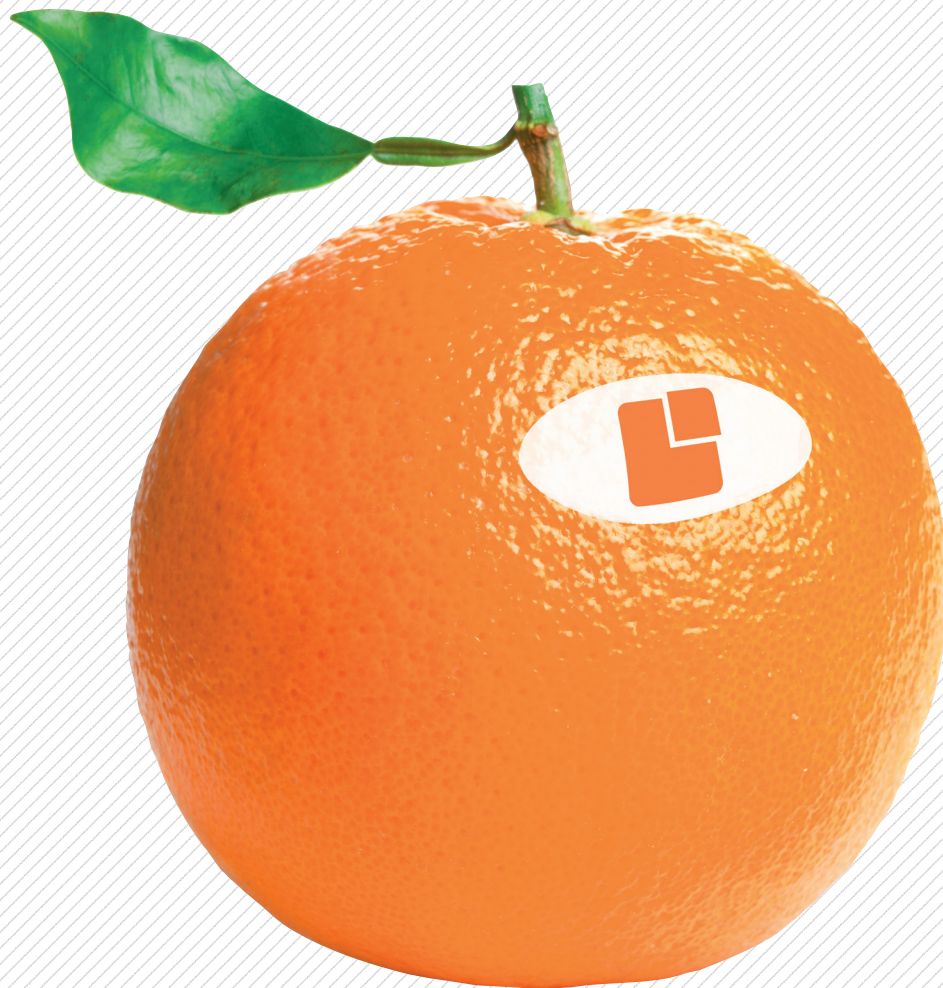




Compact Catalog



Fresh thinking
creates this world.





Lutronic

Lutronic, set up for international operations in 2016, is specialized in actuator/sensor wiring solutions in automation.

The company shares in the specific know-how of the Lumberg Group, which established the M12 circular connector as a global standard in the early 80s. Based on this, Lutronic produces and distributes quality M8 and M12 circular connectors for customized signal, data and power applications, as a sister company of the Lumberg Group.

The particular strength of Lutronic is – in addition to the standardized industrial connectors – the development and production of customized solutions for equipment manufacturers. With our own Lutronic companies in Europe, North America, China and Singapore, we serve international customers, worldwide.

Lutronic – that means:

■ Anywhere – Anytime

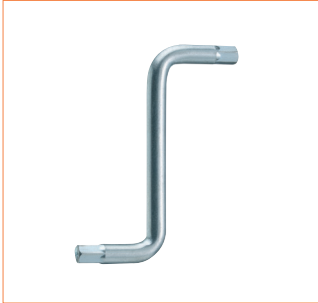


Lutronic –
worldwide
support.





Lutronic – that means:



- Convenient – Like a Global Furniture Store

Global availability of our products via partners and distributors.



- Thinking Globally – Acting Locally

In addition to a wide range of standard products, Lutronic offers the option of regional types.



- Your Special – Our Standard

Lutronic is an expert for customer-specific connectivity solutions with a high need for quality and attractive prices.

M12

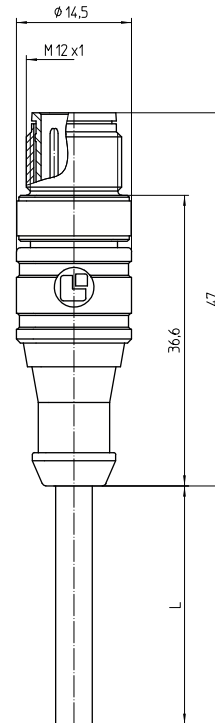
1210 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with male connector

Threaded joint, IP 67

 [under preparation]



M12 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight,
A-coded

Cable end 2: blunt cut

Cable: PVC, black

Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



1210 ... 0...

M12

Ambient Conditions

Temperature Range	-25 °C/+80 °C
Connector body	PVC, HB according to UL 94
Contact carrier	TPU GF, HB according to UL 94
Male contact	CuZn, pre-nickel and gold-plated
Knurled screw	CuZn, nickel-plated

Materials

Mechanical Data

Insertion force ¹	≤ 10 N
Withdrawal force ¹	≤ 15 N
Mating cycles	≥ 100
Protection degree ²	IP67
Mating connectors	M12 female connector according to IEC 61076-2-101

Connected Cable³

Cable jacket	PVC
Cable no.	910002 (4 x 0.34 mm ²)
UL style	2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	≤ 10 mΩ
Rated current at T _{amb} 40 °C	4 A
Rated voltage ⁴	250 V AC/DC
Rated impulse voltage ⁴	2.50 kV
Material group ⁴	I (IEC)/0 (UL) (CTI=600)
Pollution degree ⁴	3
Insulation resistance	> 10 ⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1210 04 002 2m	4	PVC, black	2
1210 04 002 5m	4	PVC, black	5
1210 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M12

1210 ... 3...

Actuator/sensor cordset **PUR**

Single-ended with male connector

Threaded joint, IP 67

 [under preparation]

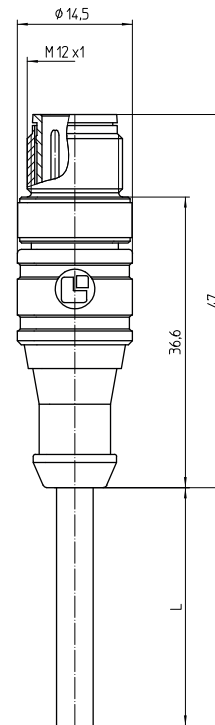


M12 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight,
A-coded

Cable end 2: blunt cut

Cable: PUR, black



Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



1210 ... 3...

M12

Ambient Conditions

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrierr TPU GF, HB according to UL 94
Male contact CuZn, pre-nickel and gold-plated
Knurled screw CuZn, nickel-plated

Mechanical Data

Insertion force¹ ≤ 10 N
Withdrawal force¹ ≤ 15 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 female connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PUR
Cable no. 910301 (4 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 250 V AC/DC
Rated impulse voltage⁴ 2.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1210 04 301 2m	4	PUR, black	2
1210 04 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M12

1200 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with female connector

Threaded joint, IP67

 [under preparation]

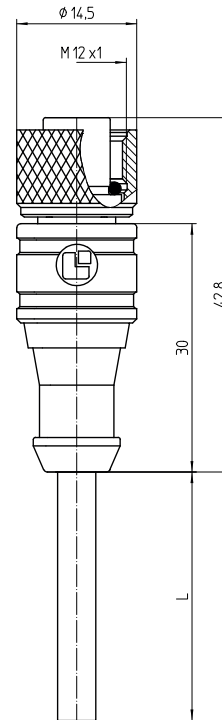


M12 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M12 female connector, straight, A-coded

Cable end 2: blunt cut

Cable: PVC, black



Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



1200 ... 0...

M12

Temperature Range

Temperature Range -25 °C/+80 °C

Materials

Connector body PVC, HB according to UL 94
Contact carrier TPU GF, HB according to UL 94
Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 10 N
Withdrawal force¹ ≤ 15 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 male connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PVC
Cable no. 910002 (4 x 0.34 mm²)
UL style 2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 250 V AC/DC
Rated impulse voltage⁴ 2.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1200 04 002 2m	4	PVC, black	2
1200 04 002 5m	4	PVC, black	5
1200 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M12

1200 ... 3...

Actuator/sensor cordset **PUR**

Single-ended with female connector

Threaded joint, IP67

 [under preparation]

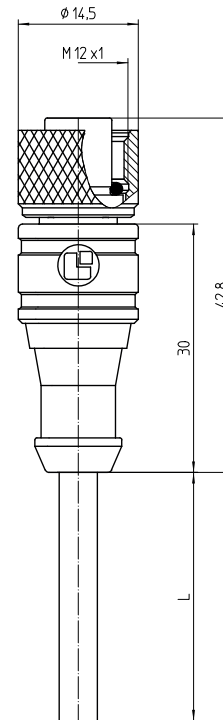


M12 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M12 female connector, straight, A-coded

Cable end 2: blunt cut

Cable: PUR, black



Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



1200 ... 3...

M12

Temperature Range

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 10 N
Withdrawal force¹ ≤ 15 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 male connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PUR
Cable no. 910301 (4 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 250 V AC/DC
Rated impulse voltage⁴ 2.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1200 04 301 1m	4	PUR, black	1
1200 04 301 2m	4	PUR, black	2
1200 04 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M12

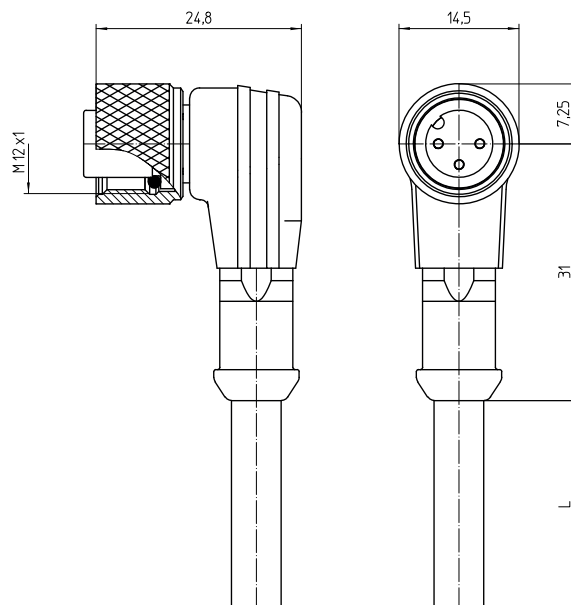
1205 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with female connector

Threaded joint, IP67

 [under preparation]



M12 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M12 female connector, angled,
A-coded

Cable end 2: blunt cut

Cable: PVC, black

Pin Arrangement

4 poles



1 = brown
2 = white
3 = blue
4 = black

5 poles



1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

8 poles



1 = white
2 = brown
3 = green
4 = yellow
5 = gray
6 = pink
7 = blue
8 = red



1205 ... 0...

M12

Temperature Range

Temperature Range -25 °C/+80 °C

Materials

Connector body PVC, HB according to UL 94
Contact carrier TPU GF, HB according to UL 94
Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 10 N (4 bis 5-polig)
≤ 23 N (8-polig)
Withdrawal force¹ ≤ 15 N (4 bis 5-polig)
≤ 30 N (8-polig)
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 male connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PVC
Cable no. 910002 (4 x 0.34 mm²)
910003 (5 x 0.34 mm²)
910004 (8 x 0.34 mm²)
UL style 2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A (4 to 5 pole)
2 A (8 pole)
Rated voltage⁴ 250 V AC/DC (4 pole)
60 V AC/DC (5 pole)
30 V AC/DC (8 pole)
Rated impulse voltage⁴ 2.50 kV (4 pole)
1.50 kV (5 pole)
0.80 kV (8 pole)
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart

² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529

³ specifications on page 44

⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1205 04 002 2m	4	PVC, black	2
1205 04 002 5m	4	PVC, black	5
1205 04 002 10m	4	PVC, black	10
1205 05 003 2m	5	PVC, black	2
1205 05 003 5m	5	PVC, black	5
1205 08 004 2m	8	PVC, black	2
1205 08 004 5m	8	PVC, black	5

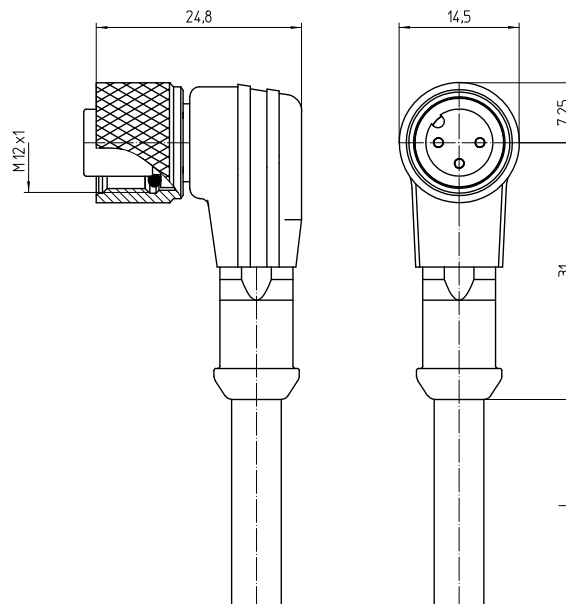
More pole numbers and cable lengths on request.

M12

1205 ... 3...

Actuator/sensor cordset **PUR**
Single-ended with female connector
Threaded joint, IP67

 [under preparation]



M12 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M12 female connector, angled,
A-coded

Cable end 2: blunt cut

Cable: PUR, black

Pin Arrangement

4 poles



1 = brown
2 = white
3 = blue
4 = black

5 poles



1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

8 poles



1 = white
2 = brown
3 = green
4 = yellow
5 = gray
6 = pink
7 = blue
8 = red



1205 ... 3...

M12

Ambient Conditions

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 10 N (4 bis 5-polig)
≤ 23 N (8-polig)
Withdrawal force¹ ≤ 15 N (4 bis 5-polig)
≤ 30 N (8-polig)
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 male connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PUR
Cable no. 910301 (4 x 0.34 mm²)
910302 (5 x 0.34 mm²)
910303 (8 x 0.25 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A (4 to 5 pole)
2 A (8 pole)
Rated voltage⁴ 250 V AC/DC (4 pole)
60 V AC/DC (5 pole)
30 V AC/DC (8 pole)
Rated impulse voltage⁴ 2.50 kV (4 pole)
1.50 kV (5 pole)
0.80 kV (8 pole)
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart

² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529

³ specifications on page 44

⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1205 04 301 2m	4	PUR, black	2
1205 04 301 5m	4	PUR, black	5
1205 05 302 1m	5	PUR, black	1
1205 05 302 2m	5	PUR, black	2
1205 05 302 5m	5	PUR, black	5
1205 08 303 2m	8	PUR, black	2
1205 08 303 5m	8	PUR, black	5

More pole numbers and cable lengths on request.

M12

1210 1200 ... 0...

Actuator/sensor cordset **PVC**

Double-ended with male and female connectors

Threaded joint, IP67

 [under preparation]

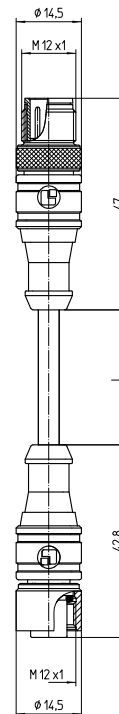


M12 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight, A-coded

Cable end 2: M12 female connector, straight, A-coded

Cable: PVC, black



Pin Arrangement

4 poles, male



1 = brown
2 = white
3 = blue
4 = black

4 poles, female



5 poles, male



1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

5 poles, female





Temperature Range

Temperature Range -25 °C/+80 °C

Materials

Connector body PVC, HB according to UL 94
Contact carrier TPU GF, HB according to UL 94
Male contact/Female contact CuZn, pre-nickel and gold-plated
Knurled screw/Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 10 N
Withdrawal force¹ ≤ 15 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 male/female connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PVC
Cable no. 910002 (4 x 0.34 mm²)
910003 (5 x 0.34 mm²)
UL style 2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 250 V AC/DC (4 pole)
60 V AC/DC (5 pole)
Rated impulse voltage⁴ 2.50 kV (4 pole)
1.50 kV (5 pole)
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1210 1200 04 002 0.6m	4	PVC, black	0.6
1210 1200 05 003 1.5m	4	PVC, black	1.5
1210 1200 04 002 2m	4	PVC, black	2
1210 1200 04 002 5m	4	PVC, black	5
1210 1200 05 003 0.6m	5	PVC, black	0.6
1210 1200 05 003 1.5m	5	PVC, black	1.5
1210 1200 05 003 2m	5	PVC, black	2
1210 1200 05 003 5m	5	PVC, black	5

More pole numbers and cable lengths on request.

M12

1210 1200 ... 3...

Actuator/sensor cordset **PUR**

Double-ended with male and female connectors

Threaded joint, IP67

 [under preparation]

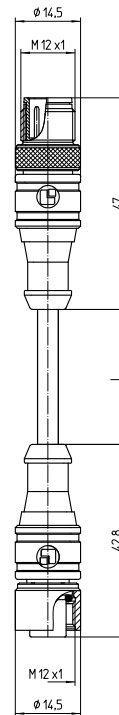


M12 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight, A-coded

Cable end 2: M12 female connector, straight, A-coded

Cable: PUR, black



Pin Arrangement

4 poles, male



1 = brown
2 = white
3 = blue
4 = black

4 poles, female



5 poles, male



1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

5 poles, female





1210 1200 ... 3...

M12

Ambient Conditions

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Male contact/Female contact CuZn, pre-nickel and gold-plated
Knurled screw/Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 10 N
Withdrawal force¹ ≤ 15 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M12 male/female connector according to IEC 61076-2-101

Connected Cable³

Cable jacket PUR
Cable no. 910301 (4 x 0.34 mm²)
910302 (5 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 250 V AC/DC (4 pole)
60 V AC/DC (5 pole)
Rated impulse voltage⁴ 2.50 kV (4 pole)
1.50 kV (5 pole)
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart

² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529

³ specifications on page 44

⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1210 1200 04 301 0.6m	4	PUR, black	0.6
1210 1200 04 301 1.5m	4	PUR, black	1.5
1210 1200 04 301 2m	4	PUR, black	2
1210 1200 04 301 5m	4	PUR, black	5
1210 1200 05 302 0.6m	5	PUR, black	0.6
1210 1200 05 302 1.5m	5	PUR, black	1.5
1210 1200 05 302 2m	5	PUR, black	2
1210 1200 05 302 5m	5	PUR, black	5

More pole numbers and cable lengths on request.

M12

1210 1205 ... 3...

Actuator/sensor cordset **PUR**

Double-ended with male and female connectors

Threaded joint, IP67

 [under preparation]

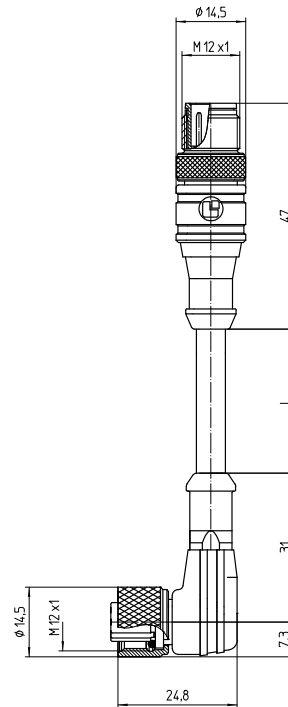


M12 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight, A-coded

Cable end 2: M12 female connector, angled, A-coded

Cable: PUR, black



Pin Arrangement

4 poles, male



4 poles, female



1 = brown
2 = white
3 = blue
4 = black



Temperature Range

Temperature Range-25 °C/+80 °C

Materials

Connector bodyTPU halogen-free, V-0 acc. to UL 94
Contact carrierTPU GF, HB according to UL 94
Male contact/Female contactCuZn, pre-nickel and gold-plated
Knurled screw/Knurled nutCuZn, nickel-plated
O-ringFKM

Mechanical Data

Insertion force¹≤ 10 N
Withdrawal force¹≤ 15 N
Mating cycles≥ 100
Protection degree²IP67
Mating connectorsM12 male/female connector according to IEC 61076-2-101

Connected Cable³

Cable jacketPUR
Cable no.910301 (4 x 0.34 mm²)
UL style20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹≤ 10 mΩ
Rated current at T_{amb} 40 °C4 A
Rated voltage⁴250 V AC/DC
Rated impulse voltage⁴2.50 kV
Material group⁴I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴3
Insulation resistance> 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1210 1205 04 301 2m	4	PUR, black	2

More pole numbers and cable lengths on request.

M12 · M8 1210 0800 ... 3...

Actuator/sensor cordset **PUR**

Double-ended with male and female connectors

Threaded joint, IP67

 [under preparation]

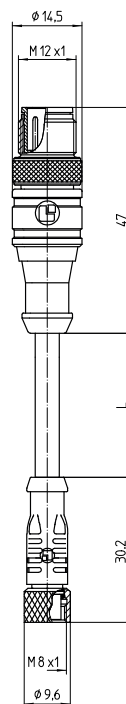


M12/M8 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight, A-coded

Cable end 2: M8 female connector, straight, A-coded

Cable: PUR, black



Pin Arrangement

3 poles, male

3 poles, female



1 = brown
3 = blue
4 = black



1210 0800 ... 3...

M12 · M8

Ambient Conditions

Temperature Range

-25 °C/+80 °C

Materials

Connector body

TPU halogen-free, V-0 acc. to UL 94

Contact carrier

TPU GF, HB according to UL 94

Male contact/Female contact

CuZn, pre-nickel and gold-plated

Knurled screw/Knurled nut

CuZn, nickel-plated

O-ring

FKM

Mechanical Data

Insertion force¹

≤ 10 N **(1210)**, ≤ 23 N **(0800)**

Withdrawal force¹

≤ 15 N **(1210)**, ≤ 23 N **(0800)**

Mating cycles

≥ 100

Protection degree²

IP67

Mating connectors

M12 female connector according to IEC 61076-2-101 and M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket

PUR

Cable no.

910300 (3 x 0.34 mm²)

UL style

20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹

≤ 10 mΩ

Rated current at T_{amb} 40 °C

4 A

Rated voltage⁴

50 V AC/60 V DC

Rated impulse voltage⁴

1.50 kV

Material group⁴

I (IEC)/0 (UL) (CTI=600)

Pollution degree⁴

3

Insulation resistance

> 10⁸ Ω

¹ measured with a proper counterpart

² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529

³ specifications on page 44

⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
1210 0800 03 300 0.6m	3	PUR, black	0.6

More pole numbers and cable lengths on request.

M8

0810 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with male connector

Threaded joint, IP67

 [under preparation]



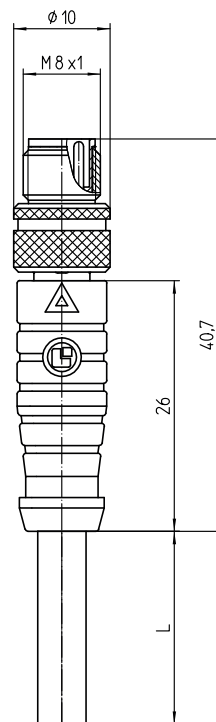
M8 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M8 male connector, straight,

A-coded

Cable end 2: blunt cut

Cable: PVC, black



Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



0810 ... 0...

M8

Temperature Range

Temperature Range -25 °C/+80 °C

Materials

Connector body PVC, HB according to UL 94
Contact carrier TPU GF, HB according to UL 94
Male contact CuZn, pre-nickel and gold-plated
Knurled screw CuZn, nickel-plated

Mechanical Data

Insertion force¹ ≤ 23 N
Withdrawal force¹ ≤ 23 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M8 female connector according to IEC 61076-2-104

Connected Cable³

Cable jacket PVC
Cable no. 910002 (4 x 0.34 mm²)
UL style 2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 50 V AC/60 V DC
Rated impulse voltage⁴ 1.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0810 04 002 2m	4	PVC, black	2
0810 04 002 5m	4	PVC, black	5

More pole numbers and cable lengths on request.

M8

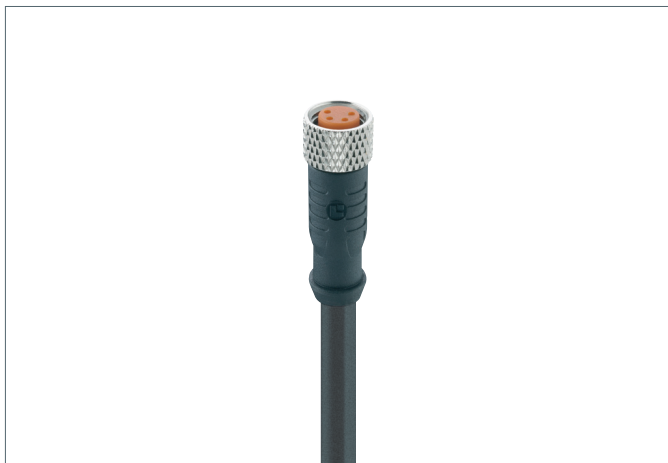
0800 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with female connector

Threaded joint, IP67

 [under preparation]

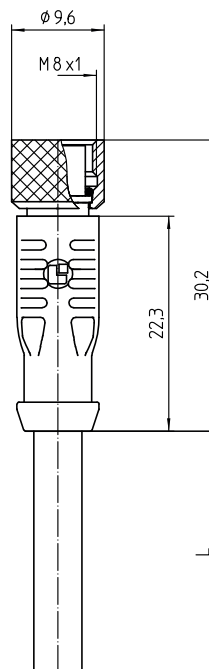


M8 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M8 female connector, straight,
A-coded

Cable end 2: blunt cut

Cable: PVC, black



Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



0800 ... 0...

M8

Temperature Range

Temperature Range	-25 °C/+80 °C
Materials	
Connector body	PVC, HB according to UL 94
Contact carrier	TPU GF, HB according to UL 94
Female contact	CuZn, pre-nickel and gold-plated
Knurled nut	CuZn, nickel-plated
O-ring	FKM

Mechanical Data

Insertion force ¹	≤ 23 N
Withdrawal force ¹	≤ 23 N
Mating cycles	≥ 100
Protection degree ²	IP65/IP67
Mating connectors	M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket	PVC
Cable no.	910002 (4 x 0.34 mm²)
UL style	2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	≤ 10 mΩ
Rated current at T _{amb} 40 °C	4 A
Rated voltage ⁴	50 V AC/60 V DC
Rated impulse voltage ⁴	1.50 kV
Material group ⁴	I (IEC)/0 (UL) (CTI=600)
Pollution degree ⁴	3
Insulation resistance	> 10 ⁸ Ω
¹ measured with a proper counterpart	
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529	
³ specifications on page 44	
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A	

Designation	Poles	Cable	Cable Lengths [L] in m
0800 04 002 2m	4	PVC, black	2
0800 04 002 5m	4	PVC, black	5
0800 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M8

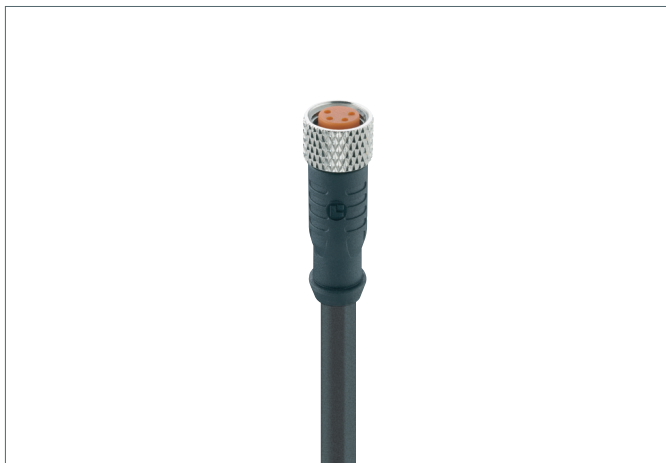
0800 ... 3...

Actuator/sensor cordset **PUR**

Single-ended with female connector

Threaded joint, IP67

 [under preparation]

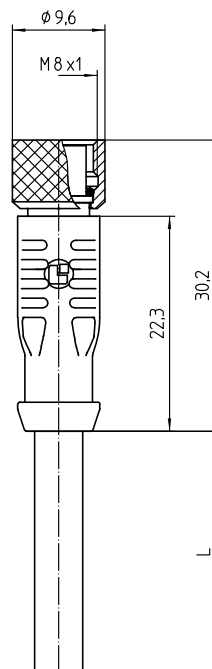


M8 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M8 female connector, straight,
A-coded

Cable end 2: blunt cut

Cable: PUR, black



Pin Arrangement

3 poles



1 = brown
3 = blue
4 = black

4 poles



1 = brown
2 = white
3 = blue
4 = black



0800 ... 3...

M8

Ambient Conditions

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 23 N
Withdrawal force¹ ≤ 23 N
Mating cycles ≥ 100
Protection degree² IP65/IP67
Mating connectors M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket PUR
Cable no. 910300 (3 x 0.34 mm²)
910301 (4 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 50 V AC/60 V DC
Rated impulse voltage⁴ 1.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0800 03 300 2m	3	PUR, black	2
0800 03 300 5m	3	PUR, black	5
0800 03 301 2m	4	PUR, black	2
0800 03 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M8

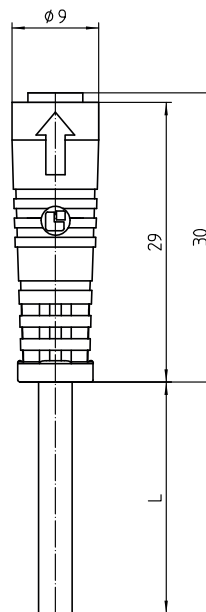
0800F1 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with female connector

Snap joint, IP65

 [under preparation]



M8 actuator/sensor cordset with overmolded connector, with snap joint, IP 65

Cable end 1: M8 female connector, straight, A-coded

Cable end 2: blunt cut

Cable: PVC, black

Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



Temperature Range

Temperature Range

-25 °C/+80 °C

Materials

Connector body

PVC, HB according to UL 94

Contact carrier

TPU GF, HB according to UL 94

Female contact

CuZn, pre-nickel and gold-plated

Mechanical Data

Insertion force¹

≤ 23 N

Withdrawal force¹

≤ 23 N

Mating cycles

≥ 100

Protection degree²

IP65

Mating connectors

M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket

PVC

Cable no.

910002 (4 x 0.34 mm²)

UL style

2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹

≤ 10 mΩ

Rated current at T_{amb} 40 °C

4 A

Rated voltage⁴

50 V AC/60 V DC

Rated impulse voltage⁴

1.50 kV

Material group⁴

I (IEC)/0 (UL) (CTI=600)

Pollution degree⁴

3

Insulation resistance

> 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0800F1 04 002 2m	4	PVC, black	2
0800F1 04 002 5m	4	PVC, black	5
0800F1 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M8

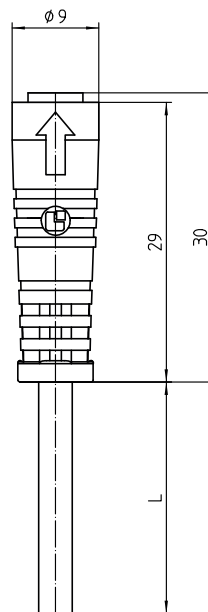
0800F1 ... 3...

Actuator/sensor cordset **PUR**

Single-ended with female connector

Snap joint, IP65

 [under preparation]



M8 actuator/sensor cordset with overmolded connector, with snap joint, IP 65

Cable end 1: M8 female connector, straight, A-coded

Cable end 2: blunt cut

Cable: PUR, black

Pin Arrangement

3 poles



1 = brown
3 = blue
4 = black

4 poles



1 = brown
2 = white
3 = blue
4 = black



0800F1 ... 3...

M8

Temperature Range

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Female contact CuZn, pre-nickel and gold-plated

Mechanical Data

Insertion force¹ ≤ 23 N
Withdrawal force¹ ≤ 23 N
Mating cycles ≥ 100
Protection degree² IP65
Mating connectors M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket PUR
Cable no. 910300 (3 x 0.34 mm²)
910301 (4 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 50 V AC/60 V DC
Rated impulse voltage⁴ 1.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0800F1 03 300 2m	3	PUR, black	2
0800F1 03 300 5m	3	PUR, black	5
0800F1 03 301 2m	4	PUR, black	2
0800F1 03 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M8

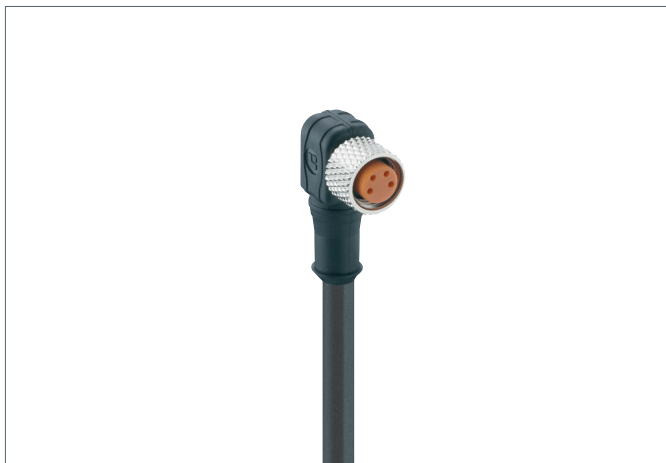
0805 ... 0...

Actuator/sensor cordset **PVC**

Single-ended with female connector

Threaded joint, IP67

 [under preparation]

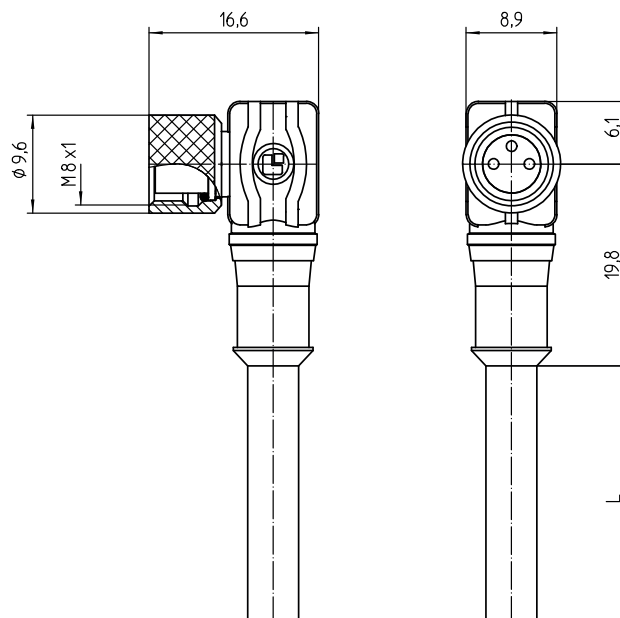


M8 actuator/sensor cordset with overmolded connector, with self-locking threaded joint, IP 67

Cable end 1: M8 female connector, angled,
A-coded

Cable end 2: blunt cut

Cable: PVC, black



Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



0805 ... 0...

M8

Ambient Conditions

Temperature Range	-25 °C/+80 °C
Connector body	PVC, HB according to UL 94
Contact carrier	TPU GF, HB according to UL 94
Female contact	CuZn, pre-nickel and gold-plated
Knurled nut	CuZn, nickel-plated
O-ring	FKM

Materials

Mechanical Data

Insertion force ¹	≤ 23 N
Withdrawal force ¹	≤ 23 N
Mating cycles	≥ 100
Protection degree ²	IP67
Mating connectors	M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket	PVC
Cable no.	910002 (4 x 0.34 mm²)
UL style	2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	≤ 10 mΩ
Rated current at T _{amb} 40 °C	4 A
Rated voltage ⁴	50 V AC/60 V DC
Rated impulse voltage ⁴	1.50 kV
Material group ⁴	I (IEC)/0 (UL) (CTI=600)
Pollution degree ⁴	3
Insulation resistance	> 10 ⁸ Ω
¹ measured with a proper counterpart	
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529	
³ specifications on page 44	
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A	

Designation	Poles	Cable	Cable Lengths [L] in m
0805 04 002 2m	4	PVC, black	2
0805 04 002 5m	4	PVC, black	5
0805 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M8

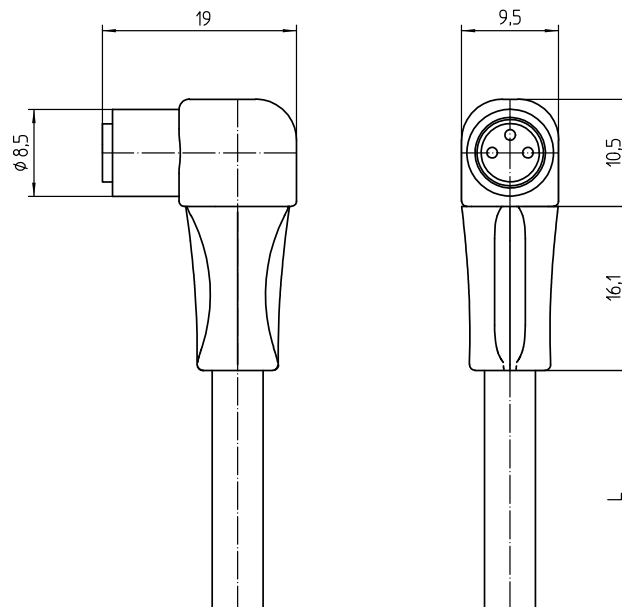
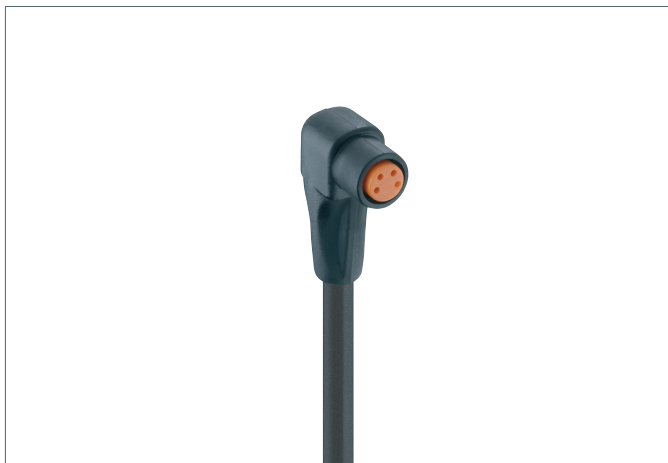
0805F1... 0...

Actuator/sensor cordset **PVC**

Single-ended with female connector

Snap joint, IP65

 [under preparation]



M8 actuator/sensor cordset with overmolded connector, with snap joint, IP 65

Cable end 1: M8 female connector, angled,
A-coded

Cable end 2: blunt cut

Cable: PVC, black

Pin Arrangement

4 poles



1 = brown

2 = white

3 = blue

4 = black



Ambient Conditions

Temperature Range	-25 °C/+80 °C
Connector body	PVC, HB according to UL 94
Contact carrier	TPU GF, HB according to UL 94
Female contact	CuZn, pre-nickel and gold-plated

Materials

Mechanical Data

Insertion force ¹	≤ 23 N
Withdrawal force ¹	≤ 23 N
Mating cycles	≥ 100
Protection degree ²	IP65
Mating connectors	M8 male connector according to IEC 61076-2-104

Connected Cable³

Cable jacket	PVC
Cable no.	910002 (4 x 0.34 mm ²)
UL style	2464

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	≤ 10 mΩ
Rated current at T _{amb} 40 °C	4 A
Rated voltage ⁴	50 V AC/60 V DC
Rated impulse voltage ⁴	1.50 kV
Material group ⁴	I (IEC)/0 (UL) (CTI=600)
Pollution degree ⁴	3
Insulation resistance	> 10 ⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0805F1 04 002 2m	4	PVC, black	2
0805F1 04 002 5m	4	PVC, black	5
0805F1 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M8

0810 0800 ... 3...

Actuator/sensor cordset **PUR**

Double-ended with male and female connectors

Threaded joint, IP67

 [under preparation]

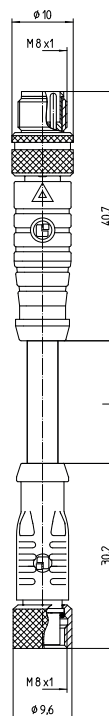


M8 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M8 male connector, straight, A-coded

Cable end 2: M8 female connector, straight, A-coded

Cable: PUR, black



Pin Arrangement

4 poles, male

4 poles, female



- 1 = brown
- 2 = white
- 3 = blue
- 4 = black



0810 0800 ... 3...

M8

Ambient Conditions

Temperature Range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Male contact/Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 23 N
Withdrawal force¹ ≤ 23 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M8 male/female connector according to IEC 61076-2-104

Connected Cable³

Cable jacket PUR
Cable no. 910301 (4 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 50 V AC/60 V DC
Rated impulse voltage⁴ 1.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0810 0800 04 301 0.6m	4	PUR, black	0.6
0810 0800 04 301 1.5m	4	PUR, black	1.5
0810 0800 04 301 2m	4	PUR, black	2
0810 0800 04 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M8

0810 0805 ... 3...

Actuator/sensor cordset **PUR**

Double-ended with male and female connectors

Threaded joint, IP67

 [under preparation]

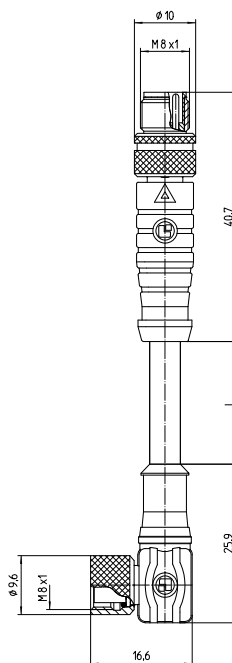


M8 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M8 male connector, straight, A-coded

Cable end 2: M8 female connector, angled, A-coded

Cable: PUR, black



Pin Arrangement

4 poles, male

4 poles, female



- 1 = brown
- 2 = white
- 3 = blue
- 4 = black



0810 0805 ... 3...

M8

Temperature Range

Temperature range -25 °C/+80 °C

Materials

Connector body TPU halogen-free, V-0 acc. to UL 94
Contact carrier TPU GF, HB according to UL 94
Male contact/Female contact CuZn, pre-nickel and gold-plated
Knurled nut CuZn, nickel-plated
O-ring FKM

Mechanical Data

Insertion force¹ ≤ 23 N
Withdrawal force¹ ≤ 23 N
Mating cycles ≥ 100
Protection degree² IP67
Mating connectors M8 male/female connector according to IEC 61076-2-104

Connected Cable³

Cable jacket PUR
Cable no. 910301 (4 x 0.34 mm²)
UL style 20549

Electrical Data (at T_{amb} 20 °C)

Contact resistance¹ ≤ 10 mΩ
Rated current at T_{amb} 40 °C 4 A
Rated voltage⁴ 50 V AC/60 V DC
Rated impulse voltage⁴ 1.50 kV
Material group⁴ I (IEC)/0 (UL) (CTI=600)
Pollution degree⁴ 3
Insulation resistance > 10⁸ Ω

¹ measured with a proper counterpart
² in mated and locked condition with a proper counterpart, IP-data according IEC 60529/DIN EN 60529
³ specifications on page 44
⁴ according IEC 60664/DIN EN 60664, CTI UL classification according ANSI/UL 746A

Designation	Poles	Cable	Cable Lengths [L] in m
0810 0805 04 301 0.6m	4	PUR, black	0.6
0810 0805 04 301 1.5m	4	PUR, black	1.5
0810 0805 04 301 2m	4	PUR, black	2
0810 0805 04 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

Cable Specifications

Code	Cable No.	Cable Type	UL Style	Approvals	Construction			
						A = Conductor B = Insulation C = Jacket D = Wrapping	Single Core	
							Conductor Construction	Surface
001	910001	LiYY	2464	cULus			42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank
002	910002	LiYY	2464	cULus			42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank
003	910003	LiYY	2464	cULus			42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank
004	910004	LiYY	2464	cULus			32 x 0.10 mm = 0.25 mm ² (AWG 24)	blank
300	910300	Li9YH-11YH	20549	cULus			42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank
301	910301	Li9YH-11YH	20549	cULus			42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank
302	910301	Li9YH-11YH	20549	cULus			42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank
303	910303	Li9YH-11YH	20549	cULus			32 x 0.10 mm = 0.25 mm ² (AWG 24)	blank



	Construction								Remarks	Code
	Single Core			Shielding	Jacket					
	Insulation									
	Material	Ø	Colors		Material	Ø	Surface	Color		
	PVC	1.50 ±0.05 mm	blue/black/brown	-	PVC	5.00 ±0.2 mm	matt	black RAL 9005		001
	PVC	1.50 ±0.05 mm	blue/black/brown/white	-	PVC	5.20 ±0.2 mm	matt	black RAL 9005		002
	PVC	1.50 ±0.05 mm	brown/white/blue/black/grey	-	PVC	5.70 ±0.2 mm	matt	black RAL 9005		003
	PVC	1.30 ±0.05 mm	white/brown/green/yellow/ grey/pink/blue/red	-	PVC	6.00 ±0.2 mm	matt	black RAL 9005		004
	PP	1.30 ±0.05 mm	blue/black/brown	-	PUR	4.30 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	300
	PP	1.30 ±0.05 mm	blue/black/brown/white	-	PUR	4.70 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	301
	PP	1.30 ±0.05 mm	brown/white/blue/black/grey	-	PUR	5.70 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	302
	PP	1.17 ±0.05 mm	white/brown/green/yellow/ grey/pink/blue/red	-	PUR	6.00 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	303

Wire sections

For an easy orientation this table matches American Wire Gauge (AWG) values with the wire section in square millimeters.

AWG	Metric Equivalent (mm ²)
16	1,50
18	1,00
20	0,75
21	0,50
22	0,34
24	0,25
26	0,14

IMPORTANT NOTICES

Lutronic products can be used according to the characteristics specified in the data sheet. Beyond that, all applicable regulations, standards and directives for the use of these products and for the intended application must be obeyed by the user. It is the user's responsibility to ensure the appropriateness of a chosen Lutronic product for the intended application.

Due to continuous development of Lutronic products, serving technical progress, the descriptions and data provided herein are for information only and subject to change without notice.

We will be pleased to discuss detailed requirements.

INTERNATIONAL PROTECTION CLASSES ACCORDING TO DIN EN 60529 (IEC 529/VDE 047 T1)

Schutzarten

CODE LETTERS
(International
Protection)

FIRST INDEX FIGURE
(foreign bodies protection)

SECOND INDEX FIGURE
(water protection)

IP

6

8

INDEX	DEGREE OF PROTECTION
0	No protection against accidental contact, no protection against solid foreign bodies
1	Protection against contact with any large area by hand and against solid foreign bodies with $\varnothing > 50 \text{ mm}$
2	Protection against contact with the fingers, protection against solid foreign bodies with $\varnothing > 12 \text{ mm}$
3	Protection against tools, wires or similar objects with $\varnothing > 2.5 \text{ mm}$, protection against solid foreign bodies with $\varnothing > 2.5 \text{ mm}$
4	As 3, however $\varnothing > 1 \text{ mm}$
5	Full protection against contact, protection against interior injurious dust deposits
6	Total protection against contact, protection against penetration of dust

INDEX	DEGREE OF PROTECTION
0	No protection against water
1	Protection against vertical water drips
2	Protection against diagonal water drips (up to a 15° angle)
3	Protection against diagonal water drips (up to a 60° angle)
4	Protection against water (out of a nozzle) from all directions
5	Full protection against contact, protection against interior injurious dust deposits
6	Protection against ingress of water in case of temporary flooding
7	Protection against ingress of water in case of temporary immersion
8	Protection against ingress of water in case of continuous immersion, requirements under agreement of user and manufacturer
9	Protected against close-range high pressure, high temperature spray downs

Diagram in accordance with DIN VDE 470-1, DIN EN 60529, IEC 60529

www.lutronic.biz · sales@lutronic.biz