1002 00005 |
|   | M16 x 1,5 | 86 0631 1002 00005 |
| 8 | PG 9      | 86 0531 1002 00008 |
|   | M16 x 1,5 | 86 0631 1002 00008 |

Male panel mount connector, dip-solder, metal housing



|    |           |                    |
|----|-----------|--------------------|
| 4  | PG 9      | 86 0131 0000 00004 |
|    | M16 x 1,5 | 86 0231 0000 00004 |
| 5  | PG 9      | 86 0131 0000 00005 |
|    | M16 x 1,5 | 86 0231 0000 00005 |
| 8  | PG 9      | 86 0131 0000 00008 |
|    | M16 x 1,5 | 86 0231 0000 00008 |
| 12 | PG 9      | 86 0131 0100 00012 |
|    | M16 x 1,5 | 86 0231 0100 00012 |

Male panel mount connector, front fastened, dip-solder, metal housing

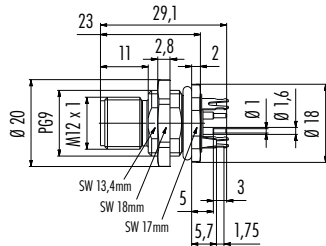


Stainless steel version



|    |                 |                    |
|----|-----------------|--------------------|
| 4  | PG 9            | 86 0531 1000 00004 |
|    | M16 x 1,5       | 86 0631 1000 00004 |
| 5  | PG 9            | 86 0531 1000 00005 |
|    | M16 x 1,5       | 86 0631 1000 00005 |
| 8  | PG 9            | 86 2531 1100 00005 |
|    | Stainless steel | 86 0531 1000 00008 |
| 8  | PG 9            | 86 0531 1000 00008 |
|    | M16 x 1,5       | 86 0631 1000 00008 |
| 12 | PG 9            | 86 2531 1100 00008 |
|    | Stainless steel | 86 0531 1100 00012 |
| 12 | PG 9            | 86 0531 1100 00012 |
|    | M16 x 1,5       | 86 0631 1100 00012 |

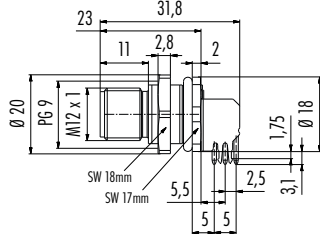
Male panel mount connector, front fastened, dip-solder, with shielding sheet



PCB thickness: 1,6 mm

|    |      |                    |
|----|------|--------------------|
| 4  |      | 86 0531 1120 00004 |
| 5  | PG 9 | 86 0531 1120 00005 |
| 8  |      | 86 0531 1120 00008 |
| 12 |      | 86 0531 1120 00012 |

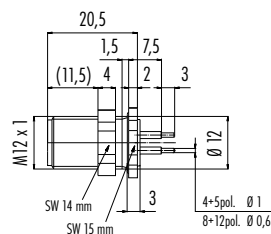
Male angled panel mount connector, front fastened, dip-solder, with shielding sheet



PCB thickness: 1,6 mm

|   |      |                    |
|---|------|--------------------|
| 4 |      | 86 0531 1121 00004 |
| 5 | PG 9 | 86 0531 1121 00005 |

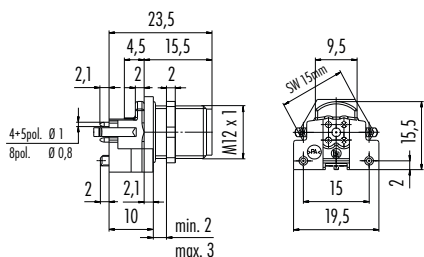
Male panel mount connector, front fastened, dip-solder, metal housing



|    |         |                    |
|----|---------|--------------------|
| 4  |         | 86 1031 1100 00004 |
| 5  | M12 x 1 | 86 1031 1100 00005 |
| 8  |         | 86 1031 1100 00008 |
| 12 |         | 86 1031 1100 00012 |

## Description

Male receptacle for PCB assembly



PCB thickness: 1,6 mm

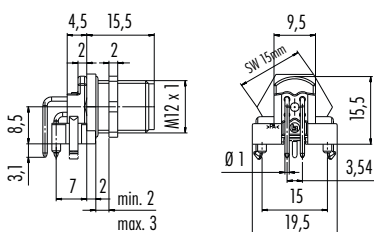
View of mating side



## Contacts Ordering-No.

|   |                |                      |
|---|----------------|----------------------|
| 4 | 99 3431 200 04 |                      |
|   | 99 3431 458 04 | with shielding sheet |
| 5 | 99 3441 200 05 |                      |
|   | 99 3441 458 05 | with shielding sheet |
| 8 | 99 3481 200 08 |                      |
|   | 99 3481 458 08 | with shielding sheet |

Male angled receptacle, for PCB assembly



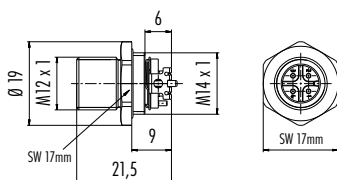
PCB thickness: 1,6 mm

View of mating side



|   |                |                      |
|---|----------------|----------------------|
| 4 | 99 3431 202 04 |                      |
|   | 99 3431 601 04 | with shielding sheet |
| 5 | 99 3441 202 05 |                      |
|   | 99 3441 601 05 | with shielding sheet |
| 8 | 99 3481 202 08 |                      |
|   | 99 3481 601 08 | with shielding sheet |

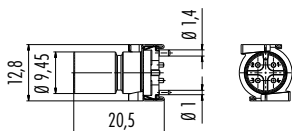
Male receptacle, SMT, with housing, not shieldable/shieldable



| Contacts | Mounting height | not shieldable | shieldable     |
|----------|-----------------|----------------|----------------|
| 4        |                 | 99 3431 351 04 | 99 3431 401 04 |
| 5        | 9 mm            | 99 3441 351 05 | 99 3441 401 05 |
| 8        |                 | 99 3481 351 08 | 99 3481 401 08 |

**NEW**

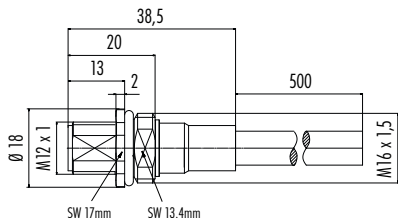
Male receptacle, SMT, not shieldable/shieldable



|   |   |                |                |
|---|---|----------------|----------------|
| 4 |   | 09 0431 600 04 | 09 0431 601 04 |
| 5 | - | 09 0433 600 05 | 09 0433 601 05 |
| 8 |   | 09 0381 600 08 | 09 0381 601 08 |

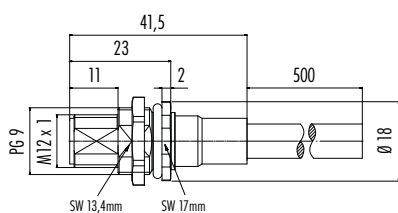
**NEW**

Male panel mount connector M16, with shielded PUR-cable



| Contacts | Cable length, PUR | Fixing thread | Ordering-No.   |
|----------|-------------------|---------------|----------------|
| 5        |                   |               | 70 3441 785 05 |
| 8        | 0,5 m             | M16 x 1,5     | 70 3481 785 08 |

Male panel mount connector PG 9, front fastened, with shielded PUR-cable



Hexagonal nut enclosed loose

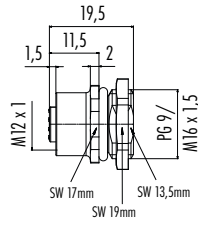
|   |       |      |                |
|---|-------|------|----------------|
| 5 | 0,5 m | PG 9 | 70 3441 287 05 |
| 8 |       |      | 70 3481 287 08 |

**Description**

Female panel mount connector, solder, plastic housing



**Drawing**



Hexagonal nut enclosed loose



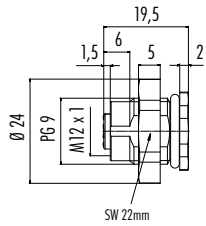
**Contacts**

**Fixing thread**

**Ordering-No.**

|   |           |                    |
|---|-----------|--------------------|
| 4 | PG 9      | 86 4232 1002 00004 |
|   | M16 x 1,5 | 86 4332 1002 00004 |
| 5 | PG 9      | 86 4232 1002 00005 |
|   | M16 x 1,5 | 86 4332 1002 00005 |
| 8 | PG 9      | 86 4232 1002 00008 |
|   | M16 x 1,5 | 86 4332 1002 00008 |

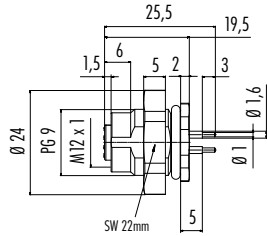
Female panel mount connector, front fastened, solder, plastic housing



Hexagonal nut enclosed loose

|   |      |                    |
|---|------|--------------------|
| 4 | PG 9 | 86 4832 3002 00004 |
| 5 |      | 86 4832 3002 00005 |
| 8 |      | 86 4832 3002 00008 |

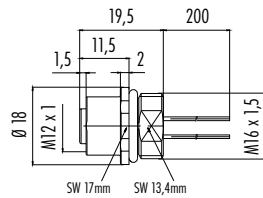
Female panel mount connector, front fastened, dip-solder, plastic housing



Hexagonal nut enclosed loose

|   |      |                    |
|---|------|--------------------|
| 4 | PG 9 | 86 4832 3000 00004 |
| 5 |      | 86 4832 3000 00005 |
| 8 |      | 86 4832 3000 00008 |

Female panel mount connector with single wires, AWG 24, M16 x 1,5, plastic housing

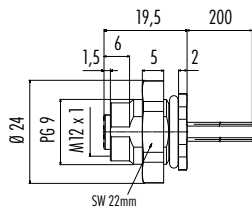


**Contacts**   **Ordering-No. <sup>1)</sup>**

|    |                         |
|----|-------------------------|
| 4  | 76 4332 0011 00004-0200 |
| 5  | 76 4332 0011 00005-0200 |
| 8  | 76 4332 0011 00008-0200 |
| 12 | 76 4332 0111 00012-0200 |


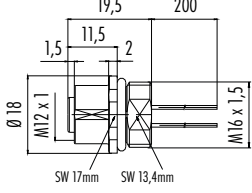

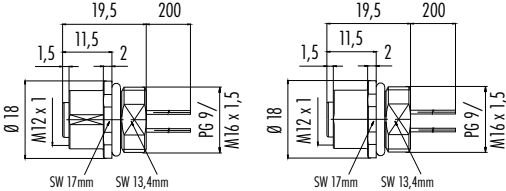

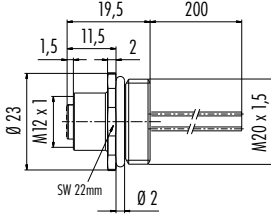

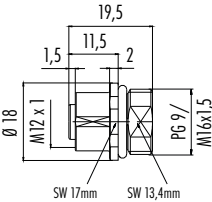

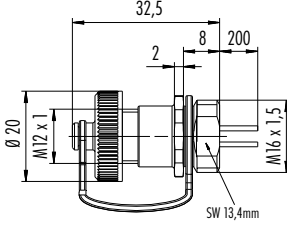

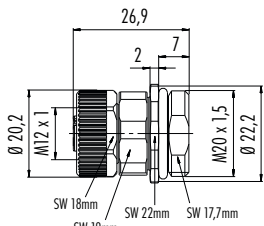
**NEW**

Female panel mount connector, front fastened, with single wires, AWG 24, PG 9, plastic housing



|    |                         |
|----|-------------------------|
| 4  | 76 4832 3011 00004-0200 |
| 5  | 76 4832 3011 00005-0200 |
| 8  | 76 4832 3011 00008-0200 |
| 12 | 76 4832 3111 00012-0200 |

**NEW**

| Description   | Drawing   | Contacts  | Fixing thread           | Contact insert  | Ordering-No. <sup>1)</sup>                                  |   |
|---|---|---|-------------------------|---|---|---|
| Female panel mount connector with single wires, AWG 24, metal housing                 |     |    | 4                       | M16 x 1,5 (AWG24)   | black<br>purple<br>orange<br>yellow<br>green<br>red<br>blue | 76 0232 0011 00004-0200<br>76 0232 0011 00104-0200<br>76 0232 0011 00204-0200<br>76 0232 0011 00304-0200<br>76 0232 0011 00404-0200<br>76 0232 0011 00504-0200<br>76 0232 0011 00604-0200 |
| Female panel mount connector with single wires/Power with single wires, metal housing |     |    | 4                       | PG 9<br>PG 9 Stainless steel<br>PG 9 Power<br>M16 x 1,5 Stainless steel | black   | 76 0132 0011 00004-0200<br>76 2132 0111 00004-0200<br>09 3432 433 04<br>76 2232 0111 00004-0200   |
| Female panel mount connector with single wires, AWG 24, metal housing                 |   |   | 4<br>5<br>8<br>12       | M20 x 1,5   | black   | 76 0432 0111 00004-0200<br>76 0432 0111 00005-0200<br>76 0432 0111 00008-0200<br>76 0432 0111 00012-0200  |
| Female panel mount connector, solder, metal housing                                   |  |  | 4<br>5<br>8             | PG 9<br>M16 x 1,5<br>PG 9<br>M16 x 1,5<br>PG 9<br>M16 x 1,5             |   | 86 0132 0002 00004<br>86 0232 0002 00004<br>86 0132 0002 00005<br>86 0232 0002 00005<br>86 0132 0002 00008<br>86 0232 0002 00008  |
| Female panel mount connector with single wires, Outdoor, IP68, IP69                   |   |  | 4                       | M16 x 1,5   |   | 09 3432 284 04  |
| Female panel mount connector, screw clamp termination/POWER screw clamp termination   |  |  | 4 Power<br>5 Power<br>8 | M20 x 1,5   |   | 99 0432 500 04<br>99 0434 500 05<br>86 0432 0003 00008  |

<sup>1)</sup> Standard wire length is 200 mm for 76-order-numbers. Other length on request.



### Description

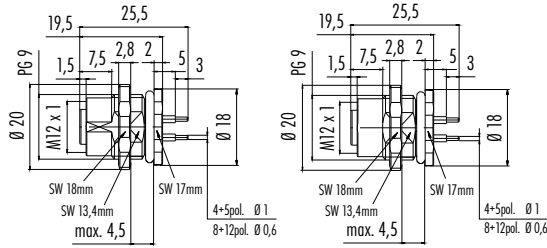
### Drawing

### Contacts

### Fixing thread

### Ordering-No.

Female panel mount connector, front fastened, dip-solder, 6 mm contact length

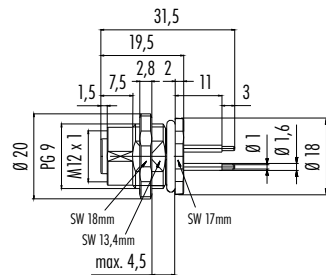


Stainless steel version



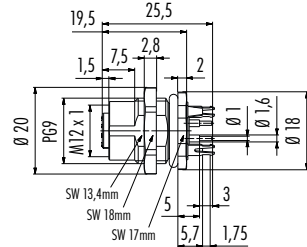
|    |                 |                    |
|----|-----------------|--------------------|
| 4  | PG 9            | 86 0532 1000 00004 |
|    | M16 x 1,5       | 86 0632 1000 00004 |
| 5  | PG 9            | 86 0532 1000 00005 |
|    | M16 x 1,5       | 86 0632 1000 00005 |
| 8  | PG 9            | 86 2532 1100 00005 |
|    | Stainless steel | 86 0532 1000 00008 |
| 12 | PG 9            | 86 0632 1000 00008 |
|    | Stainless steel | 86 0532 1100 00008 |
| 12 | PG 9            | 86 0532 1100 00012 |
|    | M16 x 1,5       | 86 0632 1100 00012 |

Female panel mount connector, front fastened, dip-solder, 12 mm contact length



|   |      |               |
|---|------|---------------|
| 4 | PG 9 | 09 3432 92 04 |
| 5 | PG 9 | 09 3442 92 05 |

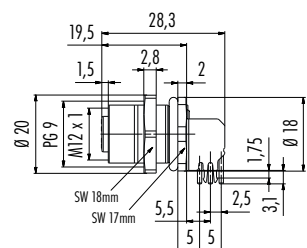
Female panel mount connector, front fastened, dip-solder, with shielding sheet



PCB thickness: 1,6 mm

|    |      |                    |
|----|------|--------------------|
| 4  |      | 86 0532 1120 00004 |
| 5  | PG 9 | 86 0532 1120 00005 |
| 8  |      | 86 0532 1120 00008 |
| 12 |      | 86 0532 1120 00012 |

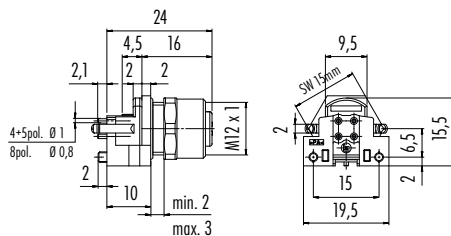
Female panel mount connector gewinkelt, front fastened, dip-solder, with shielding sheet



PCB thickness: 1,6 mm

|   |      |                    |
|---|------|--------------------|
| 4 | PG 9 | 86 0532 1121 00004 |
| 5 | PG 9 | 86 0532 1121 00005 |

Male receptacle for PCB assembly



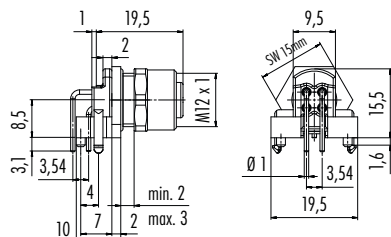
PCB thickness: 1,6 mm

View of mating side



| Contacts | Ordering-No.                        |
|----------|-------------------------------------|
| 4        | 99 3432 200 04                      |
| 4        | 99 3432 458 04 with shielding sheet |
| 5        | 99 3442 200 05                      |
| 5        | 99 3442 458 05 with shielding sheet |
| 8        | 99 3482 200 08                      |
| 8        | 99 3482 458 08 with shielding sheet |

Male angled receptacle, for PCB assembly



PCB thickness: 1,6 mm

View of mating side



|   |                                     |
|---|-------------------------------------|
| 4 | 99 3432 202 04                      |
| 4 | 99 3432 601 04 with shielding sheet |
| 5 | 99 3442 202 05                      |
| 5 | 99 3442 601 05 with shielding sheet |
| 8 | 99 3482 202 08                      |
| 8 | 99 3482 601 08 with shielding sheet |

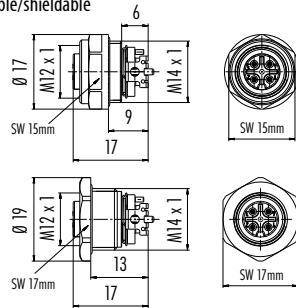


**Description**

**Drawing**

**Contacts    Mounting height    not shieldable    shieldable**

Female panel mount connector, SMT, with housing, not shieldable/shieldable



Mounting height 9 mm

Mounting height 13 mm

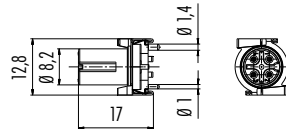
**NEW**

| Contacts | Mounting height | not shieldable | shieldable     |
|----------|-----------------|----------------|----------------|
| 4        | 9 mm            | 99 3432 351 04 | 99 3432 401 04 |
|          | 13 mm           | 99 3432 352 04 | 99 3432 402 04 |
| 5        | 9 mm            | 99 3442 351 05 | 99 3442 401 05 |
|          | 13 mm           | 99 3442 352 05 | 99 3442 402 05 |
| 8        | 9 mm            | 99 3482 351 08 | 99 3482 401 08 |
|          | 13 mm           | 99 3482 352 08 | 99 3482 402 08 |

Female panel mount connector, SMT, not shieldable/shieldable

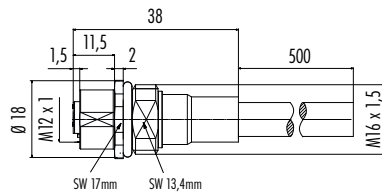
|   |   |                |                |
|---|---|----------------|----------------|
| 4 |   | 09 0432 600 04 | 09 0432 601 04 |
| 5 | - | 09 0434 600 05 | 09 0434 601 05 |
| 8 |   | 09 0484 600 08 | 09 0484 601 08 |

**NEW**



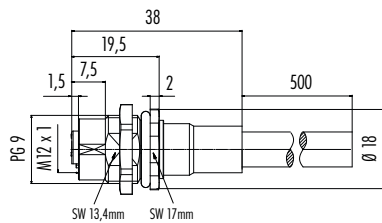
Female panel mount connector M16, with shielded PUR-cable

| Contacts | Cable length, PUR | Fixing thread | Ordering-No.   |
|----------|-------------------|---------------|----------------|
| 5        | 0,5 m             | M16 x 1,5     | 70 3442 785 05 |
| 8        |                   |               | 70 3482 785 08 |



Female panel mount connector PG 9, front fastened, with shielded PUR-cable

|   |       |      |                |
|---|-------|------|----------------|
| 5 | 0,5 m | PG 9 | 70 3442 287 05 |
| 8 |       |      | 70 3482 287 08 |

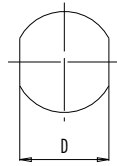


Hexagonal nut enclosed loose

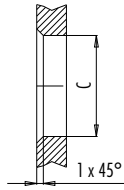
## Panel cut out

### Panel mount connector

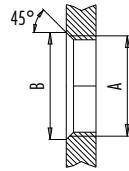
With flats as anti-rotation device



With bore hole



With thread to screw in



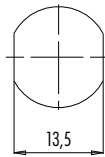
|         | A       | B    | C    | D    |
|---------|---------|------|------|------|
| PG 9    | PG 9    | 16,2 | 15,3 | 13,5 |
| PG 13,5 | PG 13,5 | 21,5 | 20,5 | —    |
| M16x1,5 | M16x1,5 | 17,0 | 16,1 | 13,5 |
| M20x1,5 | M20x1,5 | 21,0 | 20,1 | —    |

Tightening moment  
 Metal housing 6,25 Nm  
 Plastic housing 3,75 Nm

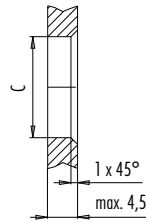
alternativ

### Panel mount connector, front fastened

With flats as anti-rotation device



With bore hole



|         | C    |
|---------|------|
| PG 9    | 15,3 |
| M16x1,5 | 16,1 |

Tightening moment  
 Metal housing 6,25 Nm  
 Plastic housing 3,75 Nm

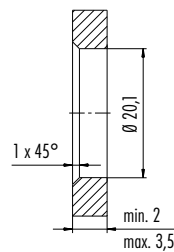
### Panel mount connector, positioning possible



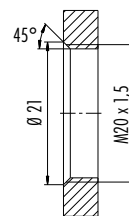
Tightening moment  
 Metal housing 6,25 Nm  
 Plastic housing 3,75 Nm

### Panel mount connector, screw clamp termination

With bore hole

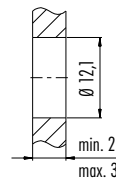


With thread to screw in



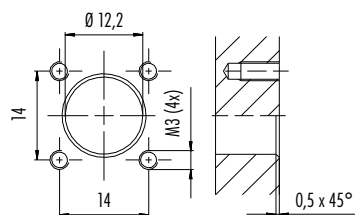
Tightening moment  
 M20 x 1,5 2 Nm

### Panel mount connector, with thread M12



Tightening moment  
 M12 x 1,5 6,25 Nm

### Panel mount connector, square flange



| Description | Drawing | Ordering-No. |
|-------------|---------|--------------|
|-------------|---------|--------------|

Protection cap for male cable connector, IP67

08 2424 010 000



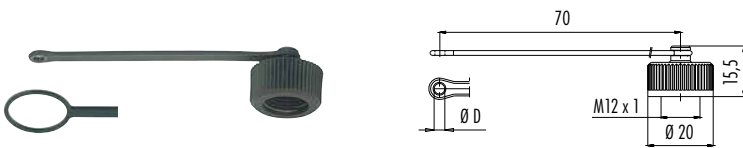
Protection cap for female cable connector, IP67

08 2425 010 000



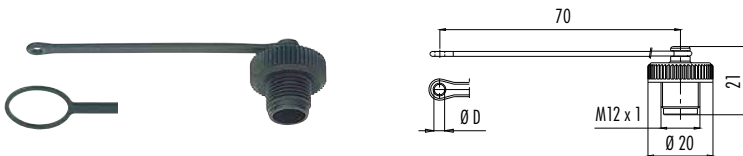
Protection cap for male panel mount connector, IP67

| Hole-Ø D | Ordering-No.    |
|----------|-----------------|
| 3 mm     | 08 2615 000 000 |
| 12,5 mm  | 08 2676 000 000 |



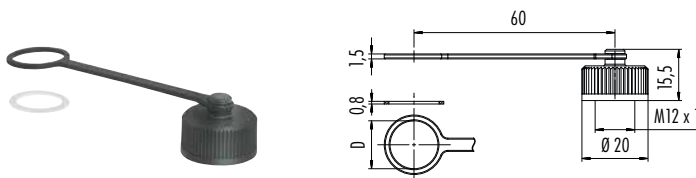
Protection cap for female panel mount connector, IP67

|         |                 |
|---------|-----------------|
| 3 mm    | 08 2616 000 000 |
| 12,5 mm | 08 2677 000 000 |



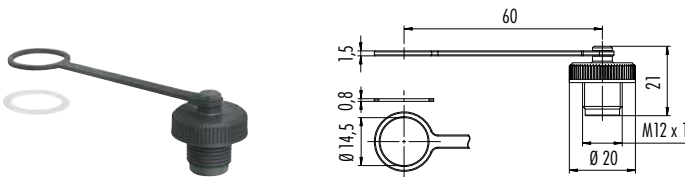
Protection cap for male panel mount connector, IP67, for front mounting

|         |                 |
|---------|-----------------|
| 11 mm   | 08 2989 000 000 |
| 14,5 mm | 08 2990 000 000 |



Protection cap for female panel mount connector, IP67, for front mounting

08 2991 000 000



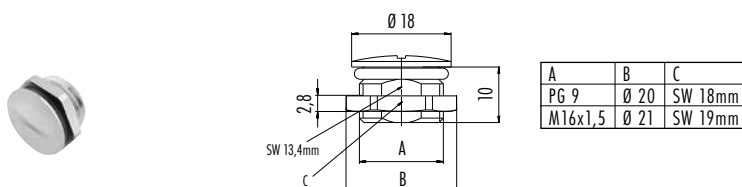
Protection cap for female connector, IP67

08 2769 000 000



Dummy plug PG 9/M16 x1,5

| Thread    | Ordering-No.    |
|-----------|-----------------|
| PG 9      | 08 3128 000 000 |
| M16 x 1,5 | 08 3129 000 000 |

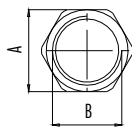


### Description

### Drawing

### Thread B Wrench size A Ordering-No.

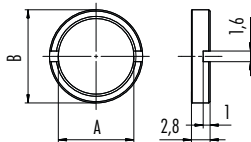
Hexagonal nut for fixing thread



| Gewinde B<br>Thread B | Schlüsselweite A<br>Wrench size A |
|-----------------------|-----------------------------------|
| PG 9                  | SW18 mm                           |
| PG 11                 | SW21 mm                           |
| PG 13,5               | SW23 mm                           |
| M16 x 1,5             | SW19 mm                           |
| M20 x 1,5             | SW24 mm                           |

|           |          |             |
|-----------|----------|-------------|
| PG 9      | SW 18 mm | 16 0402 001 |
| PG 11     | SW 21 mm | 16 0403 001 |
| PG 13,5   | SW 23 mm | 16 0401 001 |
| M16 x 1,5 | SW 19 mm | 16 0916 001 |
| M20 x 1,5 | SW 24 mm | 16 0917 001 |

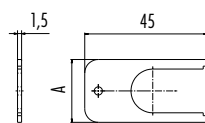
Ring nut for fixing thread



### Thread A Diameter B Ordering-No.

|           |       |             |
|-----------|-------|-------------|
| PG 9      | 18 mm | 01 5322 001 |
| M12 x 1   | 14 mm | 01 5325 001 |
| M16 x 1,5 | 18 mm | 01 5244 001 |

Mounting spanner for ring nut

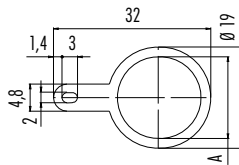


| Gewinde/thread | A  |
|----------------|----|
| PG 9/M16x1,5   | 23 |
| M12x1          | 19 |

### Thread Measure A Ordering-No.

|                |       |             |
|----------------|-------|-------------|
| PG 9/M16 x 1,5 | 23 mm | 07 0084 000 |
| M12 x 1        | 19 mm | 07 0083 000 |

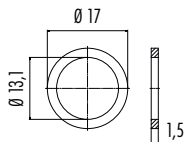
Shielding sheet for panel mount connector, fastened from back side



### Thread Measure A Ordering-No.

|           |         |             |
|-----------|---------|-------------|
| PG 9      | 15,3 mm | 04 0734 124 |
| M16 x 1,5 | 16,1 mm | 04 0735 124 |

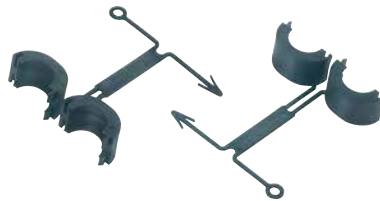
Flat seal for fixing thread PG 9/M16 x 1,5



### Ordering-No.

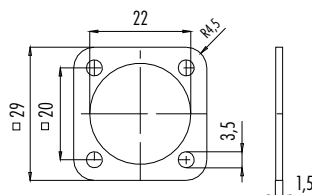
16 1125 071

Sleeve against inadvertent unmating under load



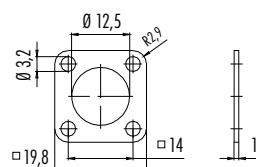
16 0977 000

Seal for plastic rectangular flange connector



16 8091 000

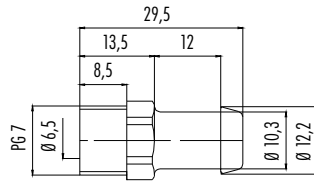
Seal for metal rectangular flange connector



16 0959 000

| Description | Drawing | Ordering-No. |
|-------------|---------|--------------|
|-------------|---------|--------------|

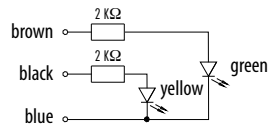
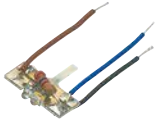
Screwing for tube



02 0273 000

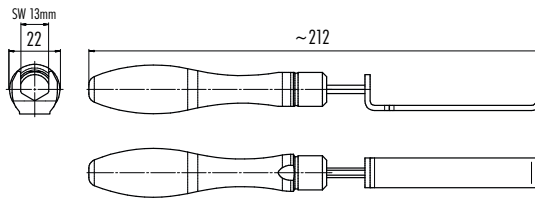
PCB with one LED green/yellow, for mounting in cable connectors, screw termination

08 0462 000 000



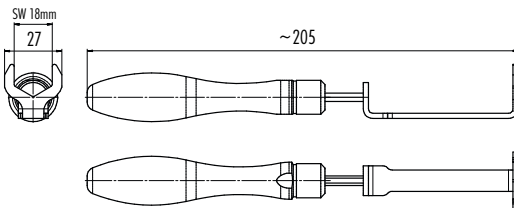
Hexagon torque spanner SW 13 mm, 0,6 Nm

07 0086 000



Hexagon torque spanner SW 18 mm, 0,6 Nm

07 0079 000



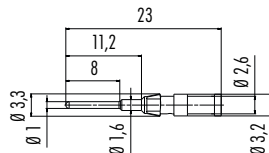
Mounting tool for M12 locking ring

07 0078 000



Male contact, PU = 100 pieces

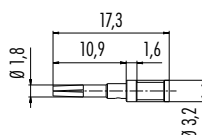
| Wire gauge                  | AWG   | Pieces | Ordering-No. |
|-----------------------------|-------|--------|--------------|
| 0,14 – 0,34 mm <sup>2</sup> | 26–22 | 100    | 61 1224 146  |
| 0,34 – 0,5 mm <sup>2</sup>  | 22–20 | 100    | 61 1154 146  |
| 0,75 – 1,0 mm <sup>2</sup>  | 18–16 | 100    | 61 1225 146  |
| 1,0 – 1,5 mm <sup>2</sup>   | 16    | 100    | 61 1226 146  |



**NEW**

Female contact, PU = 100 pieces

|                             |       |     |             |
|-----------------------------|-------|-----|-------------|
| 0,14 – 0,34 mm <sup>2</sup> | 26–22 | 100 | 61 1227 146 |
| 0,34 – 0,5 mm <sup>2</sup>  | 22–20 | 100 | 61 1155 146 |
| 0,75 – 1,0 mm <sup>2</sup>  | 18–16 | 100 | 61 1228 146 |
| 1,0 – 1,5 mm <sup>2</sup>   | 16    | 100 | 61 1229 146 |



**NEW**

---

**Description****Drawing****Ordering-No.**

Crimping tool for turned crimp contacts

66 0003 001

---



Extraction tool for turned crimp contacts

66 0004 001

---

