

Connection technology

Sub-D connection technology Connectors, self-assembly

| 9 pin | | | Order no. |
|--|--|---|--------------------------------|
| <p>Male connector with cable outlet 70°</p> <p>Housing: ABS, metallized, IP20</p> | <p>solder contacts, for cable \varnothing 3.5 ... 8.6 mm [0.14 ... 0.34"]</p> | <p>suitable for our series:</p> <p>SMC1, SMC2</p> | <p>8.0000.514A.0000</p> |
| | | | |
| <p>Female connector with cable outlet 70°</p> <p>Housing: ABS, metallized, IP20</p> | <p>solder contacts, for cable \varnothing 3.5 ... 8.6 mm [0.14 ... 0.34"]</p> | <p>suitable for our series:</p> <p>SMC1, SMC2</p> | <p>8.0000.514B.0000</p> |
| | | | |

Connection technology

Connection technology

Sub-D connection technology Cordsets, pre-assembled

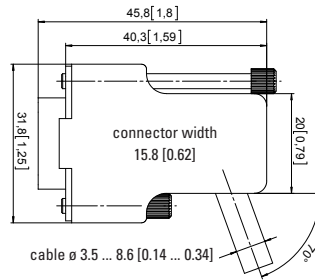
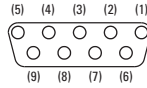
With Sub-D connector

Working temp. -30°C ... +80°C [-22°F ... +176°F]

Order no.

Sub-D female connector, 9-pin with cable outlet 70° + single-ended

Cable: PVC, 3 x 2 x 0.25 mm² [AWG 23]
Housing: ABS, metallized, IP20



suitable for our series:

SMC1, SMC2

Terminal assignment

| Signal: | 0 V | +V | A | \bar{A} | B | \bar{B} | PH ²⁾ |
|--------------|-----|----|----|-----------|----|-----------|------------------|
| Pin Sub-D: | 5 | 4 | 1 | 9 | 3 | 2 | ⊥ |
| Core colour: | WH | BN | GN | YE | GY | PK | ⊥ |

Terminal X6, X7
for SinCos signals

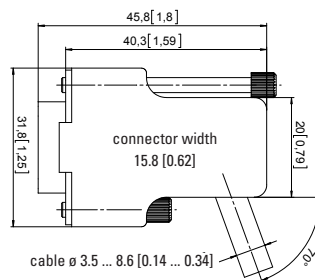
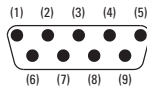
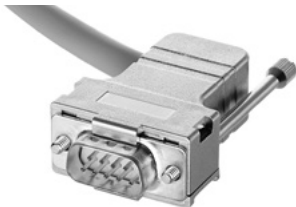
cable length ¹⁾

2 m [6.56']
5 m [16.40']
10 m [32.81']
15 m [49.21']

8.0000.6V00.0002.0086
8.0000.6V00.0005.0086
8.0000.6V00.0010.0086
8.0000.6V00.0015.0086

Sub-D male connector, 9-pin with cable outlet 70° + single-ended

Cable: PVC, 3 x 2 x 0.25 mm² [AWG 23]
Housing: ABS, metallized, IP20



suitable for our series:

SMC1, SMC2

Terminal assignment

| Signal: | 0 V | +V | A | \bar{A} | B | \bar{B} | PH ²⁾ |
|--------------|-----|----|----|-----------|----|-----------|------------------|
| Pin Sub-D: | 5 | 4 | 1 | 9 | 3 | 2 | ⊥ |
| Core colour: | WH | BN | GN | YE | GY | PK | ⊥ |

Terminal X5
for SinCos signals

cable length ¹⁾

2 m [6.56']
5 m [16.40']
10 m [32.81']
15 m [49.21']

8.0000.6V00.0002.0087
8.0000.6V00.0005.0087
8.0000.6V00.0010.0087
8.0000.6V00.0015.0087

- +V: encoder power supply +V DC
- 0 V: encoder power supply ground GND (0 V)
- A, \bar{A} : cosine signal
- B, \bar{B} : sine signal
- PH ⊥: plug connector housing (shield)

1) Other cable lengths on request.
2) Shield on housing.

Connection technology

Sub-D connection technology Cordsets, pre-assembled

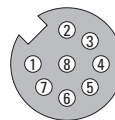
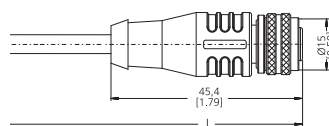
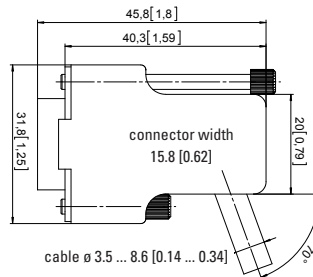
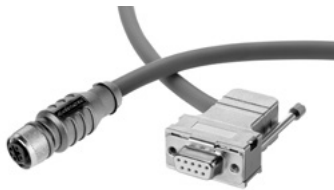
With Sub-D connector + M12 connector Working temp. -30°C ... +80°C [-22°F ... +176°F] Order no.

**Sub-D female connector, 9 pin, cable outlet 70°
+ M12 female connector with coupling nut,
8 pin, A coded**

Cable: PVC, 3 x 2 x 0.25 mm² [AWG 23]
Housing Sub-D: ABS, metalized, IP20
Housing M12: metal / plastic, IP67

suitable for our series:

5000 / 5020 5006 / 5026
5814 / 5834 5814FSx / 5834FSx
5821
SMC1, SMC2



Terminal assignment

| | | | | | | | |
|---|---|---|---|---|---|---|------------------|
| Pin Sub-D: | 5 | 4 | 1 | 9 | 3 | 2 | PH ²⁾ |
| Pin M12: | 1 | 2 | 3 | 4 | 5 | 6 | PH ²⁾ |
| pins arranged below each other are connected internally | | | | | | | |

for terminal X6, X7
at SMC1, SMC2

cable length ¹⁾

2 m [6.56']
5 m [16.40']
10 m [32.81']
15 m [49.21']

8.0000.6V00.0002.0084
8.0000.6V00.0005.0084
8.0000.6V00.0010.0084
8.0000.6V00.0015.0084

Connection technology

1) Other cable lengths on request.
2) Shield on housing.

Sub-D connection technology Cordsets, pre-assembled

With Sub-D connector + M23 connector

Working temp. -30°C ... +80°C [-22°F ... +176°F]

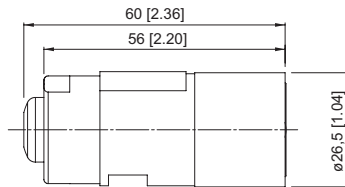
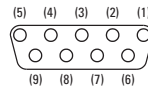
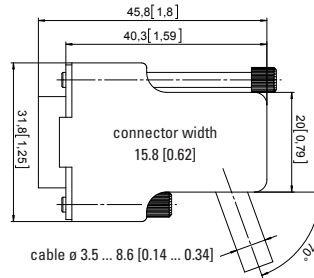
Order no.

**Sub-D female connector, 9-pin, cable outlet 70°
+ M23 female connector with coupling nut,
12 pin**

Cable: PVC, 3 x 2 x 0.25 mm² [AWG 23]
Housing Sub-D: ABS, metalized, IP20
Housing M23: metal, IP67

suitable for our series:

5000 / 5020 5006 / 5026
5814 / 5834 5814FSx / 5834FSx
5821
SMC1, SMC2



pin socket
assignment cw

Terminal assignment

| | | | | | | | |
|---|----|----|---|---|---|---|------------------|
| Pin Sub-D: | 5 | 4 | 1 | 9 | 3 | 2 | PH ²⁾ |
| Pin M23: | 10 | 12 | 5 | 6 | 8 | 1 | PH ²⁾ |
| pins arranged below each other are connected internally | | | | | | | |

for terminal X6, X7
at SMC1, SMC2

cable length ¹⁾

2 m [6.56']
5 m [16.40']
10 m [32.81']
15 m [49.21']

8.0000.6V00.0002.0085
8.0000.6V00.0005.0085
8.0000.6V00.0010.0085
8.0000.6V00.0015.0085

1) Other cable lengths on request.
2) Shield on housing.

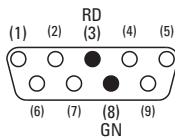
Connection technology

Sub-D connection technology Cordsets, pre-assembled

With Sub-D connector Working temp. -30°C ... +80°C [-22°F ... +176°F] Order no.

Sub-D female connector, cable outlet 90° + single-ended
Profibus master with terminating resistor

Cable: PUR, 2 x 0.34 mm² [AWG22]
 Housing: metal / plastic



suitable for our series:

5858 / 5878
 5868 / 5888
 9080
 SMBU.031
 SMBS.S31



Terminal assignment

| | | | | | | | | | | |
|-------------|---|---|----|---|---|---|---|----|---|------------------|
| Pin Sub-D: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | PH ²⁾ |
| Core color: | - | - | RD | - | - | - | - | GN | - | |

cable length ¹⁾

| | |
|---------------|-----------------------------|
| 2 m [6.56'] | 05.00.6011.5511.002M |
| 5 m [16.40'] | 05.00.6011.5511.005M |
| 10 m [32.81'] | 05.00.6011.5511.010M |
| 15 m [49.21'] | 05.00.6011.5511.015M |

1) Other cable lengths on request.
 2) Shield on housing.

Connection technology

Sub-D connection technology Cordsets, pre-assembled

With Sub-D connector + M12 connector

Working temp. -30°C ... +80°C [-22°F ... +176°F]

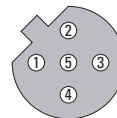
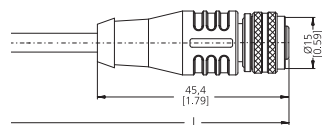
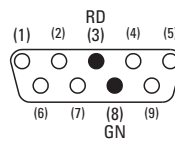
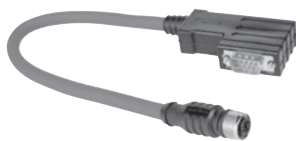
Order no.

Sub-D male connector, 9 pin, cable outlet 90° Bus in
Profibus master with terminating resistor + M12 female connector with coupling nut, 5 pin, B coded

Cable: PUR, 2 x 0.34 mm² [AWG22]
 Housing Sub-D: ABS, metalized
 Housing M12: metal / plastic

suitable for our series:

5858 / 5878
 5868 / 5888
 9080



Terminal assignment

cable length ¹⁾

| | | | | | | |
|---|---|---|---|---|---|------------------|
| Pin Sub-D: | | 3 | | 8 | | PH ²⁾ |
| Pin M12: | 1 | 2 | 3 | 4 | 5 | PH ²⁾ |
| pins arranged below each other are connected internally | | | | | | |

2 m [6.56']

5 m [16.40']

10 m [32.81']

15 m [49.21']

05.00.6011.5532.002M

05.00.6011.5532.005M

05.00.6011.5532.010M

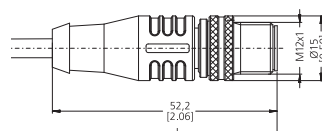
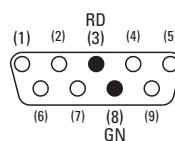
05.00.6011.5532.015M

Sub-D male connector, 9 pin, cable outlet 90° Bus out
Profibus master with terminating resistor + M12 male connector with external thread, 5 pin, B coded

Cable: PUR, 2 x 0.34 mm² [AWG22]
 Housing Sub-D: ABS, metalized
 Housing M12: metal / plastic

suitable for our series:

5858 / 5878
 5868 / 5888
 9080



Terminal assignment

cable length ¹⁾

| | | | | | | |
|---|---|---|---|---|---|------------------|
| Pin Sub-D: | | 8 | | 3 | | PH ²⁾ |
| Pin M12: | 1 | 2 | 3 | 4 | 5 | PH ²⁾ |
| pins arranged below each other are connected internally | | | | | | |

2 m [6.56']

5 m [16.40']

10 m [32.81']

15 m [49.21']

05.00.6011.5534.002M

05.00.6011.5534.005M

05.00.6011.5534.010M

05.00.6011.5534.015M

1) Other cable lengths on request.
 2) Shield on housing.

Connection technology

Sub-D connection technology Cordsets, pre-assembled

With Sub-D connector + M12 connector Working temp. -30°C ... +80°C [-22°F ... +176°F] Order no.

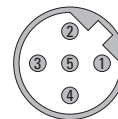
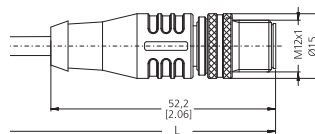
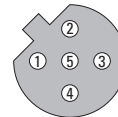
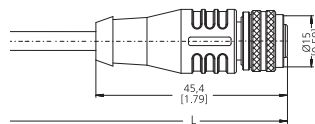
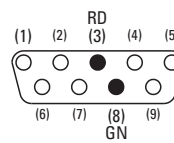
**Sub-D male connector, 9 pin, cable outlet 90°
Profibus master with terminating resistor +
M12 male connector with external thread and
M12 female connector with coupling nut,
5 pin, B coded**

Bus in, Bus out

suitable for our series:

Cable: PUR, 2 x 0.34 mm² [AWG22]
Housing Sub-D: ABS, metalized
Housing M12: metal / plastic

5858 / 5878
5868 / 5888
9080



Terminal assignment

| | | | | | | |
|---|---|---|---|---|---|------------------|
| Pin Sub-D: | | 8 | | 3 | | PH ²⁾ |
| Pin M12 female contacts: | 1 | 2 | 3 | 4 | 5 | PH ²⁾ |
| Pin M12 male contacts: | 1 | 2 | 3 | 4 | 5 | PH ²⁾ |
| pins arranged below each other are connected internally | | | | | | |

cable length¹⁾

| | |
|-------------------|-----------------------------|
| 2 x 2 m [6.56'] | 05.00.6012.5536.002M |
| 2 x 5 m [16.40'] | 05.00.6012.5536.005M |
| 2 x 10 m [32.81'] | 05.00.6012.5536.010M |
| 2 x 15 m [49.21'] | 05.00.6012.5536.015M |

1) Other cable lengths on request.
2) Shield on housing.