

Series BDC

- B-design
- Bus coupler with driver
- Field bus protocol PROFIBUS DP, CANopen, CANopen sb, DeviceNet, EtherCAT, sercos III



Version	Bus coupler with driver
Ambient temperature min./max.	0 ... 50 °C
Operational voltage electronics	24 V DC
Electronics voltage tolerance	-15% / +20%
Power consumption electronics	0,05 A
Operating voltage, actuators	24 V DC
Total current for actuators	3 A
Protection class	IP65
Number of solenoid coils,max.	32
Max. power consumption per coil	0,1 mA
Generic emission standard in accordance with norm	EN 61000-6-4
Generic immunity standard in accordance with norm	IEC 61000-6-2
Weight	0,29 kg

Technical data

Part No.	Field bus protocol	Port
		1
R412008537	PROFIBUS DP	Plug (male), M12x1, 5-pin, B-coded
R412008538	CANopen	Plug (male), M12x1, 5-pin, A-coded
R412008990	CANopen sb	Plug (male), M12x1, 5-pin, A-coded
R412008539	DeviceNet	Plug (male), M12x1, 5-pin, A-coded
R412009573	EtherCAT	Socket (female), M12x1, 5-pin, D-coded
R412009516	sercos III	Socket (female), M12x1, 5-pin, D-coded

Part No.	Port	power supply
	2	
R412008537	Socket (female), M12x1, 5-pin, B-coded	Plug (male), M12, 4-pin, A-coded
R412008538	Socket (female), M12x1, 5-pin, A-coded	Plug (male), M12, 4-pin, A-coded
R412008990	Socket (female), M12x1, 5-pin, A-coded	Plug (male), M12, 4-pin, A-coded
R412008539	Socket (female), M12x1, 5-pin, A-coded	Plug (male), M12, 4-pin, A-coded
R412009573	Socket (female), M12x1, 5-pin, D-coded	Plug (male), M12, 4-pin, A-coded
R412009516	Socket (female), M12x1, 5-pin, D-coded	Plug (male), M12, 4-pin, A-coded

Scope of delivery incl. 2 screws and seal, The following operating instructions can be found in the Media Center for:→PROFIBUS DP: R412009414→CANopen /-sb: R412009415→DeviceNet: R412009416→EtherCAT: R412012792→sercos III: R412012610

Technical information

Max. number of valves: 16 double solenoid or 32 single solenoid

You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

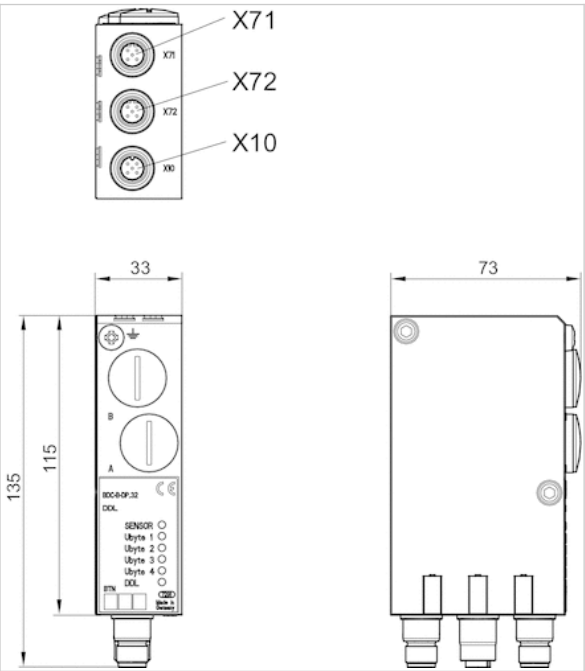
Caution: A reduced temperature range in accordance with the operating instructions may need to be considered in ATEX applications.

Technical information

Material	
Housing	Die-cast aluminum

Dimensions

Dimensions



X71 = Bus IN
 X72 = Bus OUT
 X10 = power supply

Series AS-i, B-design

- B-design
- Bus coupler with driver
- Yellow AS-i flat cable
- Field bus protocol AS-i



Version	Bus coupler with driver
Ambient temperature min./max.	0 ... 50 °C
Operating voltage, actuators	24 V DC
Protection class	IP65
Max. power consumption per coil	0,03 mA
Port, Valve system	Socket, 2.0 mm strip, 2x13-pin
ID Code / ID2 Code	F / E
I/O Code	8
Generic emission standard in accordance with norm	EN 50295
Generic immunity standard in accordance with norm	EN 50295
Weight	0,14 kg
The delivered product may vary from that in the illustration.	

Technical data

Part No.	Field bus protocol	Port	power supply
		1	
R412003488	AS-i	Yellow AS-i flat cable	Black AS-i flat cable
R412006761	AS-i	Yellow AS-i flat cable	Black AS-i flat cable

Part No.	Number of outputs for valve coils	Power consumption electronics	Fig.
R412003488	4	0,05 A	Fig. 1
R412006761	8	0,08 A	Fig. 2

Scope of delivery incl. seal and mounting screws, The following operating instructions can be found in the Media Center for: AS-i: R499050017

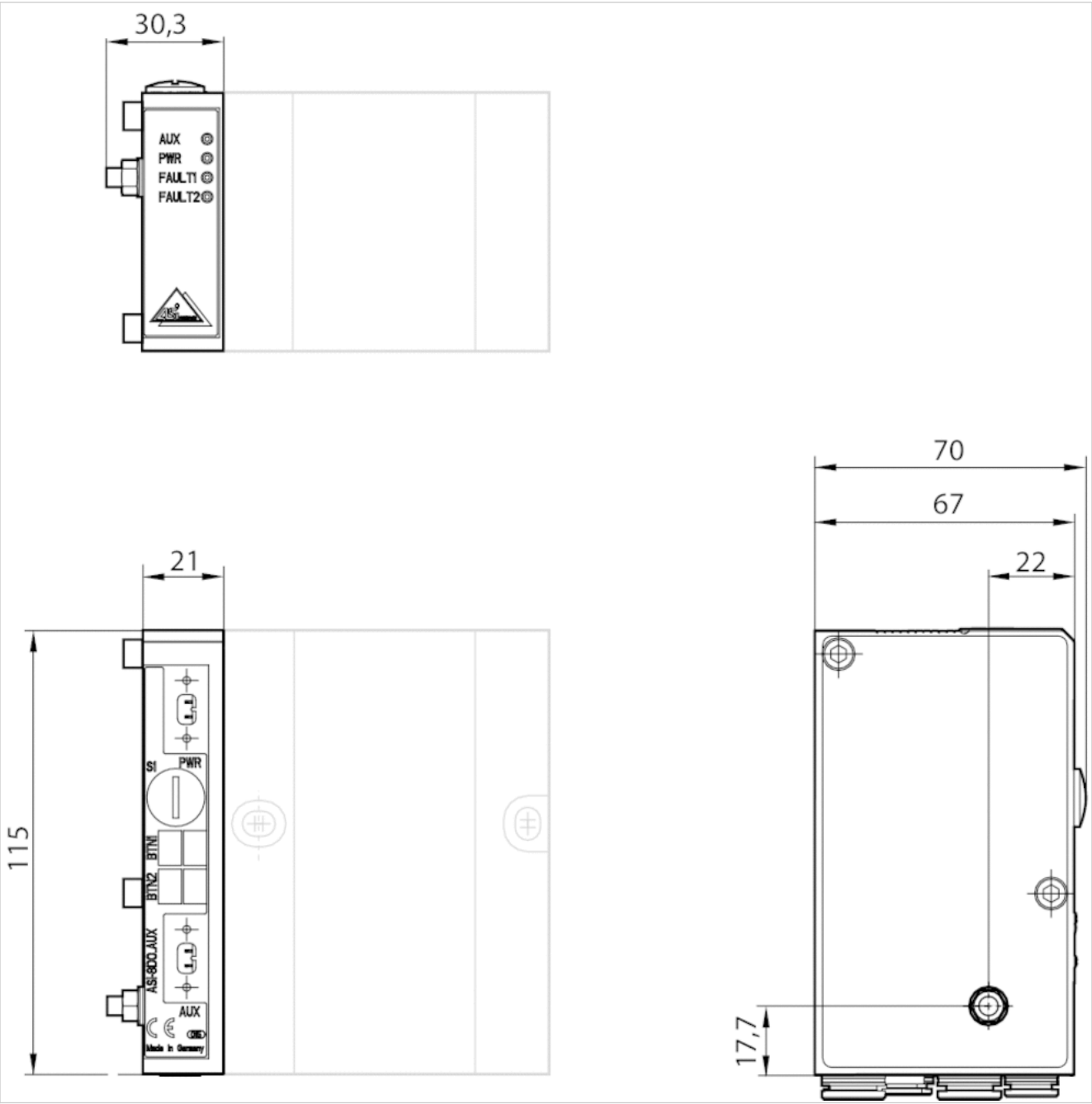
Technical information

Caution: A reduced temperature range in accordance with the operating instructions may need to be considered in ATEX applications. You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Technical information

Material	
Housing	Aluminum, Die-cast aluminum

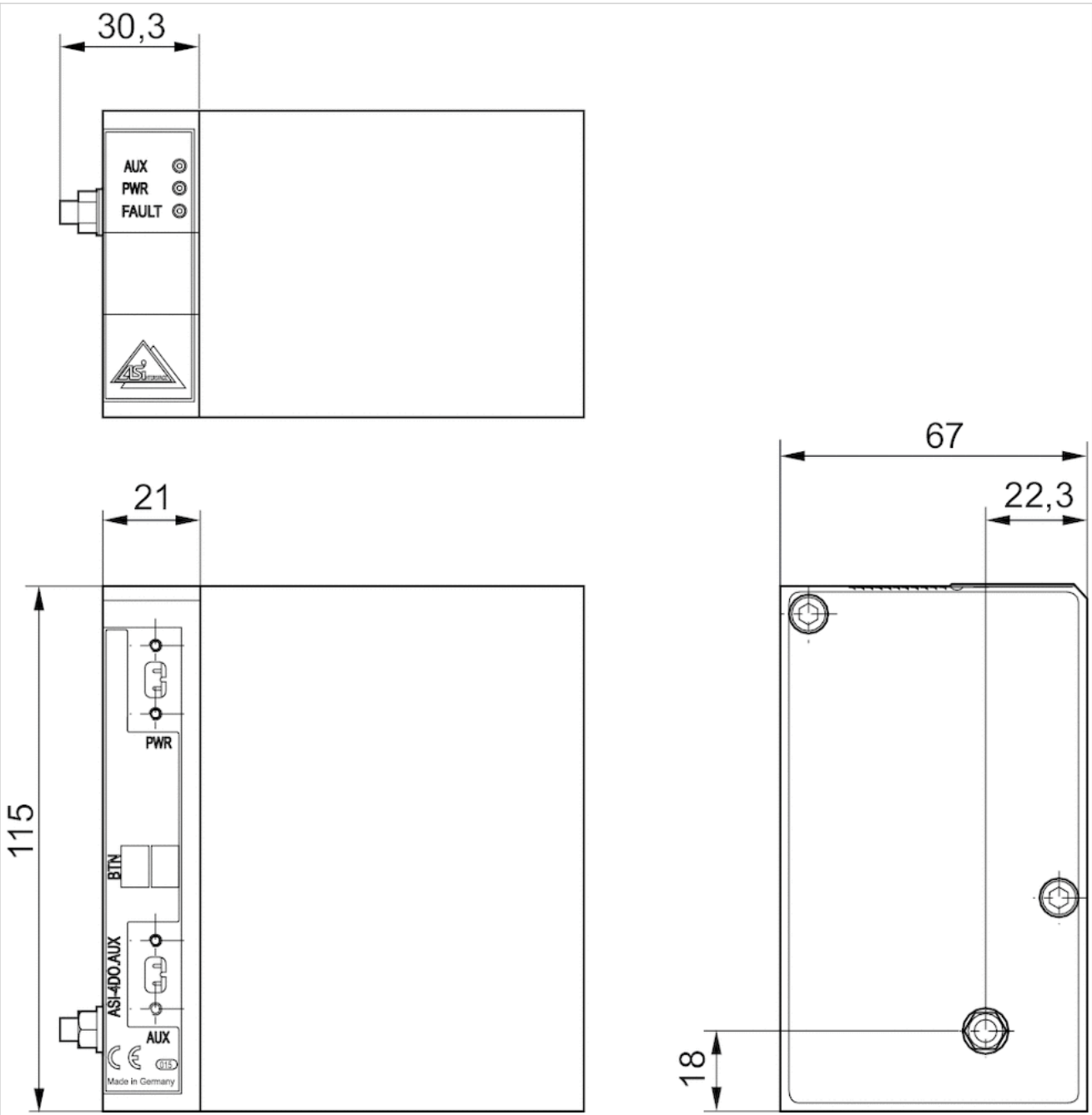
Fig. 2



AS-i, 8DO-AUX

Dimensions

Fig. 1



AS-i, 4DO-AUX

Series AS-i, B-design

- B-design
- Bus coupler with driver
- Yellow AS-i flat cable
- Field bus protocol AS i with inputs



Version	Bus coupler with driver
Ambient temperature min./max.	0 ... 50 °C
Operating voltage, actuators	24 V DC
Protection class	IP65
Max. power consumption per coil	0,03 mA
Port, Valve system	Socket, 2.0 mm strip, 2x13-pin
ID Code / ID2 Code	F / E
I/O connection	input or output, Socket, M8
I/O Code	7
Generic emission standard in accordance with norm	EN 50295
Generic immunity standard in accordance with norm	EN 50295

The delivered product may vary from that in the illustration.

Technical data

Part No.	Field bus protocol	Port	power supply	Number of inputs
		1		
R412003486	AS i with inputs	Yellow AS-i flat cable	Black AS-i flat cable	8
R412003487	AS i with inputs	Yellow AS-i flat cable	Black AS-i flat cable	4

Part No.	Number of outputs for valve coils	I/O connection	I/O connection
			Number
R412003486	8	input or output, Socket, M8	8
R412003487	4	input or output, Socket, M8	4

Part No.	Power consumption electronics	Fig.
R412003486	0,1 A	Fig. 2
R412003487	0,05 A	Fig. 1

Scope of delivery incl. 2 tie rod extensions and seal, The following operating instructions can be found in the Media Center for: AS-i: R499050017

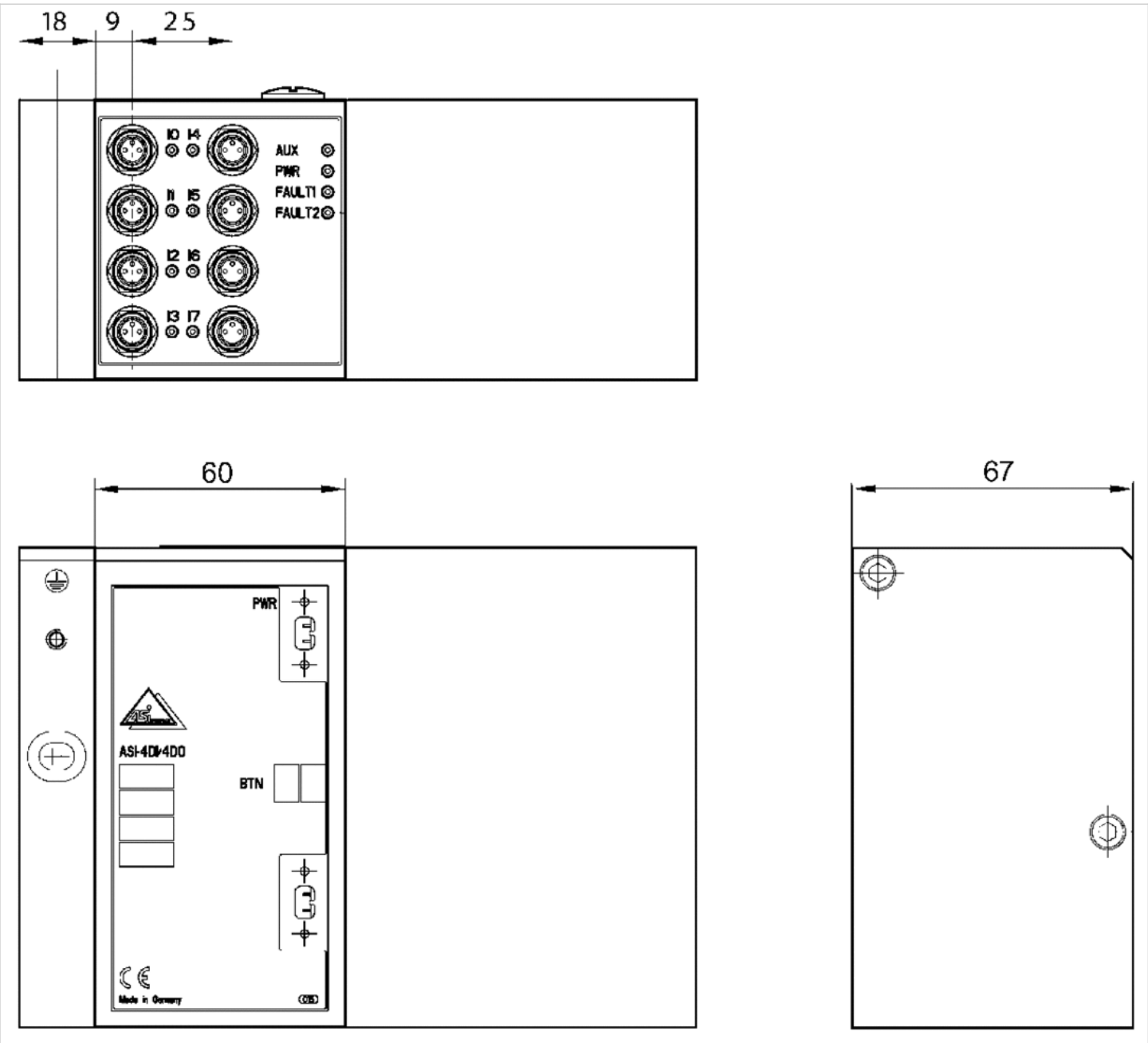
Technical information

Caution: A reduced temperature range in accordance with the operating instructions may need to be considered in ATEX applications. You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Technical information

Material	
Housing	Aluminum

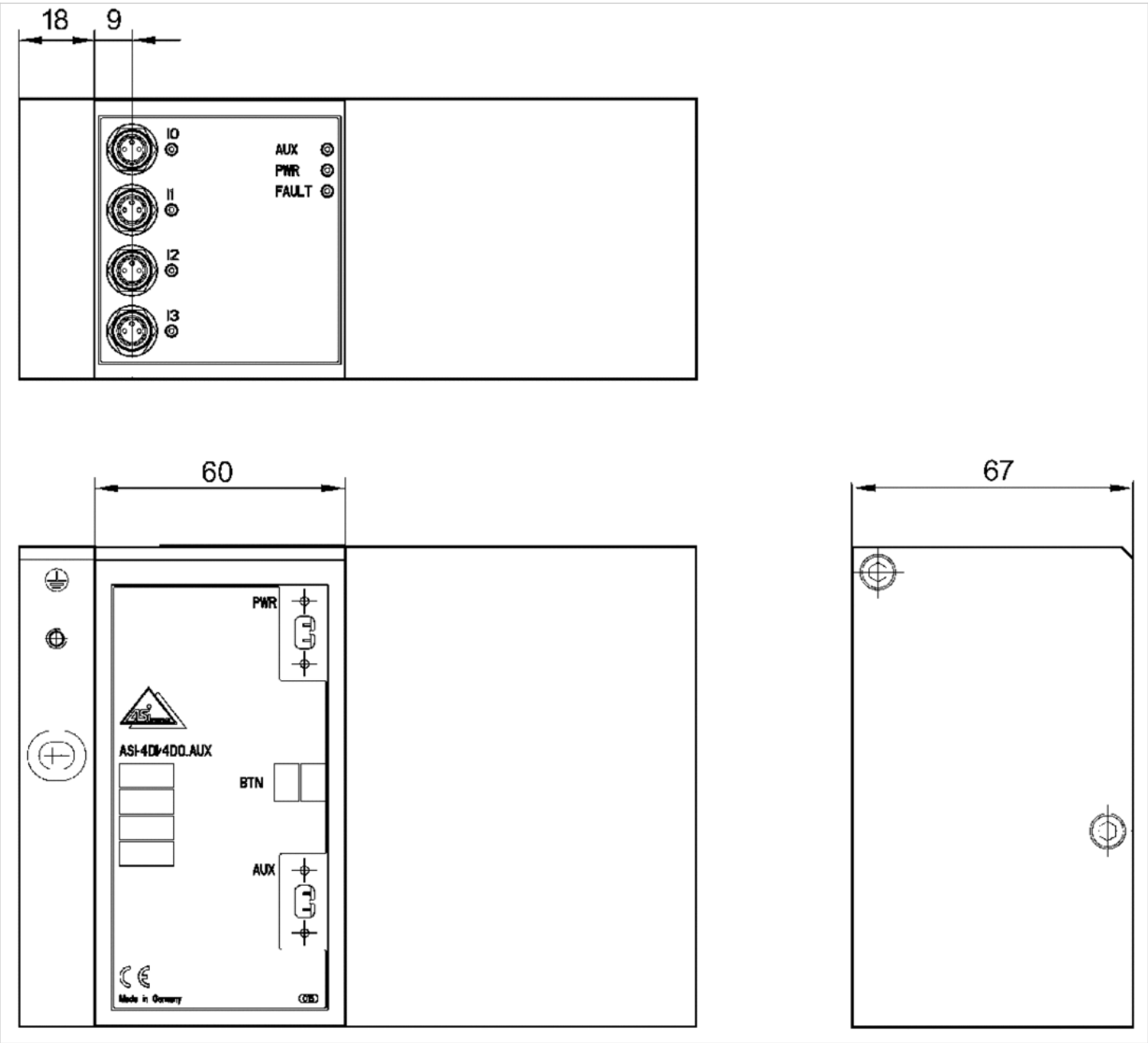
Fig. 2



8DI/8DO-AUX

Dimensions

Fig. 1



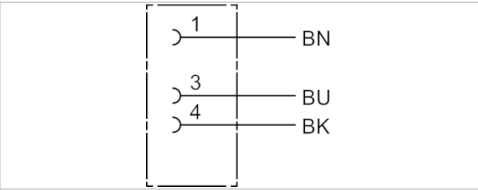
4DI/4DO-AUX

Round plug connector, Series CON-RD

- Plug, M8x1, 3-pin, A-coded, angled, 90°
- open cable ends
- with cable
- suitable for dynamic laying
- unshielded



Ambient temperature min./max.	-25 ... 80 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP68
Wire cross-section	0,25 mm²
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length	Weight
R412021678	4 A	3	41 mm	4,1 mm	2 m	0,06 kg
R412021679	4 A	3	41 mm	4,1 mm	5 m	0,121 kg
R412021680	4 A	3	41 mm	4,1 mm	10 m	0,224 kg

suitable for dynamic laying

Technical information

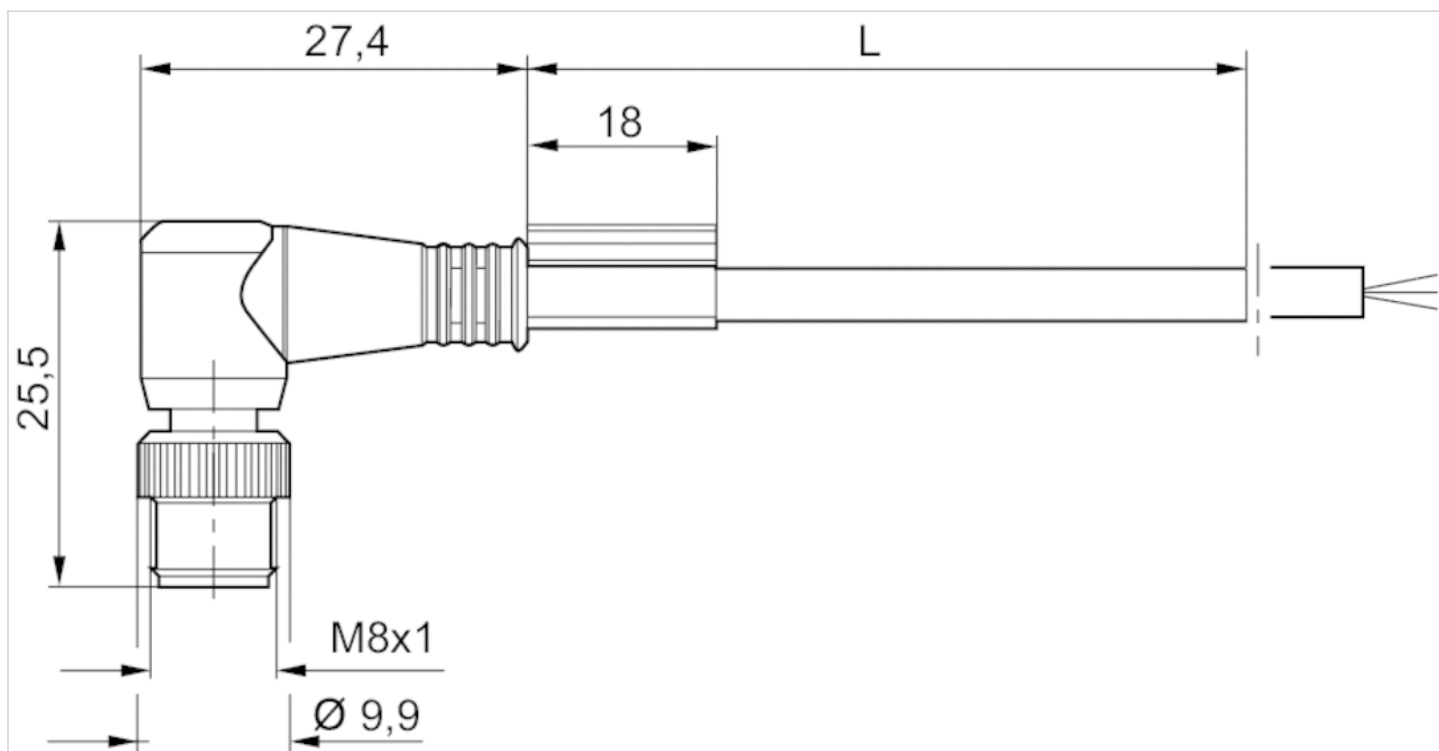
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

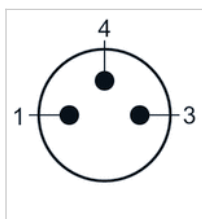
Dimensions



L = length

Pin assignments

Plug pin assignment



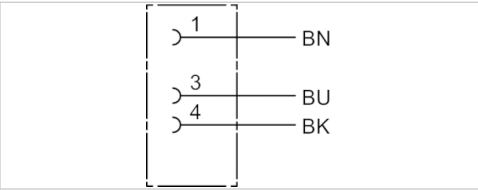
(1) BN=brown(3) BU=blue(4) BK=black

Round plug connector, Series CON-RD

- Socket, M8x1, 3-pin, A-coded, straight, 180°
- Plug, A-coded, angled, 90°
- with cable
- suitable for dynamic laying
- unshielded



Ambient temperature min./max.	-25 ... 80 °C
Operational voltage	48 V, AC/DC
Protection class	IP68
Wire cross-section	0,25 mm²
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length	Weight
R412021681	4 A	3	41 mm	4,1 mm	1 m	0,045 kg
R412021682	4 A	3	41 mm	4,1 mm	2 m	0,064 kg
R412021683	4 A	3	41 mm	4,1 mm	5 m	0,131 kg

suitable for dynamic laying

Technical information

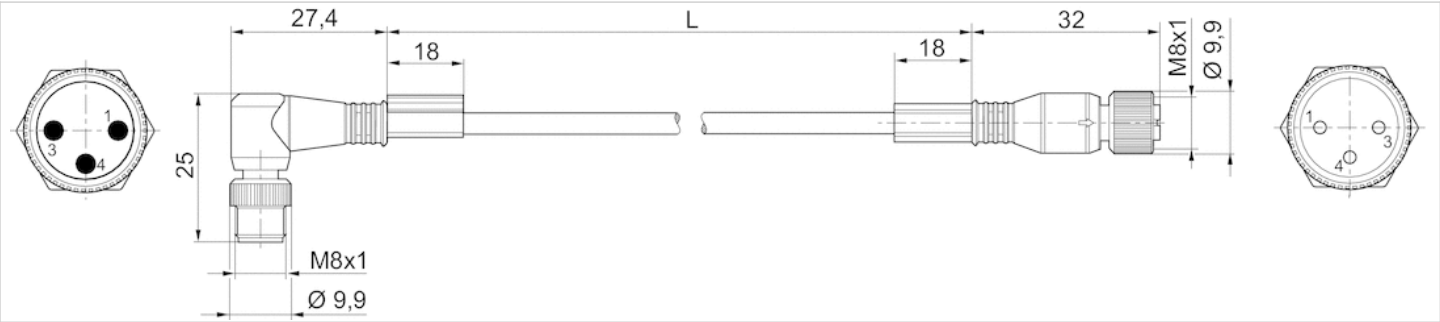
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

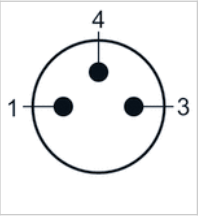
Dimensions

Dimensions



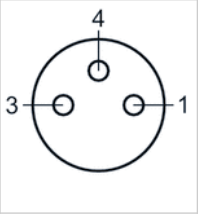
L = length

Plug pin assignment



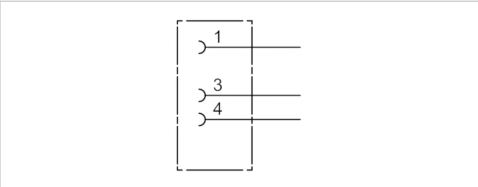
Pin assignments

Pin assignment socket



Round plug connector, Series CON-RD

- Plug, M8x1, 3-pin, A-coded, angled, 90°
- unshielded



Connection type	Screws
Ambient temperature min./max.	-25 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,01 kg
The delivered product may vary from that in the illustration.	

Technical data

Part No.	Max. current	Contact assignment	suitable cable-Ø min./max
R412021677	4 A	3	3,5 / 6 mm

Technical information

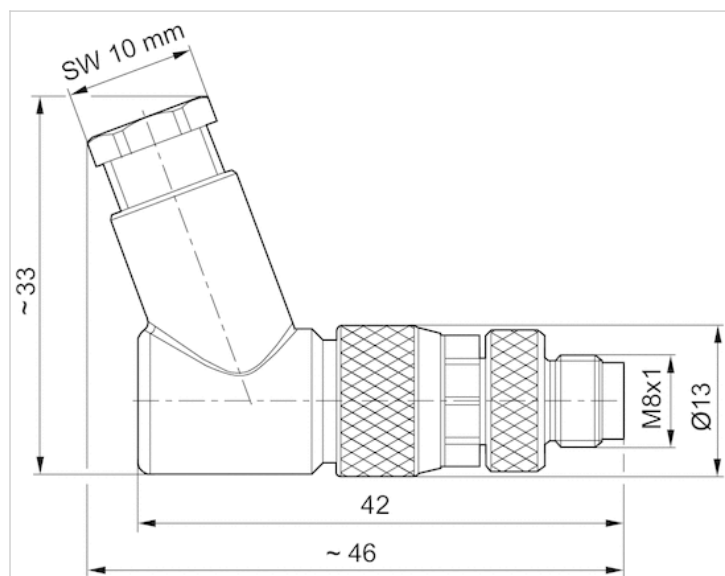
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

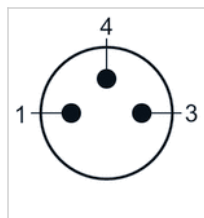
Dimensions

Dimensions



Pin assignments

Plug pin assignment

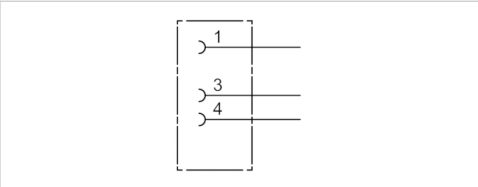


Round plug connector, Series CON-RD

- Plug, M8x1, 3-pin, A-coded, straight, 180°
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,01 kg



Technical data

Part No.	Max. current	Contact assignment	suitable cable-Ø min./max
R412021676	4 A	3	3,5 / 5 mm

Technical information

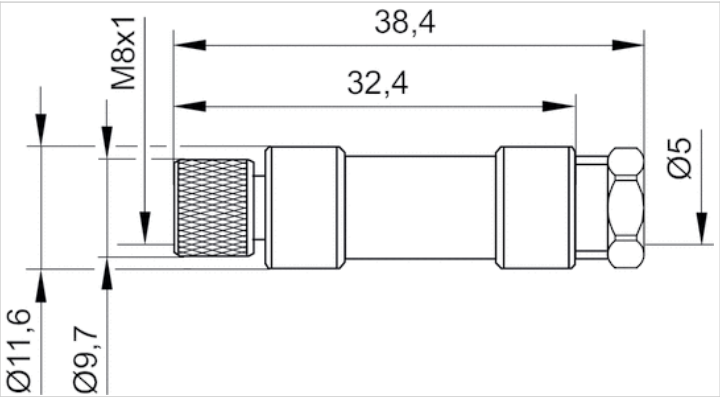
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

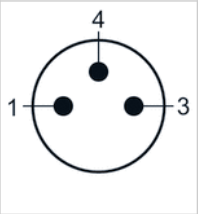
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M8x1, 3-pin, A-coded, straight, 180°
- open cable ends
- with cable
- unshielded



Ambient temperature min./max.	-25 ... 80 °C
Operational voltage	30 V, AC/DC
Protection class	IP67
Wire cross-section	0,25 mm ²
Weight	See table below

Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
8946203602	3 A	3	4,5 mm	3 m	0,06 kg
8946203612	3 A	3	4,5 mm	5 m	0,143 kg
8946203622	3 A	3	4,5 mm	10 m	0,281 kg

Technical information

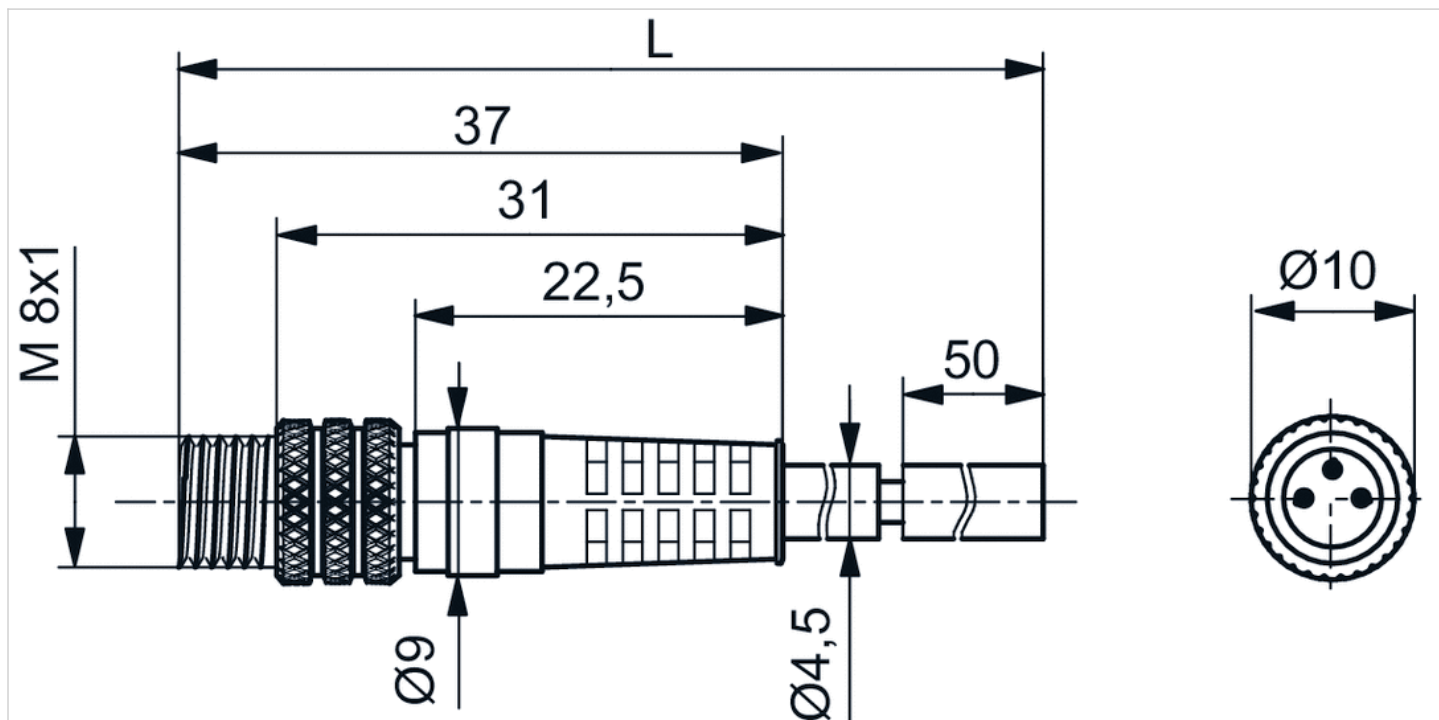
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyvinyl chloride

Dimensions

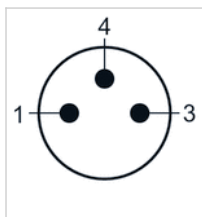
Dimensions



L = length

Pin assignments

Plug pin assignment



(1) BN=brown(3) BU=blue(4) BK=black

Adapter, Series CON-AP

- Socket, M12x1, 3-pin, A-coded, straight, 180°
- Plug, M8x1, A-coded, straight, 180°
- unshielded



Ambient temperature min./max.	-25 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,013 kg

Technical data

Part No.	Max. current	Contact assignment
R412021684	4 A	3

Technical information

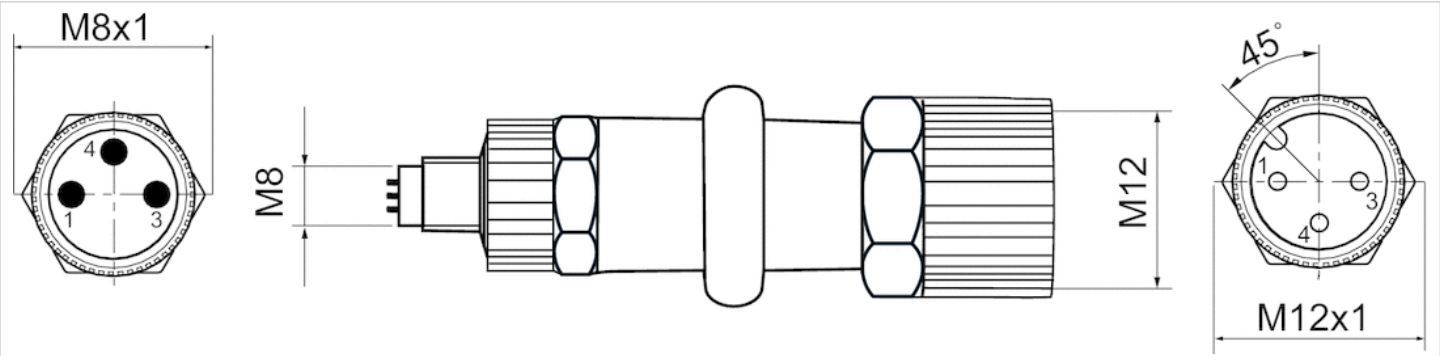
The specified protection class is only valid in assembled and tested state.

Technical information

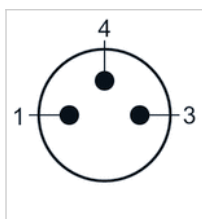
Material	
Housing	Polyurethane

Dimensions

Dimensions

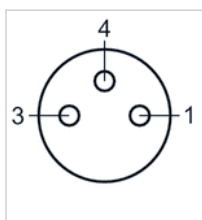


Plug pin assignment



Pin assignments

Pin assignment socket



Round plug connector, Series CON-RD

- Socket, M8x1, 3-pin, A-coded, straight, 180°
- Plug, A-coded, straight, 180°
- with cable
- unshielded



Protection class
Weight

IP68
See table below

Technical data

Part No.	Number of wires	Cable-Ø	Cable length	Weight
8946203702	3	4,5 mm	1 m	0,038 kg
8946203712	3	4,5 mm	2 m	0,067 kg
8946203722	3	4,5 mm	5 m	0,148 kg

Technical information

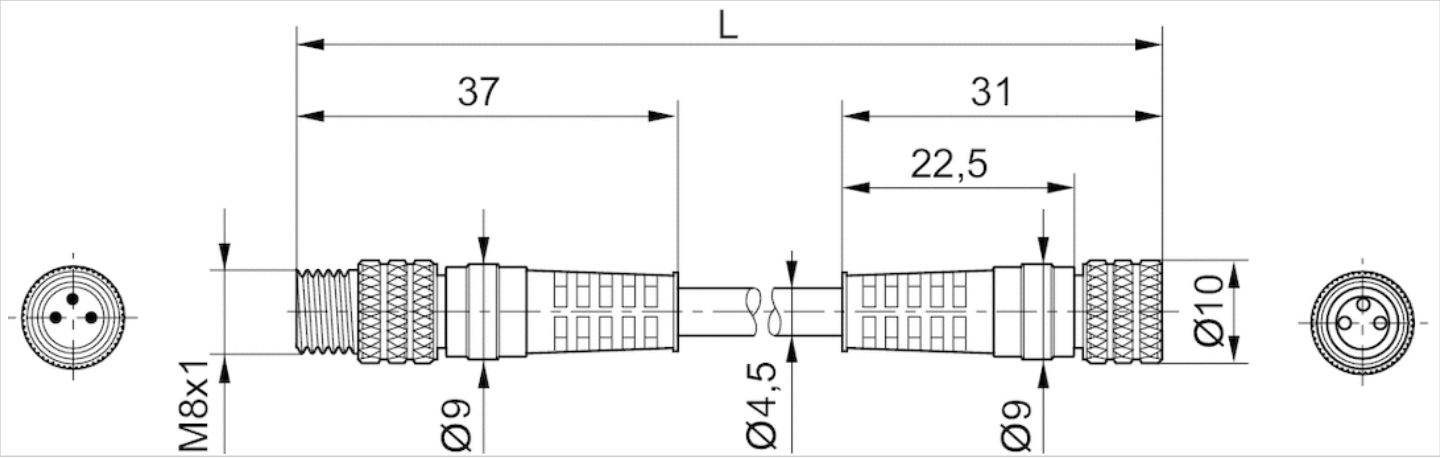
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyvinyl chloride

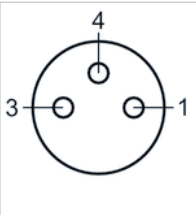
Dimensions

Dimensions



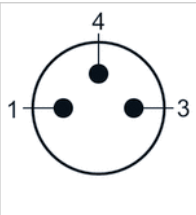
L = length

Pin assignment socket



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Socket, M8x1, 3-pin, A-coded, straight, 180°
- Plug, M12x1, A-coded, straight, 180°
- with cable
- unshielded



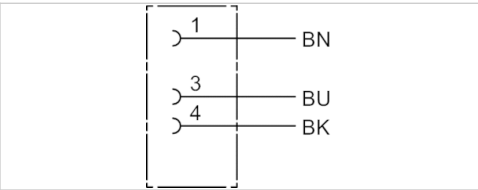
Protection class

Weight

IP68

0,073 kg

The delivered product may vary from that in the illustration.



Technical data

Part No.	Number of wires	Cable length
8946203462	3	2 m

Technical information

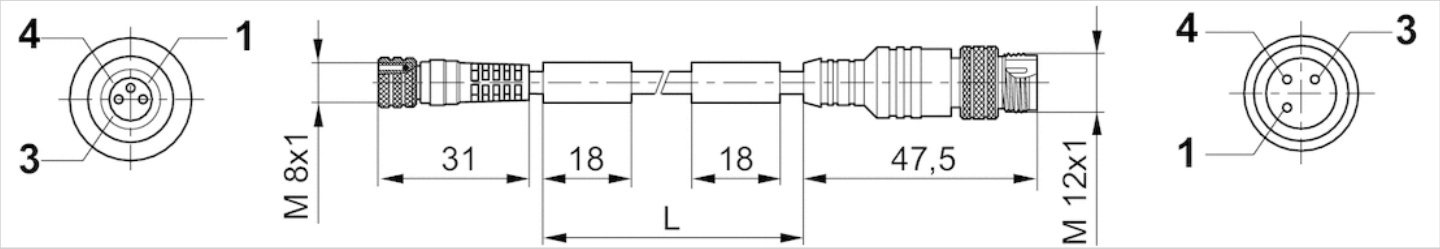
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyvinyl chloride

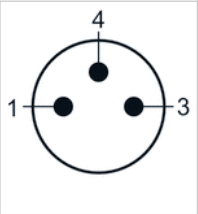
Dimensions

Dimensions



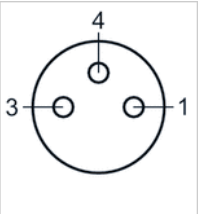
L = length

Plug pin assignment



Pin assignments

Pin assignment socket

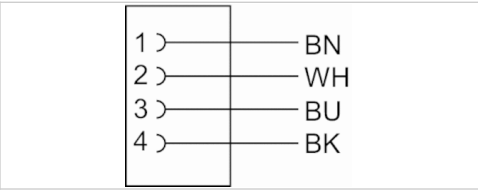


Y-Plug connector, series CON-RD

- Plug, M12x1, 4-pin, A-coded, straight, 180°
- 2, open cable ends, 3-pin
- 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-40 ... 80 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Mounting screw tightening torque	0,8 Nm
Weight	0,122 kg



Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length
R412021688	4 A	4	4,3 mm	2 m

with self-clinching screw

Technical information

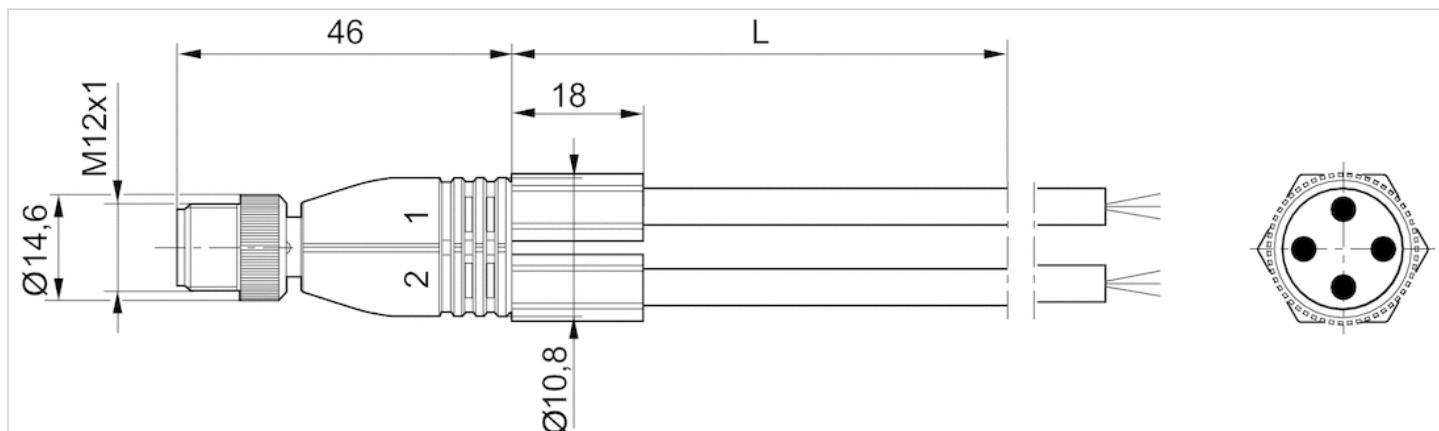
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

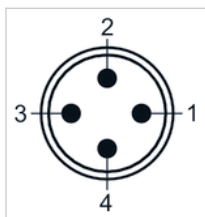
Dimensions



L = length

Pin assignments

Plug pin assignment



Line 1: (1) BN = brown, (3) BU =blue, (4) BK = black

Line 2: (1) BN = brown, (3) BU =blue, (2) BK = black

Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, B-coded, straight, 180°
- for PROFIBUS DP
- UL (Underwriters Laboratories)
- shielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,06 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8941054044	4 A	6 / 8 mm

Technical information

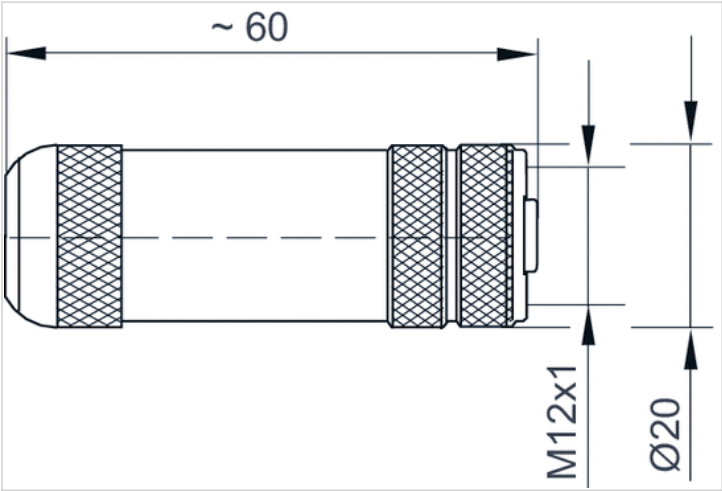
The specified protection class is only valid in assembled and tested state.

Technical information

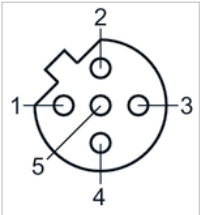
Material	
Housing	Brass, nickel-plated
Seals	Fluorocarbon caoutchouc

Dimensions

Dimensions



Pin assignments

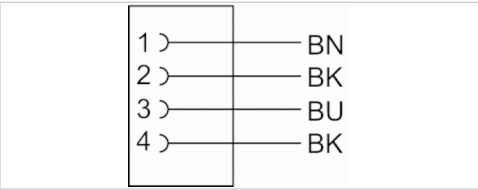


Y-Plug connector, series CON-RD

- Plug, M12x1, 4-pin, A-coded, straight, 180°
- 2, Socket, A-coded, straight, 180°
- Socket, M8x1, 3-pin, A-coded, straight, 180°
- with cable
- unshielded



Ambient temperature min./max.	-25 ... 80 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Mounting screw tightening torque	0,8 Nm
Weight	See table below



Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
R412021685	4 A	3	4,1 mm	0,6 m	0,064 kg
R412021687	4 A	3	4,1 mm	3 m	0,167 kg

Technical information

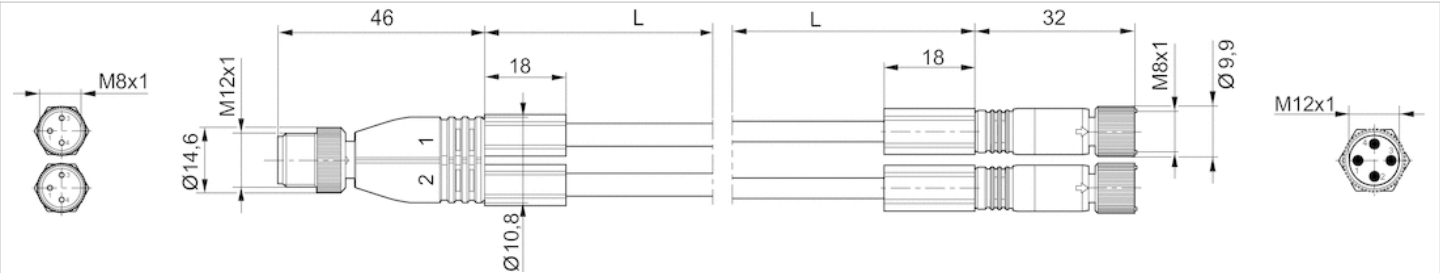
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

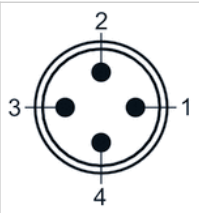
Dimensions

Dimensions



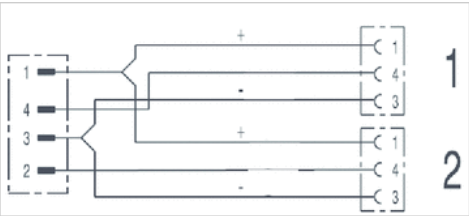
L = length

Plug pin assignment

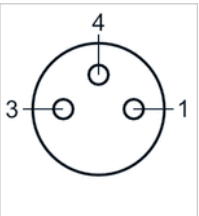


Pin assignments

Assignment scheme



Pin assignment socket



Round plug connector, Series CON-RD

- Plug, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,016 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
1834484222	4 A	4 mm

Technical information

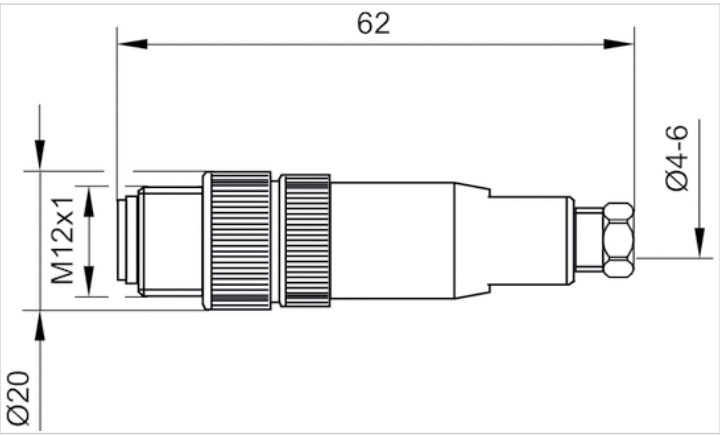
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

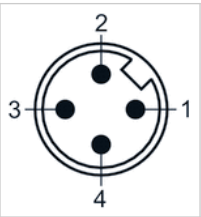
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, straight, 180°
- open cable ends, 5-pin
- with cable
- unshielded



Protection class
Weight

IP68
See table below
The delivered product may vary from that in the illustration.

Technical data

Part No.	Number of wires	Cable length	Weight
8946203432	5	2 m	0,102 kg
8946203442	5	5 m	0,238 kg

with self-clinching screw

Technical information

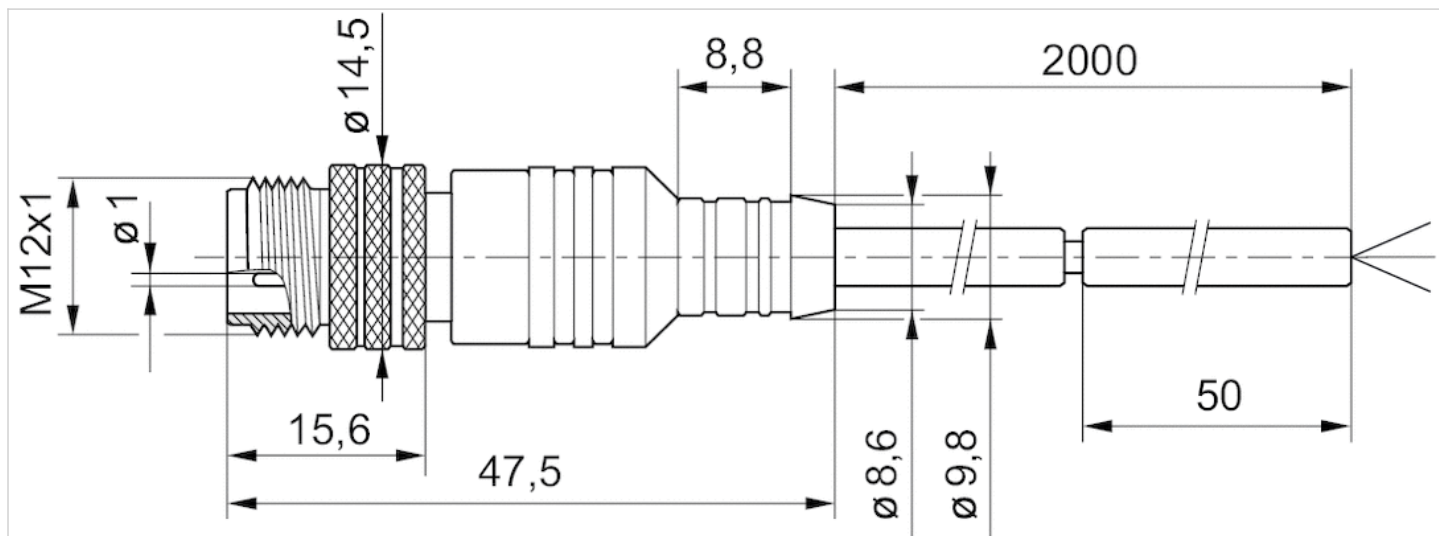
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyvinyl chloride

Dimensions

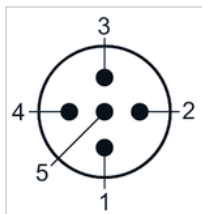
Dimensions



L = length

Pin assignments

Plug pin assignment



(1) BN=brown(2) WH=white(3) BU=blue(4) BK=black(5) GRN-Y=green-yellow

Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, B-coded, straight, 180°
- for PROFIBUS DP
- UL (Underwriters Laboratories)
- shielded



Connection type	Screws
Ambient temperature min./max.	-25 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,06 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8941054054	4 A	4 mm

Technical information

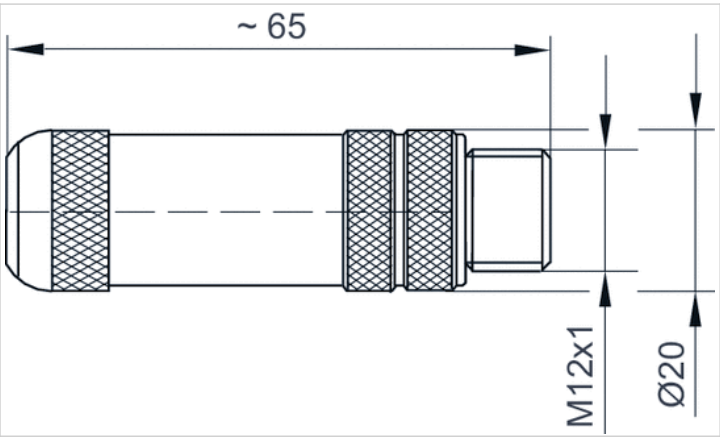
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated
Seals	Fluorocarbon caoutchouc

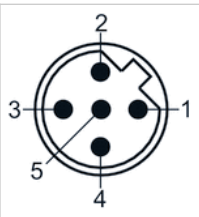
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 4-pin, A-coded, angled, 90°, Plug, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type
Ambient temperature min./max.
Operational voltage
Protection class
Weight

Screws
-40 ... 85 °C
48 V, AC/DC
IP67
See table below
The delivered product may vary from that in the illustration.

Technical data

Part No.	Electrical connection	Max. current	suitable cable-Ø min./max	Weight
	1			
1834484223	Plug, M12x1, 4-pin, A-coded, angled, 90°	4 A	4 mm	0,02 kg
1834484246	Plug, M12x1, 4-pin, A-coded, straight, 180°	4 A	2,1 / 3 mm	0,024 kg

Part No.	Fig.
1834484223	Fig. 1
1834484246	Fig. 2

For the duo plug, the cable diameter to be used varies between 2.1 ... 3.0 mm and 4.0 ... 5.0 mm depending on the seal used.

Technical information

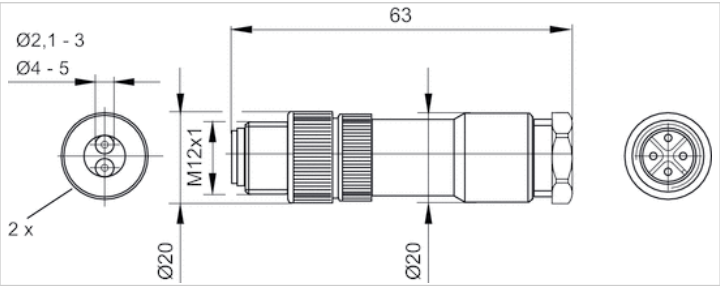
The specified protection class is only valid in assembled and tested state.

Included: 2 seals for 2 cables each with Ø 2.1 mm ... 3.0 mm and Ø 4.0 mm ... 5.0 mm .

Technical information

Material	
Housing	Polyamide

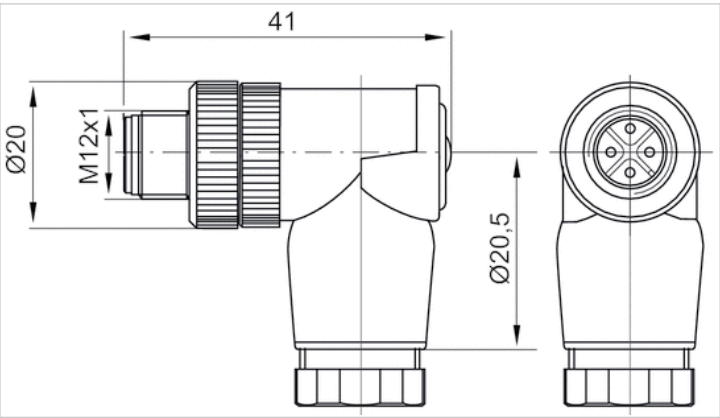
Fig. 2



duo plug

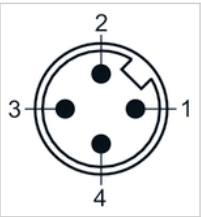
Dimensions

Fig. 1



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, angled, 90°
- open cable ends, 5-pin
- with cable
- suitable for dynamic laying
- unshielded



Ambient temperature min./max.	See table below
Operational voltage	48 V, AC/DC
Protection class	IP68
Wire cross-section	0,34 mm ²
Mounting screw tightening torque	0,8 Nm
Weight	See table below

Technical data

Part No.	Ambient temperature min./max.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length
R412021691	-40 ... 85 °C	4 A	5	50 mm	5 mm	2 m
R412021692	-40 ... 85 °C	4 A	5	50 mm	5 mm	5 m
R412021693	-25 ... 85 °C	4 A	5	50 mm	5 mm	10 m

Part No.	Weight
R412021691	0,093 kg
R412021692	0,2 kg
R412021693	0,381 kg

suitable for dynamic laying

Technical information

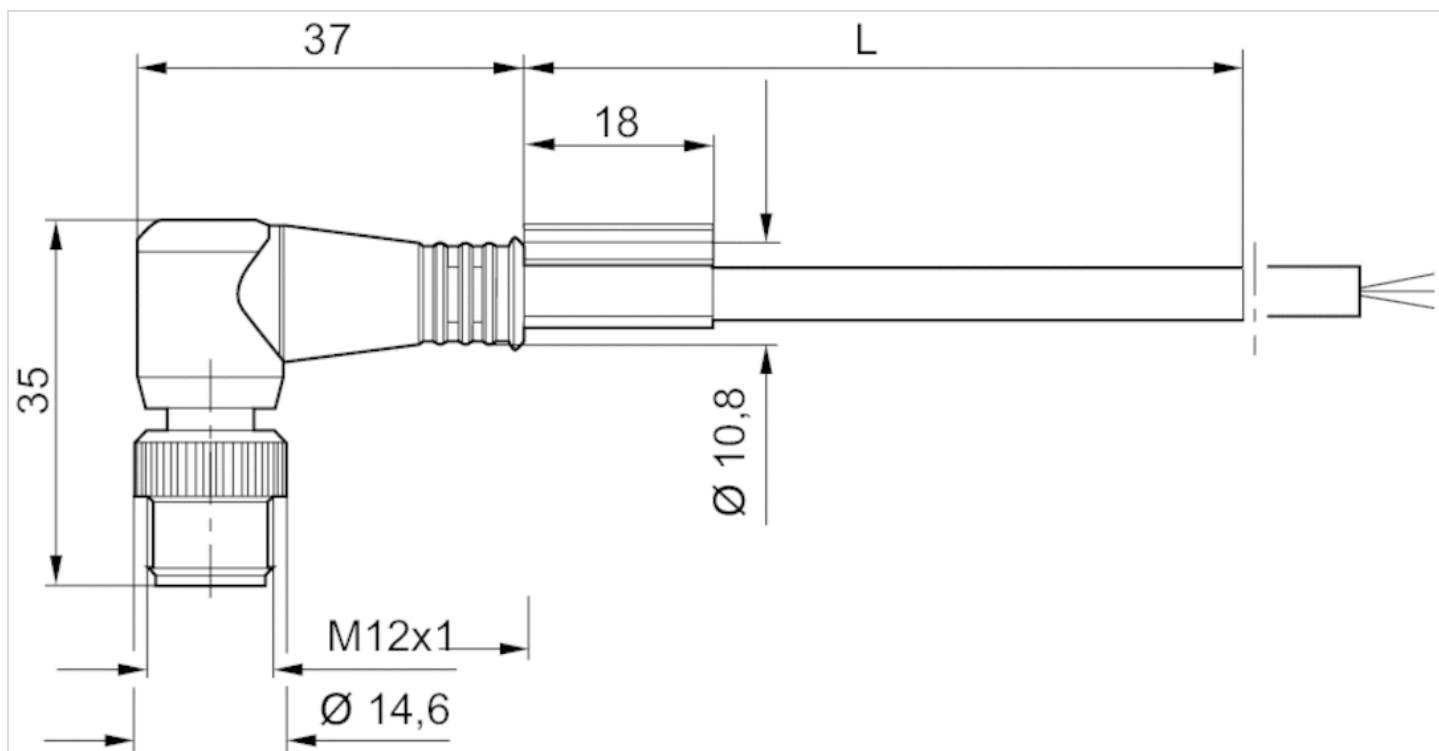
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

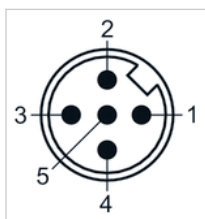
Dimensions



L = length

Pin assignments

Plug pin assignment



(1) BN=brown(2) WH=white(3) BU=blue(4) BK=black(5) GRN-Y=green-yellow

Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, straight, 180°
- Plug, angled, 90°
- with cable
- suitable for dynamic laying
- unshielded



Ambient temperature min./max.	-25 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP68
Wire cross-section	0,34 mm²
Mounting screw tightening torque	0,8 Nm
Weight	See table below

Technical data

Part No.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length	Weight
R412021694	4 A	5	50 mm	5 mm	2 m	0,114 kg
R412021695	4 A	5	50 mm	5 mm	5 m	0,217 kg

suitable for dynamic laying

Technical information

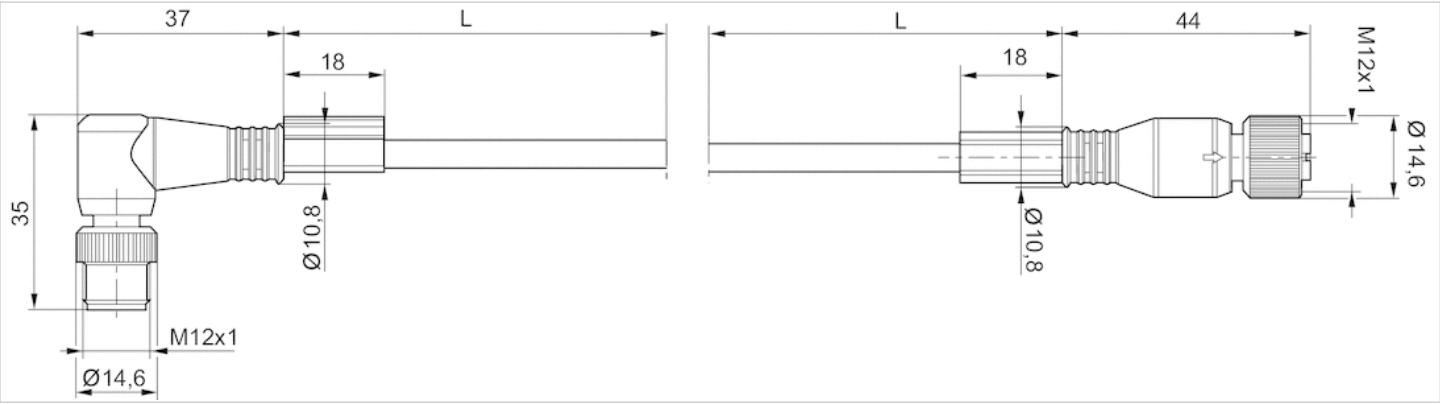
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

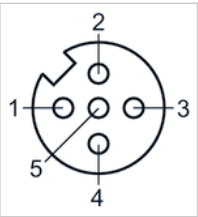
Dimensions

Dimensions



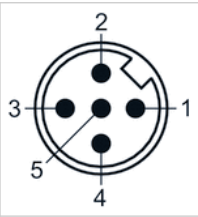
L = length

Pin assignment socket



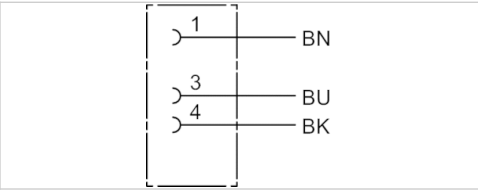
Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Socket, M8x1, 3-pin, A-coded, straight, 180°
- Plug, M12x1, A-coded, angled, 90°
- with cable
- suitable for dynamic laying
- unshielded



Ambient temperature min./max.	See table below
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Wire cross-section	0,25 mm²
Mounting screw tightening torque	0,5 Nm
Weight	See table below
The delivered product may vary from that in the illustration.	

Technical data

Part No.	Ambient temperature min./max.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length
R412021696	-25 ... 80 °C	4 A	3	41 mm	4,1 mm	2 m
R412021697	-20 ... 80 °C	4 A	3	41 mm	4,1 mm	5 m

Part No.	Weight
R412021696	0,077 kg
R412021697	0,135 kg

suitable for dynamic laying

Technical information

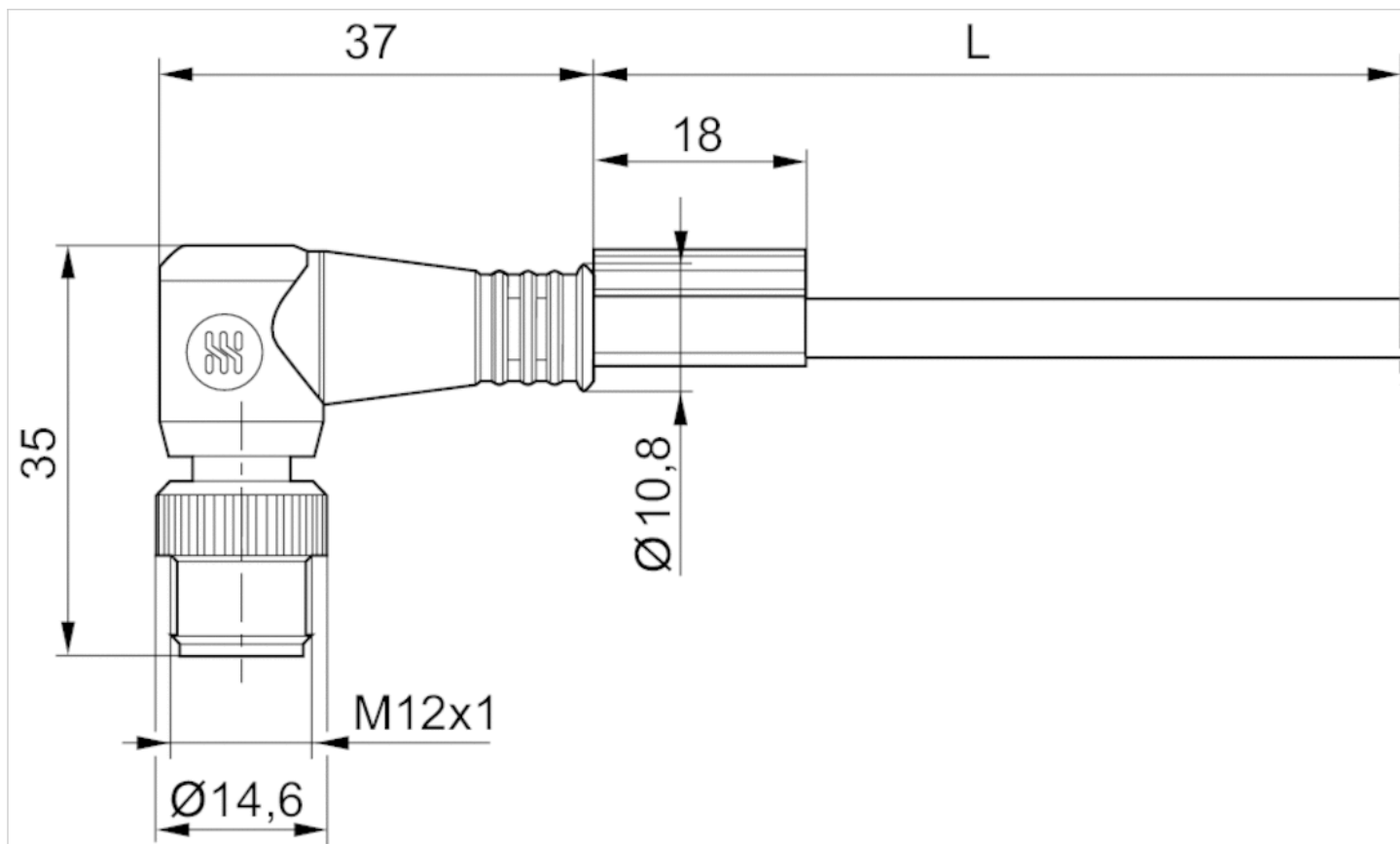
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

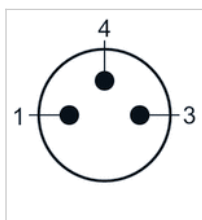
Dimensions

Dimensions



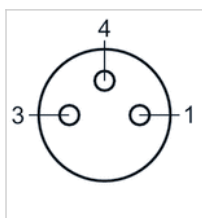
L = length

Plug pin assignment



Pin assignments

Pin assignment socket



Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, straight, 180°
- Plug, angled, 90°
- with cable
- suitable for dynamic laying
- shielded



Ambient temperature min./max.	-20 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP68
Wire cross-section	0,34 mm²
Mounting screw tightening torque	0,8 Nm

1	↷	—	BN
2	↷	—	WH
3	↷	—	BU
4	↷	—	BK
5	↷		

Technical data

Part No.	Max. current	Number of wires	Bending radius min.	Cable-Ø	Cable length
R412022193	4 A	4	54 mm	5,4 mm	2 m

suitable for dynamic laying

Technical information

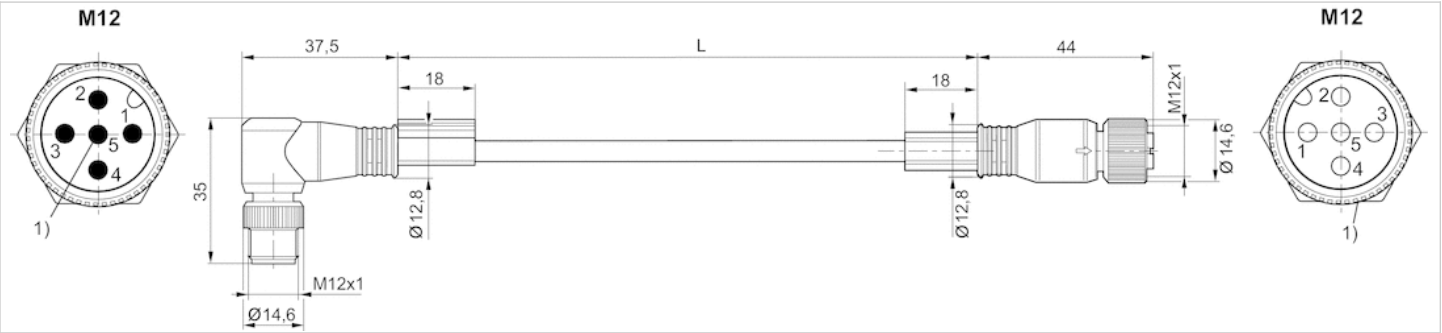
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

Dimensions

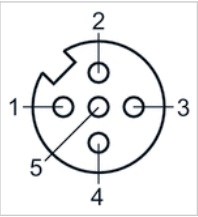


L = length

PIN assignment 1:1

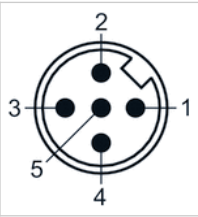
1) Shield is connected to pin 5 of the plug and the knurled screw of the socket.

Pin assignment socket



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 4-pin, A-coded, angled, 90°, Plug, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V, AC/DC
Protection class	IP67
Weight	See table below
The delivered product may vary from that in the illustration.	

Technical data

Part No.	Electrical connection	Max. current	suitable cable-Ø min./max	Weight
	1			
1834484223	Plug, M12x1, 4-pin, A-coded, angled, 90°	4 A	4 mm	0,02 kg
1834484246	Plug, M12x1, 4-pin, A-coded, straight, 180°	4 A	2,1 / 3 mm	0,024 kg

Part No.	Fig.
1834484223	Fig. 1
1834484246	Fig. 2

For the duo plug, the cable diameter to be used varies between 2.1 ... 3.0 mm and 4.0 ... 5.0 mm depending on the seal used.

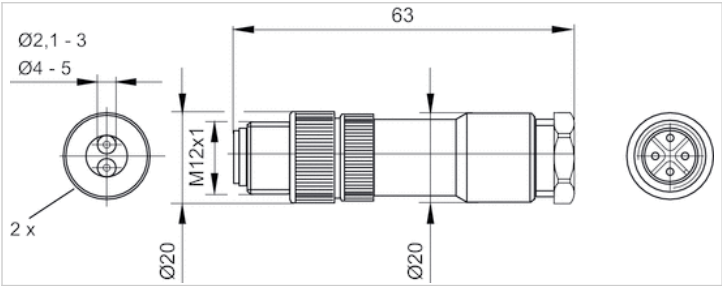
Technical information

The specified protection class is only valid in assembled and tested state.
Included: 2 seals for 2 cables each with Ø 2.1 mm ... 3.0 mm and Ø 4.0 mm ... 5.0 mm .

Technical information

Material	
Housing	Polyamide

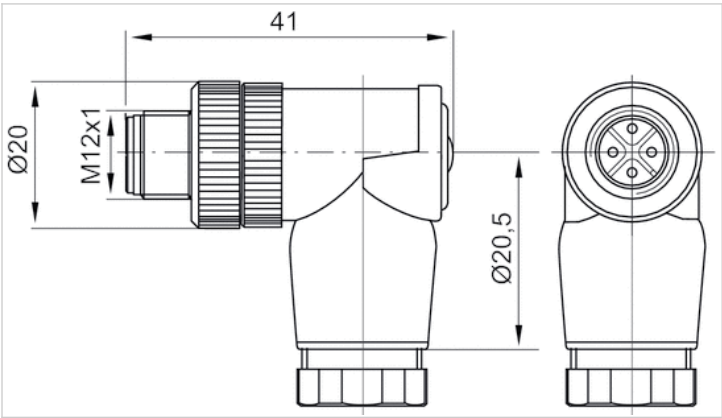
Fig. 2



duo plug

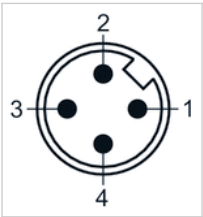
Dimensions

Fig. 1



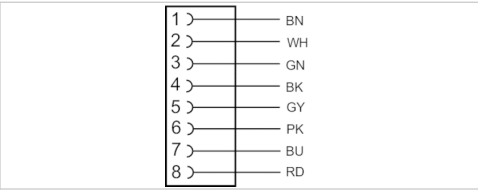
Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Socket, M12x1, 8-pin, A-coded, straight, 180°
- Plug, straight, 180°
- with cable
- suitable for dynamic laying
- shielded



Ambient temperature min./max.	-25 ... 80 °C
Operationalvoltage	30 / 36 V, AC/DC
Protection class	IP67
Wire cross-section	0,25 mm²
Weight	See table below

Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
8946202802	1,5 A	8	6,6 mm	0,5 m	0,067 kg
8946202812	1,5 A	8	6,6 mm	1 m	0,96 kg
8946202822	1,5 A	8	6,6 mm	2 m	0,161 kg
8946202832	1,5 A	8	6,6 mm	5 m	0,339 kg
8946202842	1,5 A	8	6,6 mm	10 m	0,65 kg

suitable for dynamic laying

Technical information

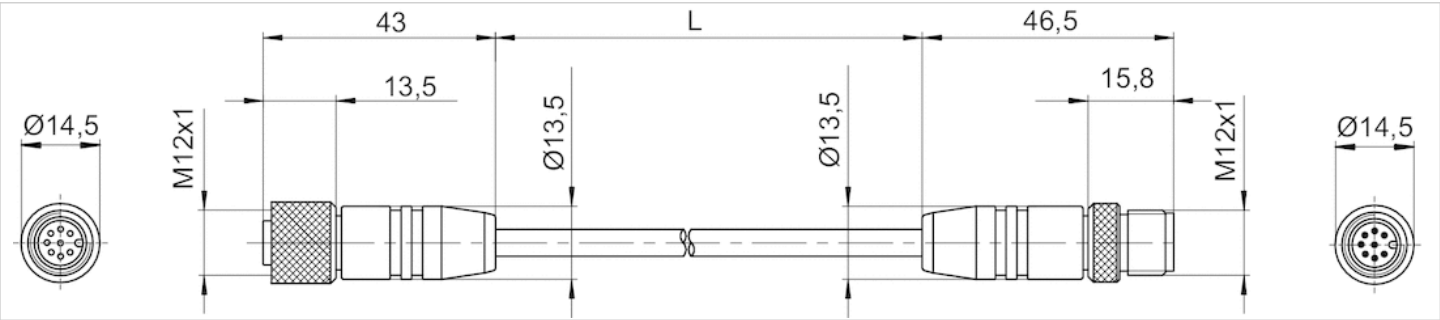
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Seals	Fluorocaoutchouc
Cable sheath	Polyurethane

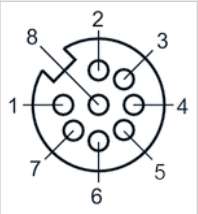
Dimensions

Dimensions

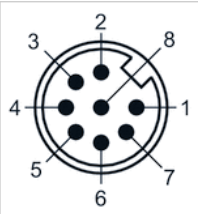


L = length

Pin assignment socket



Pin assignments



Round plug connector, Series CON-RD

- Plug, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,016 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
1834484222	4 A	4 mm

Technical information

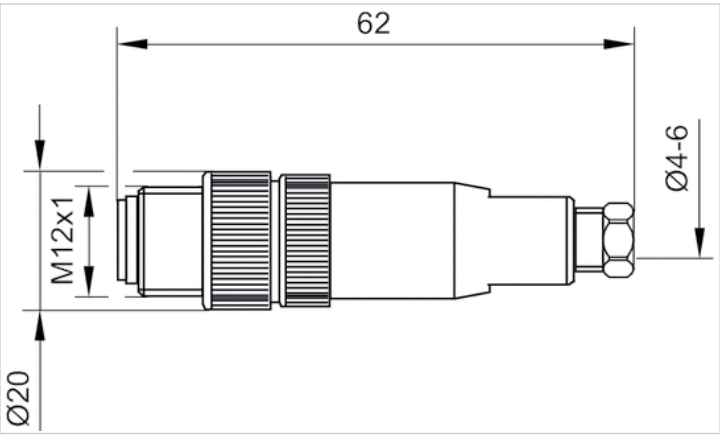
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

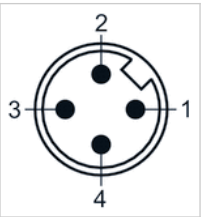
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 4-pin, D-coded, straight, 180°
- for Ethernet, EtherNET/IP, EtherCAT, POWERLINK, sercos III
- shielded



Connection type	Thread cutting
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,41 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
R419801401	4 A	6 mm

Technical information

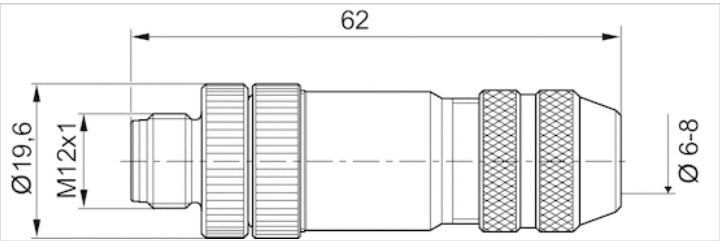
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated

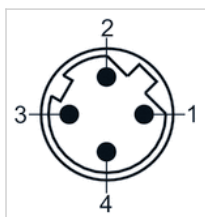
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, B-coded, straight, 180°
- for PROFIBUS DP
- UL (Underwriters Laboratories)
- shielded



Connection type	Screws
Ambient temperature min./max.	-25 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,06 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8941054054	4 A	4 mm

Technical information

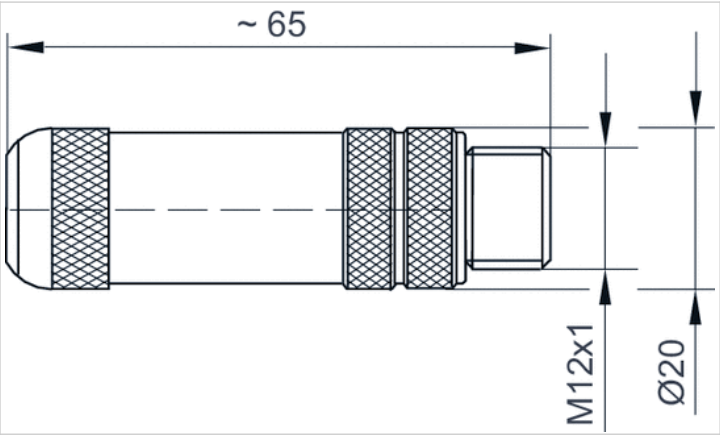
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated
Seals	Fluorocarbon caoutchouc

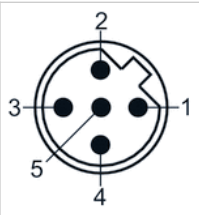
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, straight, 180°
- for CANopen, DeviceNet
- UL (Underwriters Laboratories)
- shielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,48 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8942051612	4 A	6 mm

Technical information

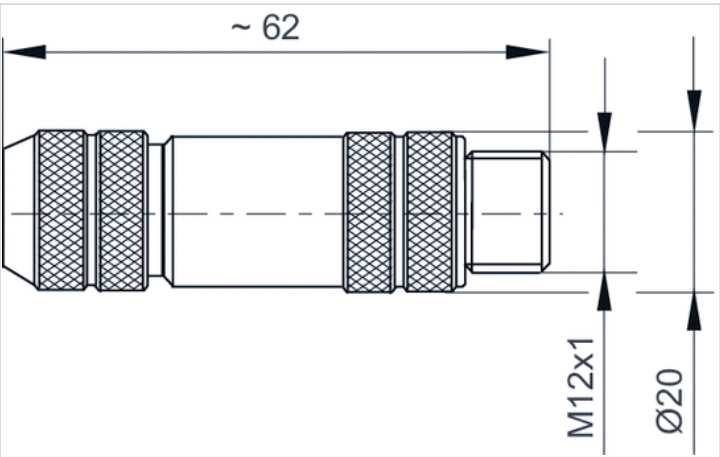
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated

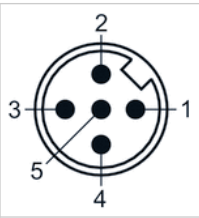
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Data final plug, Series CON-RD

- Plug, M12x1, 4-pin, B-coded, straight, 180°
- for PROFIBUS DP



Ambient temperature min./max.	-25 ... 80 °C
Protection class	IP67
Weight	0,013 kg

Technical data

Part No.
8941054064

Technical information

The specified protection class is only valid in assembled and tested state.

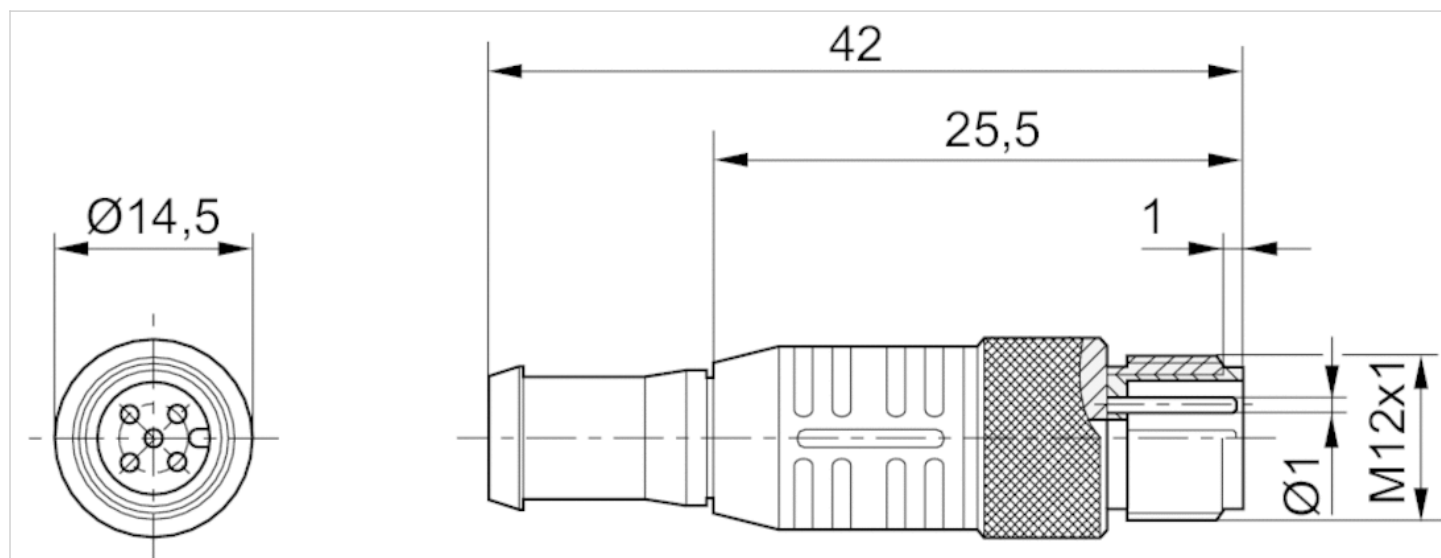
PROFIBUS DP bus termination plug

Technical information

Material	
Housing	Thermoplastic elastomer

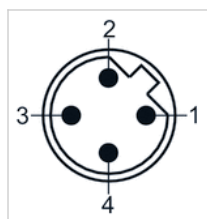
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Data final plug, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, straight, 180°
- for CANopen, DeviceNet



Ambient temperature min./max.	0 ... 60 °C
Protection class	IP67
Weight	0,011 kg

Technical data

Part No.
8941054264

Technical information

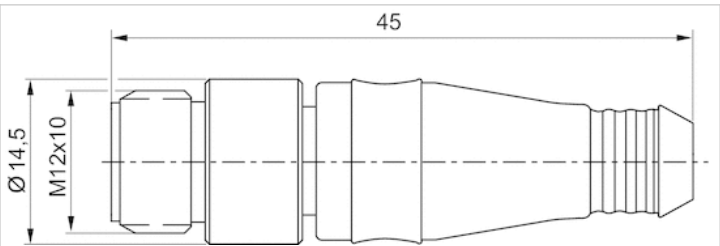
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Thermoplastic elastomer

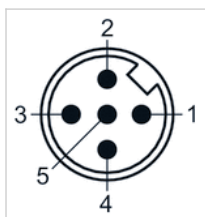
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Y-Plug connector, series CON-AP

- 2, Plug, M12x1, 4-pin, A-coded, straight, 180°
- Socket, M8x1, 3-pin, A-coded, straight, 180°
- Socket, M8x1, 3-pin, A-coded, straight, 180°
- unshielded



Ambient temperature min./max.	-25 ... 90 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,02 kg
	The delivered product may vary from that in the illustration.

Technical data

Part No.	Max. current
8941002382	4 A

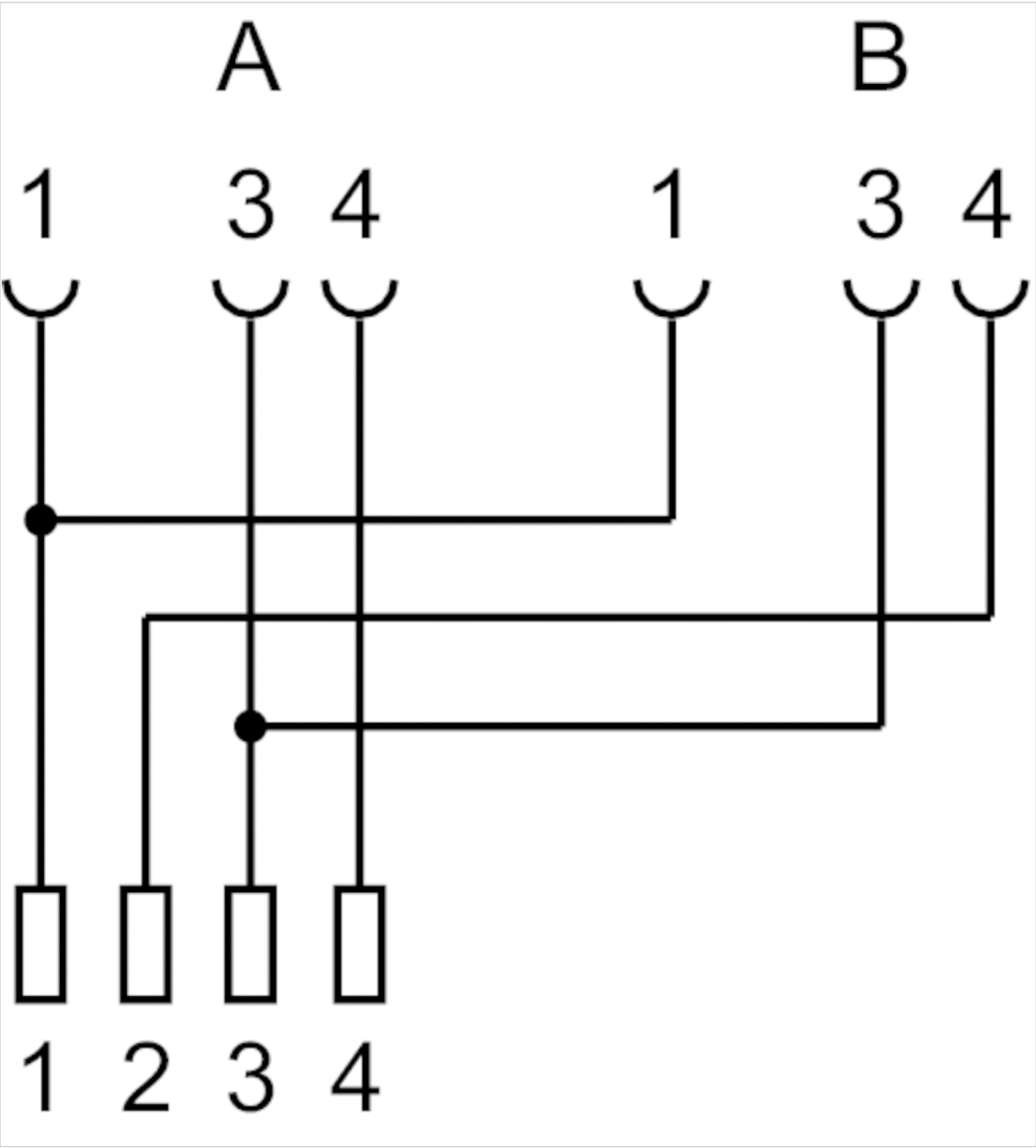
Technical information

The specified protection class is only valid in assembled and tested state.

Technical information

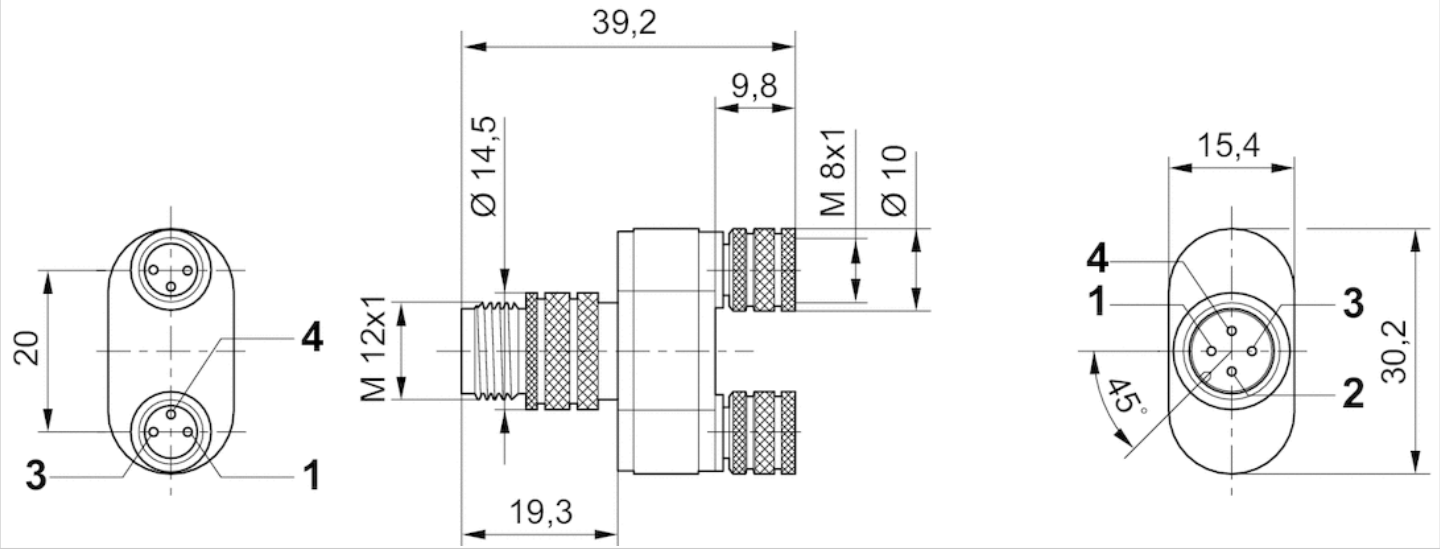
Material	
Housing	Polyurethane
Seals	Fluorocaoutchouc

Assignment scheme

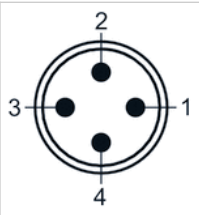


Dimensions

Dimensions

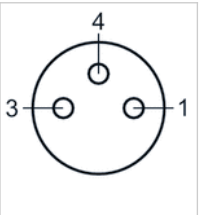


Plug pin assignment



Pin assignments

Pin assignment socket



Y-Plug connector, series CON-AP

- 2, Plug, M12x1, 5-pin, A-coded, straight, 180°
- Socket, A-coded, straight, 180°
- Socket, M12x1, 5-pin, A-coded, straight, 180°
- unshielded



Ambient temperature min./max.	-25 ... 90 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,029 kg
The delivered product may vary from that in the illustration.	

Technical data

Part No.	Max. current
8941002392	4 A

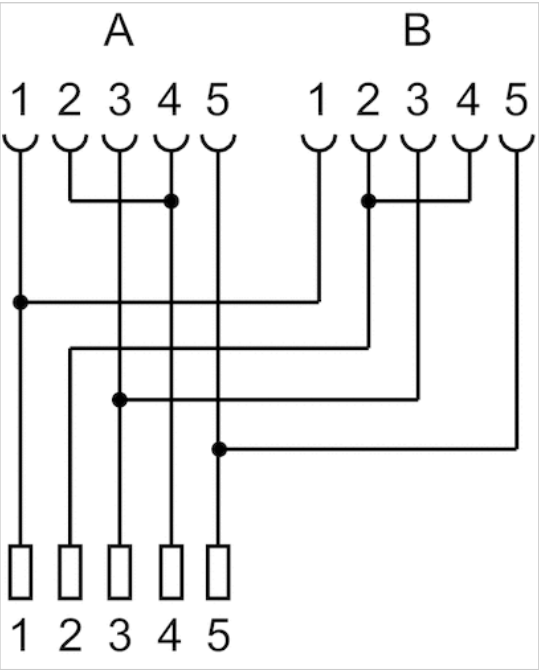
Technical information

The specified protection class is only valid in assembled and tested state.

Technical information

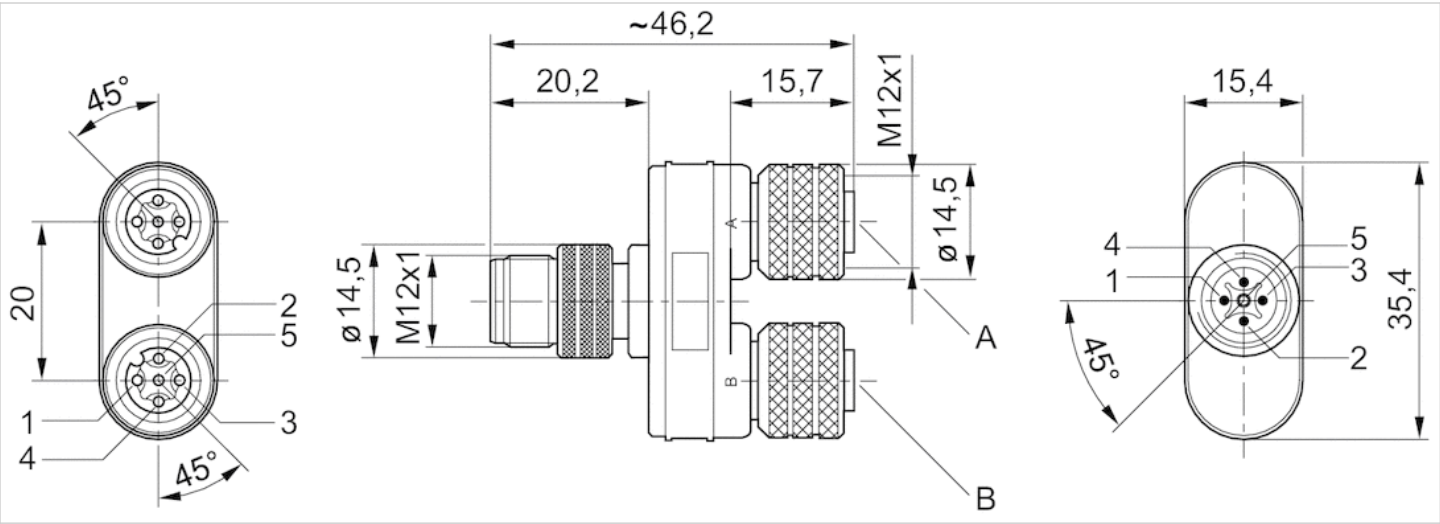
Material	
Housing	Polyurethane
Seals	Fluorocaoutchouc

Assignment scheme



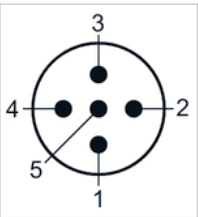
Dimensions

Dimensions



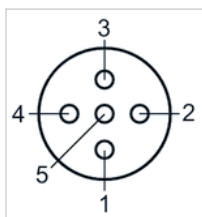
Sockets: Pin 2 and 4 bridged.

Plug pin assignment



Pin assignments

Pin assignment socket



Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type	Screws
Ambient temperature min./max.	-25 ... 90 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,029 kg
The delivered product may vary from that in the illustration.	

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8941054324	4 A	4 mm

Technical information

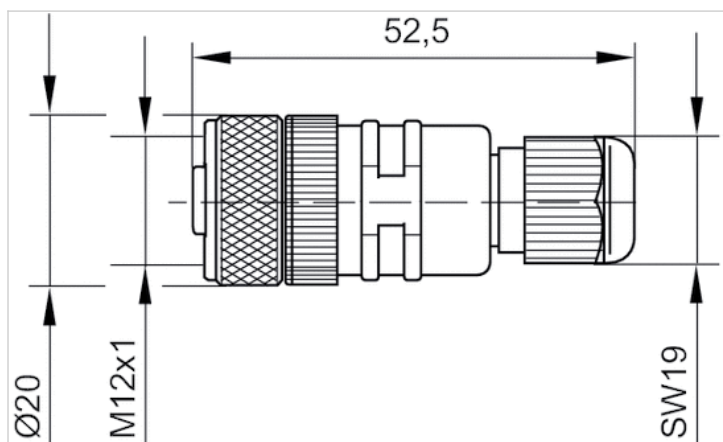
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polybutyleneterephthalate
Seals	Fluorocarbon caoutchouc

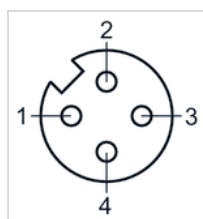
Dimensions

Dimensions



Pin assignments

Pin assignment socket



Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, angled, 90°
- unshielded



Connection type	Screws
Ambient temperature min./max.	-25 ... 90 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,027 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8941054424	4 A	4 mm

Technical information

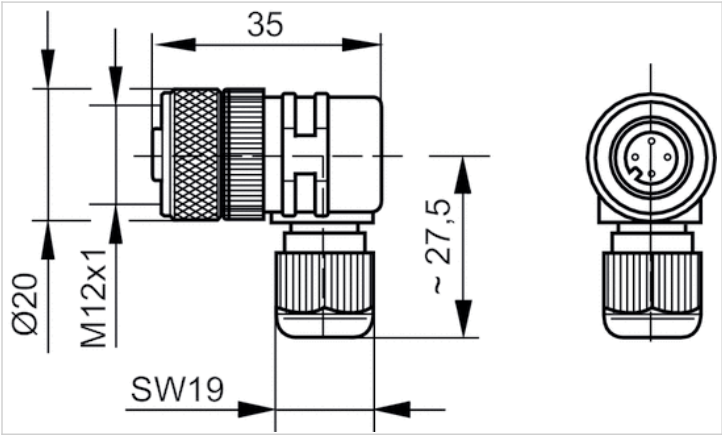
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polybutyleneterephthalate
Seals	Fluorocarbon caoutchouc

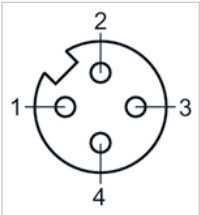
Dimensions

Dimensions



Pin assignments

Pin assignment socket



Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, straight, 180°
- for CANopen, DeviceNet
- UL (Underwriters Laboratories)
- shielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operationalvoltage	48 V, AC/DC
Protection class	IP67
Weight	0,051 kg

Technical data

Part No.	Max. current	suitable cable-Ø min./max
8942051602	4 A	6 mm

Technical information

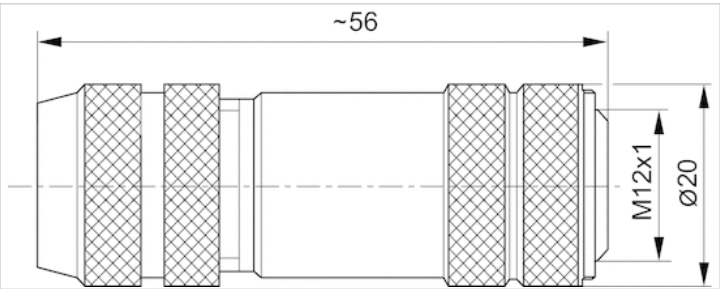
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated

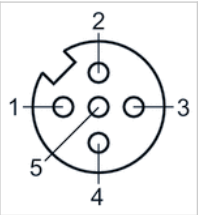
Dimensions

Dimensions



Pin assignments

Pin assignment socket



Distributor, Series AES

- 4x passive distributor, M12x1, 8-pin / 4x M8x1, 3-pin
- Plug (male), M12x1, 8-pin



Ambient temperature min./max.	-30 ... 80 °C
Operational voltage electronics	24 V DC
Power consumption electronics	2 A
Protection class	IP67
Weight	0,07 kg

Technical data

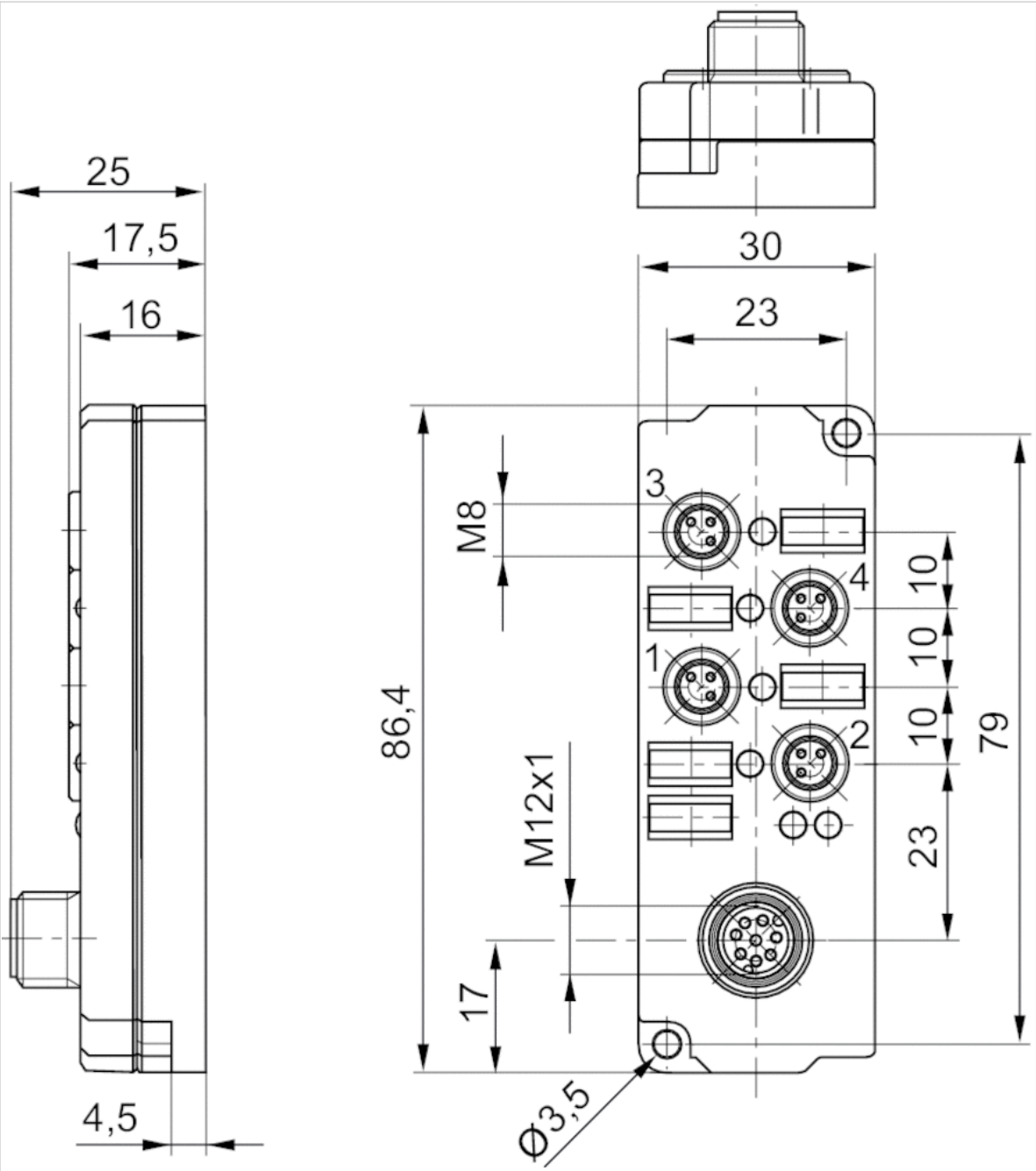
Part No.	Type	Port	
		1	2
R402001810	16DI4M12, 16DI8M8	Plug (male), M12x1, 8-pin	Socket (female), M8x1, 3-pin

Technical information

Material	
Housing	Polyamide

Dimensions

Dimensions



Protective cap, series CON-RD

- M8x1



Ambient temperature min./max.
 -40 ... 85 °C

Protection class
 IP67

Weight
 0,001 kg

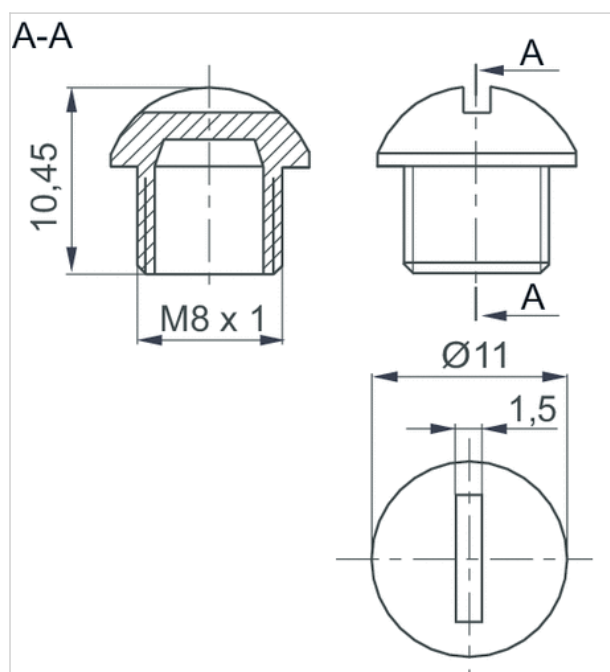
Technical data

Part No.	Type	Scope of delivery
R412003493	M8x1	25

Technical information

Material	
Housing	Polyamide

Dimensions



Protective cap, series CON-RD

- M12x1



Ambient temperature min./max.	-40 ... 85 °C
Protection class	IP67
Weight	0,001 kg

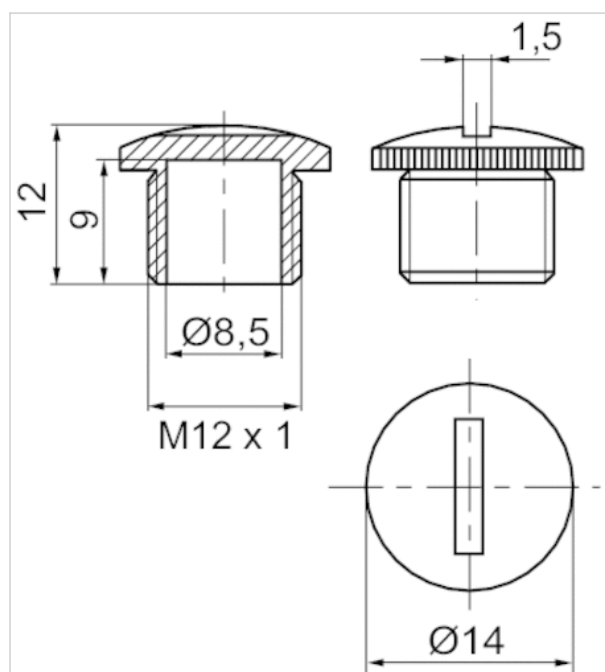
Technical data

Part No.	Type	Delivery unit
1823312001	M12x1	50 piece

Technical information

Material	
Housing	Polyamide

Dimensions



Cable socket



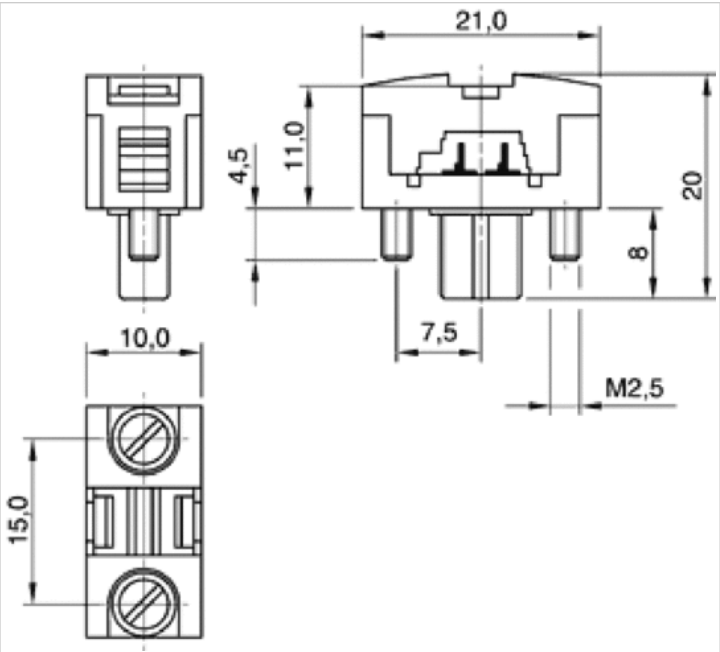
Weight

0,005 kg

Technical data

Part No.	Type
1824484064	AS-i cable socket incl. label

Dimensions



Protective cap, series CON-RD

- M8x1



Ambient temperature min./max.
 -40 ... 85 °C

Protection class
 IP67

Weight
 0,001 kg

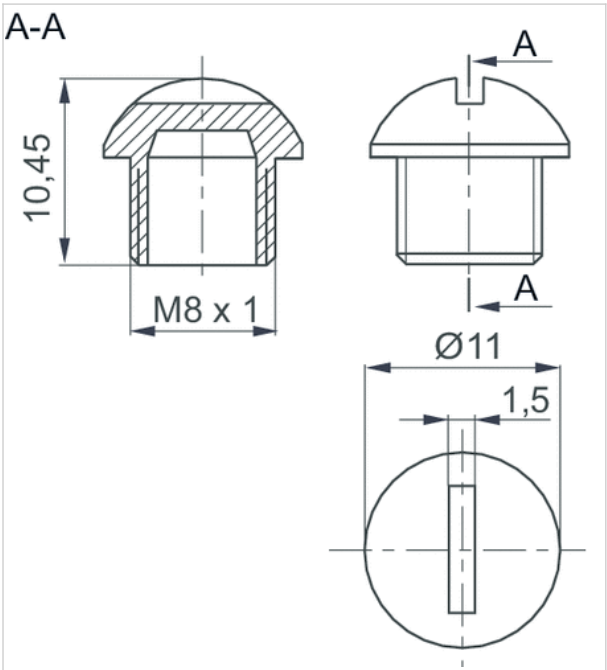
Technical data

Part No.	Type	Scope of delivery
R412003493	M8x1	25

Technical information

Material	
Housing	Polyamide

Dimensions



End plate left

- For CMS bus coupler, B-design, For DDL driver with I/O function, For link structure AS-i, B-design with I/O function



Weight0,141 kg

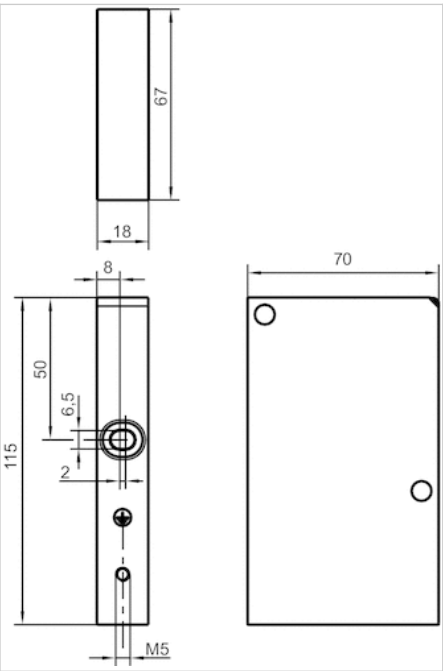
Technical data

Part No.	Type
R412003490	End plate left

Includes screws and seals.

Dimensions

Dimensions



Mounting for DIN rail

- For bus coupler



Weight

0,052 kg

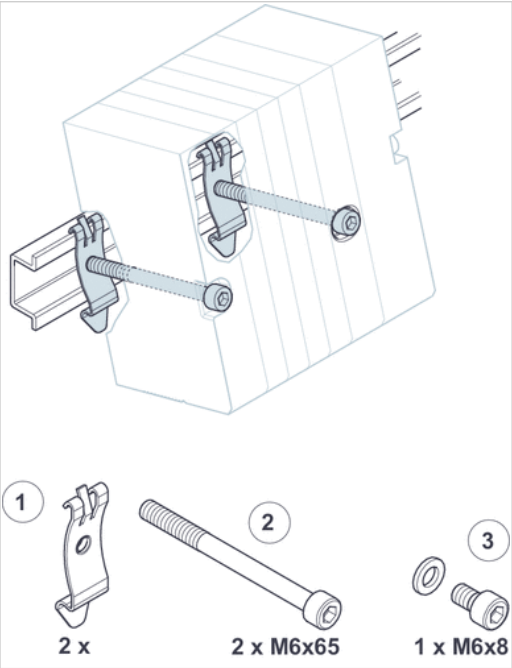
Technical data

Part No.	Type
1827010709	Mounting kit for hat rail DIN EN 60715, 35x15

Scope of delivery: (1) 2 clamp mountings, (2) 2 screws M6x65, (3) 1 screw M6x8

Dimensions

Dimensions



Scope of delivery: (1) 2 clamp mountings, (2) 2 screws M6x65, (3) 1 screw M6x8