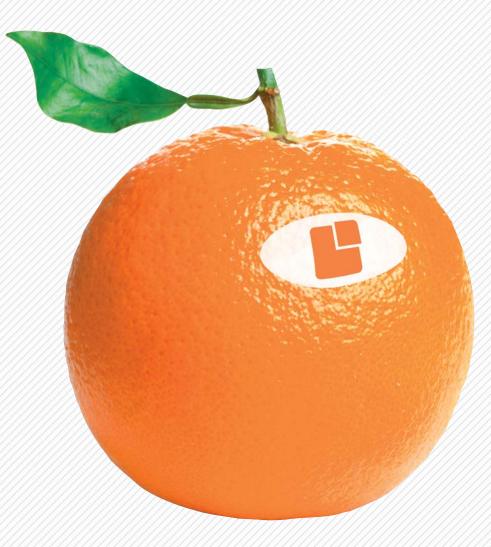


passion for connections



Compact Catalog

Fresh thinking creates this world.



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.





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.



M8 and M12 Actuaror/Sensor Cordsets

Page 9



M8 and M12 Panel Mount Connectors

Page 65



M8 and M12 Passive Distribution Boxes

Page 83



High Power LED Lights

Page 115

L



passion for connections



Actuator/Sensor Cordsets

M12 1210 ... 0...

Actuator/sensor cordset PVC Single-ended with male connector Threaded joint, IP 67



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 Assignment

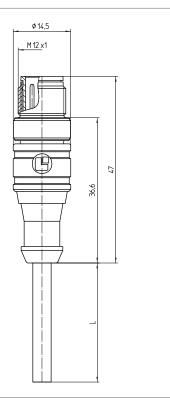
4 pole



1 = brown

2 = white

3 = blue 4 = black



c Us

1210 ... 0...

M12

Ambient Conditions Electrical Data (at T_{amb} 20 °C) Contact resistance¹ **Temperature Range** -25 °C/+80 °C < 10 mORated current at T_{amb} 40 °C 4 A Materials 250 V AC/DC Rated voltage Insulating body Rated impulse voltage TPU GF, HB according to UL 94 2.50 kV Contact pin CuZn, pre-nickel and gold-plated Material group I (IEC)/0 (UL) (CTI=600) 3 Overmolding/handle PVC, HB according to UL 94 Pollution degree Knurled screw CuZn, nickel-plated Insulation resistance $> 100 M\Omega$ measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate Mechanical Data Insertion force¹ $\leq 10 \text{ N}$ counterpart ³ specifications on page 125 Withdrawal force¹ \leq 15 N Mating cycles ≥100 Protection degree² IP67 Mating connectors M12 female connectors according to IEC 61076-2-101 Connected Cable³ Cable jacket PVC Cable no. 910002 (4 x 0.34 mm²) UL style 2464

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



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 Assignment

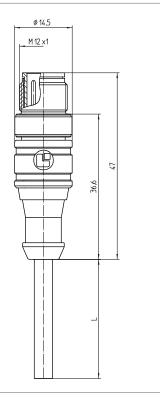
4 pole



1 = brown

2 = white

3 = blue 4 = black



c S Us

1210 ... 3...

M12

Ambient Conditions		Electrical Data (at T 200	
		Electrical Data (at T _{amb} 20	
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 mΩ
Materials		Rated current at T _{amb} 40 °C	4 A
		Rated voltage	250 V AC/DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	2.50 kV
Contact pin	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	TPU, halogen-free	Pollution degree	3
Knurled screw	CuZn, nickel-plated	Insulation resistance	> 100 MΩ
Mechanical Data Insertion force ¹ Withdrawal force ¹ Mating cycles Protection degree ² Mating connectors	\leq 10 N \leq 15 N \geq 100 IP67 M12 female connectors according to IEC 61076-2-101	 ¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only counterpart ³ specifications on page 125 	in locked condition with an appropriate
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910301 (4 x 0.34 mm ²)		
UL style	20549		
-			

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

c Us



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

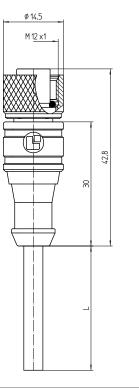
Pin Assignment

4 pole



1 = brown

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



1200 ... 0...

M12

Temperature Range		Electrical Data (at T _{amb} 20 °	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	250 V AC/DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	2.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	PVC, HB according to UL 94	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	>100 MΩ
Seal	FKM	1 1 11	
		¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in according to IEC DIN EN 60529.	in locked condition with an appropriate
Mechanical Data		counterpart	
Insertion force ¹	\leq 10 N	³ specifications on page 125	
Withdrawal force ¹	\leq 15 N		
Mating cycles	≥ 100		
Protection degree ²	IP67		
Mating connectors	M12 male connectors according to		
	IEC 61076-2-101		
Commente d Calda ³			
Connected Cable ³			
Cable jacket	PVC		
Cable no.	910002 (4 x 0.34 mm ²)		
UL style	2464		

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

c C Us

42,8

R

ø 14,5 M 12 x1



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 Assignment

4 pole



1 = brown

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



1200 ... 3...

M12

Temperature Range		Electrical Data (at $T_{_{amb}}$ 20 °	C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
Materials		Rated current at T_{amb} 40 °C	4 A
Insulating body	TPU GF, HB according to UL 94	Rated voltage	250 V AC/DC
Contact bush	CuZn, pre-nickel and gold-plated	Rated impulse voltage	2.50 kV
Overmolding/handle	TPU, halogen-free	Material group	I (IEC)/0 (UL) (CTI=600)
Knurled nut	CuZn, nickel-plated	Pollution degree	3
Seal	FKM	Insulation resistance	>100 MΩ
Mechanical Data Insertion force ¹ Withdrawal force ¹ Mating cycles Protection degree ² Mating connectors	 ≤ 10 N ≤ 15 N ≥ 100 IP67 M12 male connectors according to IEC 61076-2-101 	 ¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only ir counterpart ³ specifications on page 125 	n locked condition with an appropriate
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910301 (4 x 0.34 mm ²)		
UL style	20549		

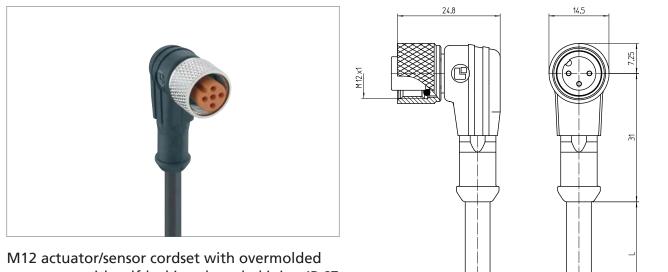
Designation	Poles	Cable	Cable Lengths [L] in m
1200 04 301 1m	4	PUR, black	1
1200 04 301 2m	4	PUR, black	2
1200 04 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M12 1205 ... 0...

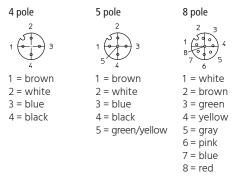
Actuator/sensor cordset **PVC** Single-ended with female connector Threaded joint, IP67

c**e u**s



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 Assignment



M12

Temperature Range		Electrical Data (at T _{amb} 20 ^o	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A (4 to 5 pole)
Materials			2 A (8 pole)
Insulating body	TPU GF, HB according to UL 94	Rated voltage	250 V AC/DC (4 pole)
Contact bush	CuZn, pre-nickel and gold-plated		60 V AC/DC (5 pole)
Overmolding/handle	PVC, HB according to UL 94		30 V AC/DC (8 pole)
Knurled nut	CuZn, nickel-plated	Rated impulse voltage	2.50 kV (4 pole)
Seal	FKM		1.50 kV (5 pole)
			0.80 kV (8 pole)
Mechanical Data		Material group	I (IEC)/0 (UL) (CTI=600)
Insertion force ¹	\leq 10 N (4 to 5 pole)	Pollution degree	3
	≤ 23 N (8 pole)	Insulation resistance	> 100 MΩ
Withdrawal force ¹	\leq 15 N (4 to 5 pole)		
	≤ 30 N (8 pole)	¹ measured with a proper counterpart ² according to JEC DIN EN 60529, only	in locked condition with an appropriate
Mating cycles	≥ 100	counterpart	in locked condition with an appropriate
Protection degree ²	IP67	³ specifications on page 125	
Mating connectors	M12 male connectors according to		
	IEC 61076-2-101		
Connected Cable ³			
Cable jacket Cable no.	PVC		
Cable no.	910002 (4 x 0.34 mm ²)		
	910003 (5 x 0.34 mm ²)		
111 - 4-1-	910004 (8 x 0.34 mm ²)		
UL style	2464		

1205 ... 0...

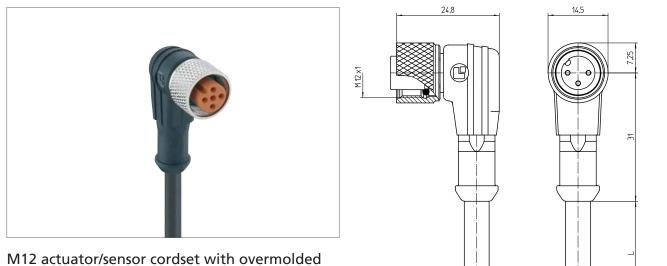
Designation	Poles	Cable	Cable Lengths [L] in m
1205 04 002 2m	4	PVC, black	2
1205 04 002 5m	4	PVC, black	5
1205 04 002 10m	4	PVC, black	10
1205 05 003 2m	5	PVC, black	2
1205 05 003 5m	5	PVC, black	5
1205 08 004 2m	8	PVC, black	2
1205 08 004 5m	8	PVC, black	5

More pole numbers and cable lengths on request.

M12 1205 ... 3...

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

c**Al**us



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 Assignment

5				
4 pole	5 pole	8 pole	12 pole	
2 1 () ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	2 1 () 3	$\begin{array}{c} 2 \\ 1 \\ 8 \\ \hline 0 \\ 8 \\ \hline 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	10 0 0 4 1 0 0 0 11 2 0 0 0 11 5	
4	5 4	7 5 6	8 12 7 6	0
1 = brown 2 = white	1 = brown 2 = white	1 = white 2 = brown	1 = brown 2 = blue	9 = red 10 = violet
3 = blue	3 = blue	3 = green	3 = white	11 = gray/pink
4 = black	4 = black	4 = yellow	4 = green	12 = red/blue
	5 = green/yellow	5 = gray	5 = pink	
		6 = pink 7 = blue	6 = yellow 7 = black	
		7 = blue 8 = red	8 = gray	
			- 5.49	

1205 ... 3...

M12

Ambient Conditions		Electrical Data (at T _{amb} 20 °	C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A (4 to 5 pole)
Materials			2 A (8 pole)
Insulating body	TPU GF, HB according to UL 94		1.5 A (12 pole)
Contact bush	CuZn, pre-nickel and gold-plated	Rated voltage	250 V AC/DC (4 pole)
Overmolding/handle	TPU, halogen-free		60 V AC/DC (5 pole)
Knurled nut	CuZn, nickel-plated		30 V AC/DC (8 and 12 pole)
Seal	FKM	Rated impulse voltage	2.50 kV (4 pole)
			1.50 kV (5 pole)
Mechanical Data			0.80 kV (8 pole)
Insertion force ¹	\leq 10 N (4 to 5 pole)		0.50 kV (12 pole)
	≤ 23 N (8 pole)	Material group	I (IEC)/0 (UL) (CTI=600)
Withdrawal force ¹	\leq 15 N (4 to 5 pole)	Pollution degree	3
	≤ 30 N (8 pole)	Insulation resistance	> 100 MΩ
Mating cycles	≥ 100	1 1 11	
Protection degree ²	IP67	¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only ir	locked condition with an appropriate
Mating connectors	M12 male connectors according to	counterpart	riocked condition with an appropriate
	IEC 61076-2-101	³ specifications on page 125	
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910301 (4 x 0.34 mm ²)		
cubic no.	910302 (5 x 0.34 mm ²)		
	910303 (8 x 0.25 mm ²)		
	910315 (12 x 0.25 mm ²)		
	510515 (12 × 0.25 mm)		

UL style

20549

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
1205 12 315 5m	12	PUR, black	5

More pole numbers and cable lengths on request.

M12 1206 ... L1 0...

Actuator/sensor cordset PVC, LED Single-ended with female connector Threaded joint, IP67

c**R**Us



Pin Assignment

3 pole



1 = brown

- 3 = blue
- 4 = black

1206 ... L1 0...

M12

Temperature Range		Electrical Data (at T _{amb} 20	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	10-30 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	2.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	PVC, HB according to UL 94	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	> 100 MΩ
Seal	FKM		
Mechanical Data Insertion force ¹ Withdrawal force ¹ Mating cycles Protection degree ² Mating connectors	\leq 10 N \leq 15 N \geq 100 IP67 M12 male connectors according to IEC 61076-2-101	 ¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only counterpart ³ specifications on page 125 	in locked condition with an appropriate
Connected Cable ³			
Cable jacket	PVC		
Cable no.	910001 (3 x 0.34 mm ²)		
UL style	2464		

Designation	Poles	Cable	Cable Lengths [L] in m
1206 03 L1 001 2m	3	PVC, black	2
1206 03 L1 001 5m	3	PVC, black	5

More pole numbers and cable lengths on request.

M12 1206 ... L1 3...

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

c**RL**us



Pin Assignment

3 pole



1 = brown

- 3 = blue
- 4 = black

1206 ... L1 3...

M12

Temperature Range		Electrical Data (at T _{amb} 20 ^o	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
1 5		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	10-30 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	2.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	TPU, halogen-free	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	> 100 MΩ
Seal Mechanical Data Insertion force ¹ Withdrawal force ¹ Mating cycles Protection degree ² Mating connectors	FKM $\leq 10 \text{ N}$ $\leq 15 \text{ N}$ ≥ 100 IP67 M12 male connectors according to IEC 61076-2-101	 ¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only i counterpart ³ specifications on page 125 	n locked condition with an appropriate
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910300 (3 x 0.34 mm ²)		
UL style	20549		

Designation	Poles	Cable	Cable Lengths [L] in m
1206 03 L1 300 2m	3	PUR, black	2
1206 03 L1 300 5m	3	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 connector Threaded joint, IP67

c us [pending]

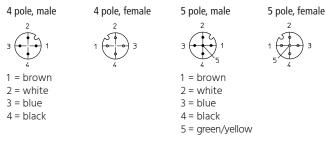


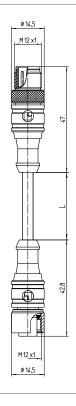
M12 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight, A-coded Cable end 2: M12 female connector, straight, A-coded

Cable: PVC, black

Pin Assignment





1210 1200 ... 0... M12

Electrical Data (at T_{amb} 20 °C) **Temperature Range** Temperature Range Contact resistance¹ -25 °C/+80 °C < 10 mORated current at T_{amb} 40 °C 4 A Materials Rated voltage 250 V AC/DC (4 pole) Insulating body TPU GF, HB according to UL 94 60 V AC/DC (5 pole) Contact bush/contact pin CuZn, pre-nickel and gold-plated Rated impulse voltage 2.50 kV (4 pole) Overmolding/handle PVC, HB according to UL 94 1.50 kV (5 pole) Knurled screw/Knurled nut CuZn, nickel-plated Material group I (IEC)/0 (UL) (CTI=600) Seal FKM Pollution degree 3 Insulation resistance $> 100 M\Omega$ Mechanical Data 1 measured with a proper counterpart 2 according to IEC DIN EN 60529, only in locked condition with an appropriate Insertion force¹ $\leq 10 \text{ N}$ Withdrawal force¹ \leq 15 N counterpart ³ specifications on page 125 Mating cycles ≥100 Protection degree² IP67 Mating connectors M12 male/female connectors 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

Designation	Poles	Cable	Cable Lengths [L] in m
1210 1200 04 002 0.6m	4	PVC, black	0.6
1210 1200 04 002 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 connector Threaded joint, IP67

c us [pending]

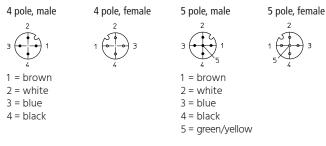


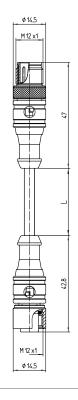
M12 actuator/sensor cordset with overmolded connectors, with self-locking threaded joint, IP 67

Cable end 1: M12 male connector, straight, A-coded Cable end 2: M12 female connector, straight, A-coded

Cable: PUR, black

Pin Assignment





1210 1200 ... 3... M12

		/ _	1
Ambient Conditions		Electrical Data (at T _{amb} 20	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	250 V AC/DC (4 pole)
Insulating body	TPU GF, HB according to UL 94		60 V AC/DC (5 pole)
Contact bush/contact pin	CuZn, pre-nickel and gold-plated	Rated impulse voltage	2.50 kV (4 pole)
Overmolding/handle	TPU, halogen-free		1.50 kV (5 pole)
Knurled screw/Knurled nut	CuZn, nickel-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Seal	FKM	Pollution degree	3
		Insulation resistance	>100 MΩ
Mechanical Data			
Insertion force ¹	≤ 10 N	¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only	in locked condition with an appropriate
Withdrawal force ¹	≤ 15 N	counterpart	
Mating cycles	≥ 100	³ specifications on page 125	
Protection degree ²	IP67		
Mating connectors	M12 male/female connectors accor-		
	ding to IEC 61076-2-101		
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910301 (4 x 0.34 mm ²)		
	910302 (5 x 0.34 mm ²)		
UL style	20549		
-			

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.

1210 1205 ... 3... M12

Actuator/sensor cordset PUR Double-ended with male and female connector Threaded joint, IP67

c Sus [pending]

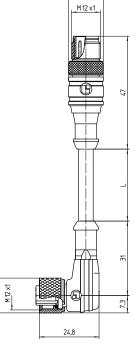


Cable end 2: M12 female connector, angled, A-coded Cable: PUR, black



4 pole, male 4 pole, female 1 = brown 2 = white 3 = blue

4 = black



ø 14,5

1210 1205 ... 3... M12

Temperature RangeTemperature RangeMaterialsInsulating bodyContact bush/contact pinOvermolding/handleKnurled screw/Knurled nutSealMechanical DataInsertion force ¹ Withdrawal force ¹ Mating cyclesProtection degree ² Mating connectorsConnected Cable ³ Cable jacketCable no.UL style	-25 °C/+80 °C TPU GF, HB according to UL 94 CuZn, pre-nickel and gold-plated TPU, halogen-free CuZn, nickel-plated FKM ≤ 10 N ≤ 15 N ≥ 100 IP67 M12 male/female connectors according to IEC 61076-2-101 PUR 910301 (4 x 0.34 mm ²) 20549	Electrical Data (at T _{amb} 20 ° Contact resistance ¹ Rated current at T _{amb} 40 °C Rated voltage Rated impulse voltage Material group Pollution degree Insulation resistance ¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in counterpart ³ specifications on page 125	\leq 10 mΩ 4 A 250 V AC/DC 2.50 kV I (IEC)/0 (UL) (CTI=600) 3 > 100 MΩ I locked condition with an appropriate
Designation			
J	Poles	Cable	Cable Lengths [L] in m

More pole numbers and cable lengths on request.

M12 1210 1206 ... L1 0...

Actuator/sensor cordset PVC, LED Double-ended with male and female connector Threaded joint, IP67

c us [pending]



A-coded

Cable end 2: M12 female connector, angled, with LED L1, A-coded

Cable: PVC, black

Pin Assignment

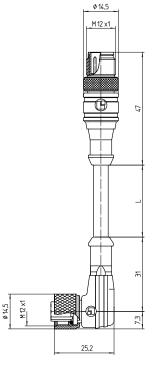
3 pole, male



4

1 = brown 3 = blue

4 = black



1210 1206	5 L1 0	M12
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Temperature Range

Temperature Range

Materials

Insulating body Contact bush/contact pin Overmolding/handle Knurled screw/Knurled nut Seal

Mechanical Data

Insertion force¹ Withdrawal force¹ Mating cycles Protection degree² Mating connectors

Connected Cable³

Cable jacket	PVC
Cable no.	910001 (3 x 0.34 mm ²)
UL style	2464

-25 °C/+80 °C

TPU GF, HB according to UL 94

PVC, HB according to UL 94

CuZn, nickel-plated

FKM

 $\leq 10 \text{ N}$

 \leq 15 N

≥100

IP67

CuZn, pre-nickel and gold-plated

M12 male/female connectors accor-

ding to IEC 61076-2-101

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	10-30 V DC
Rated impulse voltage	2.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	>100 MΩ

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

³ specifications on page 125

Designation	Poles	Cable	Cable Lengths [L] in m
1210 1206 03 L1 001 0,3m	3	PVC, black	0,3
1210 1206 03 L1 001 1m	3	PVC, black	1
1210 1206 03 L1 001 2m	3	PVC, black	2
1210 1206 03 L1 001 5m	3	PVC, black	5

More pole numbers and cable lengths on request.

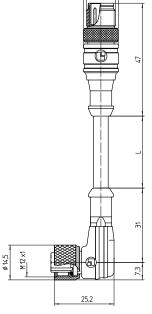
M12 1210 1206 ... L1 3...

Actuator/sensor cordset PUR, LED Double-ended with male and female connector Threaded joint, IP67

c us [pending]



Cable end 2: M12 female connector, angled, with LED L1, A-coded



Ø 14,5 M 12 ×1

Cable: PUR, black

Pin Assignment

3 pole, male

3 pole, female

4

1 = brown

3 = blue 4 = black

4 = DIACK

1210 1206 ... L1 3... M12

Temperature Range

Temperature Range

Materials

Insulating body Contact bush/contact pin Overmolding/handle Knurled screw/Knurled nut Seal

Mechanical Data

Insertion force¹ Withdrawal force¹ Mating cycles Protection degree² Mating connectors

Connected Cable³

Cable jacket	PUR
Cable no.	910300 (3 x 0.34 mm ²)
UL style	20549

-25 °C/+80 °C

TPU GF, HB according to UL 94 CuZn, pre-nickel and gold-plated TPU, halogen-free CuZn, nickel-plated FKM

$\leq 10 \text{ N}$ \leq 15 N ≥100 IP67 M12 male/female connectors according to IEC 61076-2-101

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	10-30 V DC
Rated impulse voltage	2.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	$>$ 100 M Ω

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

³ specifications on page 125

Designation	Poles	Cable	Cable Lengths [L] in m
1210 1206 03 L1 300 0,3m	3	PUR, black	0,3
1210 1206 03 L1 300 1m	3	PUR, black	1
1210 1206 03 L1 300 2m	3	PUR, black	2
1210 1206 03 L1 300 5m	3	PUR, black	5

More pole numbers and cable lengths on request.

M12·M8 1210 0800 ... 3...

Actuator/sensor cordset PUR Double-ended with male and female connector Threaded joint, IP67

c us [pending]

Ø 14,5 M 12 x1

30,2

M8<u>x1</u> Ø9,6



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 Assignment

3 pole, male

3 pole, female



- 1 = brown 3 = blue
- 3 = blue4 = black
- 4 = DIACK



Ambient Conditions Electrical Data (at T_{amb} 20 °C) **Temperature Range** -25 °C/+80 °C Contact resistance < 10 mORated current at T_{amb} 40 °C 4 A Materials 50 V AC/60 V DC Rated voltage Insulating body TPU GF, HB according to UL 94 Rated impulse voltage 1.50 kV Contact bush/contact pin CuZn, pre-nickel and gold-plated Material group I (IEC)/0 (UL) (CTI=600) 3 Overmolding/handle TPU, halogen-free Pollution degree Knurled screw/Knurled nut CuZn, nickel-plated Insulation resistance $> 100 M\Omega$ Seal FKM measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate Mechanical Data counterpart specifications on page 125 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 connectors according to IEC 61076-2-101 and M8 male connectors according to IEC 61076-2-104 Connected Cable² Cable iacket PUR Cable no. 910300 (3 x 0.34 mm²) UL style 20549 Poles Cable Cable Lengths [L] in m Designation 1210 0800 03 300 0.6m 3 PUR, black 0.6

More pole numbers and cable lengths on request.

M12·M8 1210 0806 ... L1 3...

Actuator/sensor cordset PUR, LED Double-ended with male and female connector Threaded joint, IP67

c us [pending]



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: M8 female connector, angled, with LED L1, A-coded

Cable: PUR, black

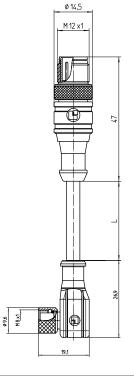
Pin Assignment

3 pole, male



3 pole, female

- 4
- 1 = brown 3 = blue
- 3 = blue 4 = black
- 4 DIACK



1210 0806 ... L1 3... M12 · M8

Temperature Range

Temperature Range

Materials

Insulating body Contact bush/contact pin Overmolding/handle Knurled screw/Knurled nut Seal

Mechanical Data

Insertion force¹ Withdrawal force¹ Mating cycles Protection degree² Mating connectors

Connected Cable³

Cable jacket	PUR
Cable no.	910300 (3 x 0.34 mm ²)
UL style	20549

-25 °C/+80 °C

TPU, halogen-free

FKM

≥100

IP67

CuZn, nickel-plated

TPU GF, HB according to UL 94

≤ 10 N **(1210)**, ≤ 23 N **(0800)**

≤ 15 N **(1210)**, ≤ 23 N **(0800)**

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

CuZn, pre-nickel and gold-plated

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	10-30 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	$>$ 100 M Ω

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

specifications on page 125

Designation	Poles	Cable	Cable Lengths [L] in m
1210 0806 03 L1 300 0,3m	3	PUR, black	0,3
1210 0806 03 L1 300 1m	3	PUR, black	1
1210 0806 03 L1 300 2m	3	PUR, black	2
1210 0806 03 L1 300 5m	3	PUR, black	5

More pole numbers and cable lengths on request.

M8 0810 ... 0...

Actuator/sensor cordset PVC Single-ended with male connector Threaded joint, IP67



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 Assignment

4 pole



1 = brown

2 = white

3 = blue

4 = black

c Sus [pending]

M8

0810 ... 0...

Temperature Range Electrical Data (at T_{amb} 20 °C) Temperature Range Contact resistance¹ -25 °C/+80 °C < 10 mORated current at T_{amb} 40 °C 4 A Materials Rated voltage 50 V AC/60 V DC Insulating body Rated impulse voltage TPU GF, HB according to UL 94 1.50 kV Contact pin CuZn, pre-nickel and gold-plated Material group I (IEC)/0 (UL) (CTI=600) 3 Overmolding/handle PVC, HB according to UL 94 Pollution degree Knurled screw CuZn, nickel-plated Insulation resistance $> 100 M\Omega$ measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate Mechanical Data Insertion force¹ \leq 23 N counterpart ³ specifications on page 125 Withdrawal force1 \leq 23 N Mating cycles ≥100 Protection degree² IP67 Mating connectors M8 female connectors according to IEC 61076-2-104 Connected Cable³ Cable jacket PVC Cable no. 910002 (4 x 0.34 mm²) UL style 2464

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

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

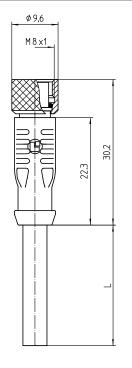
Pin Assignment

4 pole



1 = brown

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



c us [pending]

M8

Electrical Data (at T_{amb} 20 °C) **Temperature Range** Temperature Range Contact resistance¹ -25 °C/+80 °C < 10 mORated current at T_{amb} 40 °C 4 A Materials 50 V AC/60 V DC Rated voltage Insulating body Rated impulse voltage TPU GF, HB according to UL 94 1.50 kV Contact bush CuZn, pre-nickel and gold-plated Material group I (IEC)/0 (UL) (CTI=600) 3 Overmolding/handle PVC, HB according to UL 94 Pollution degree Knurled nut CuZn, nickel-plated Insulation resistance $> 100 M\Omega$ Seal FKM measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate Mechanical Data counterpart ³ specifications on page 125 Insertion force¹ \leq 23 N Withdrawal force¹ \leq 23 N Mating cycles ≥100 Protection degree² IP67 Mating connectors M8 male connectors according to IEC 61076-2-104 Connected Cable³ Cable jacket PVC Cable no. 910002 (4 x 0.34 mm²) UL style 2464

0800 ... 0....

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...

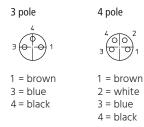
Actuator/sensor cordset PUR Single-ended with female connector Threaded joint, IP67

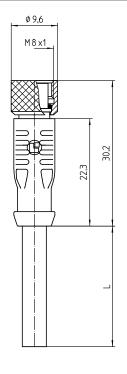
c us [pending]



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 Assignment





0800 ... 3...

Ambient Conditions		Electrical Data (at T _{amb} 20	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
. 2		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	50 V AC/60 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	1.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	TPU, halogen-free	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	> 100 MΩ
Seal	FKM		
		¹ measured with a proper counterpart ² according to JEC DIN EN 60529, only	in locked condition with an appropriate
Mechanical Data		counterpart	in locked condition with an appropriate
Insertion force ¹	\leq 23 N	³ specifications on page 125	
Withdrawal force ¹	\leq 23 N		
Mating cycles	≥ 100		
Protection degree ²	IP67		
Mating connectors	M8 male connectors according to		
	IEC 61076-2-104		
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910300 (3 x 0.34 mm ²)		
	910301 (4 x 0.34 mm ²)		
UL style	20549		

3	PUR, black	2
3	PUR, black	5
4	PUR, black	2
4	PUR, black	5
	3 3 4 4	3 PUR, black 4 PUR, black

More pole numbers and cable lengths on request.

M8 0800F1 ... 0...

Actuator/sensor cordset **PVC** Single-ended with female connector Snap joint, IP65

c us [pending]



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 Assignment

4 pole

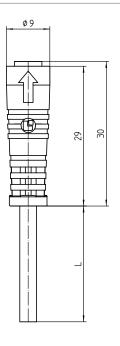


1 = brown

2 = white

3 = blue

4 = black



M8

0800F1 ... 0...

Electrical Data (at T , 20 °C)

amb	-,
Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	50 V AC/60 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	>100 MΩ

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart ³ specifications on page 125

Temperature Range

Temperature Range

Materials

Insulating body Contact bush Overmolding/handle

Mechanical Data

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

-25 °C/+80 °C

TPU GF, HB according to UL 94

PVC, HB according to UL 94

CuZn, pre-nickel and gold-plated

Connected Cable³

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

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...

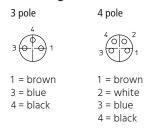
Actuator/sensor cordset **PUR** Single-ended with female connector Snap joint, IP65

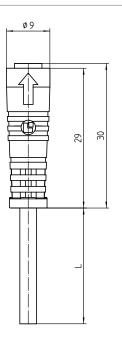
c us [pending]



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 Assignment





0800F1 ... 3...

Temperature Range Temperature Range	-25 °C/+80 °C	Electrical Data (at T _{amb} 20 ° Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	50 V AC/60 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	1.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	TPU, halogen-free	Pollution degree	3
		Insulation resistance	>100 MΩ
Mechanical Data			
Insertion force ¹	≤ 23 N	¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only ir	locked condition with an appropriate
Withdrawal force ¹	≤ 23 N	counterpart	rice condition with an appropriate
Mating cycles	≥ 100	³ specifications on page 125	
Protection degree ²	IP65		
Mating connectors	M8 male connectors according to		
-	IEC 61076-2-104		
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910300 (3 x 0.34 mm ²)		
	910301 (4 x 0.34 mm²)		
UL style	20549		

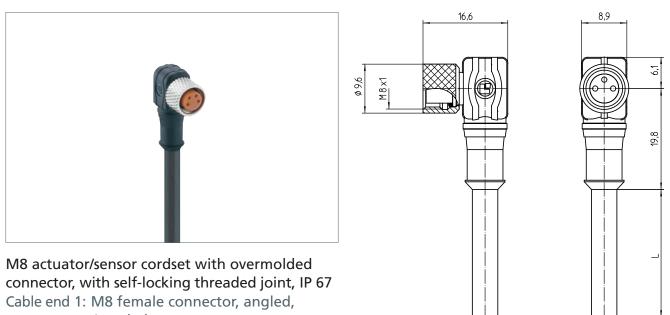
Designation	Poles	Cable	Cable Lengths [L] in m
0800F1 03 300 2m	3	PUR, black	2
0800F1 03 300 5m	3	PUR, black	5
0800F1 04 301 2m	4	PUR, black	2
0800F1 04 301 5m	4	PUR, black	5

More pole numbers and cable lengths on request.

M8 0805 ... 0...

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

c Sus [pending]



A-coded Cable end 2: blunt cut Cable: PVC, black

Pin Assignment

4 pole



1 = brown

2 = white

3 = blue

4 = black

M8

Ambient Conditions		Electrical Data (at T _{amb} 20 ^o	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	50 V AC/60 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	1.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	PVC, HB according to UL 94	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	>100 MΩ
Seal	FKM		
Mechanical Data Insertion force ¹ Withdrawal force ¹ Mating cycles Protection degree ² Mating connectors	\leq 23 N \leq 23 N \geq 100 IP67 M8 male connectors according to IEC 61076-2-104	² according to IEC DIN EN 60529, only i counterpart ³ specifications on page 125	in locked condition with an appropriate
Connected Cable ³			
Cable jacket	PVC		
Cable no.	910002 (4 x 0.34 mm ²)		
UL style	2464		

0805 ... 0...

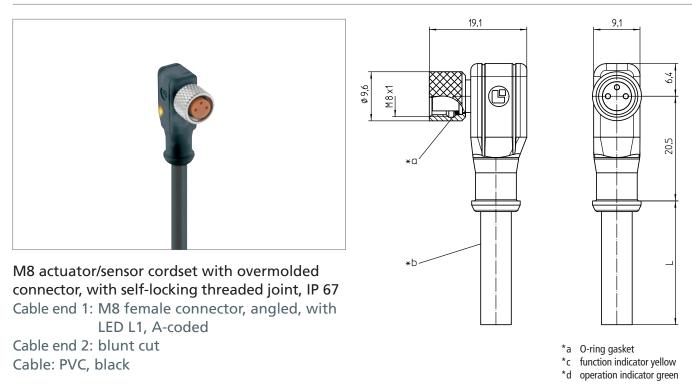
Designation	Poles	Cable	Cable Lengths [L] in m
0805 04 002 2m	4	PVC, black	2
0805 04 002 5m	4	PVC, black	5
0805 04 002 10m	4	PVC, black	10

More pole numbers and cable lengths on request.

M8 0806 ... L1 0...

Actuator/sensor cordset PVC, LED Single-ended with female connector Threaded joint, IP67

c us [pending]



Pin Assignment

3 pole



1 = brown

- 3 = blue
- 4 = black

0806 ... L1 0...

M8

Angleiant Canalitiana		Electrical Data (at T 200	
Ambient Conditions		Electrical Data (at T _{amb} 20 °	
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
N		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	10-30 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	1.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	PVC, HB according to UL 94	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	> 100 MΩ
Seal	FKM		
		¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in	n locked condition with an appropriate
Mechanical Data		counterpart	nocked condition with an appropriate
Insertion force ¹	\leq 23 N	³ specifications on page 125	
Withdrawal force ¹	\leq 23 N		
Mating cycles	≥ 100		
Protection degree ²	IP67		
Mating connectors	M8 male connectors according to		
-	IEC 61076-2-104		
Connected Cable ³			
Cable jacket	PVC		
Cable no.	910001 (3 x 0.34 mm ²)		
UL style	2464		

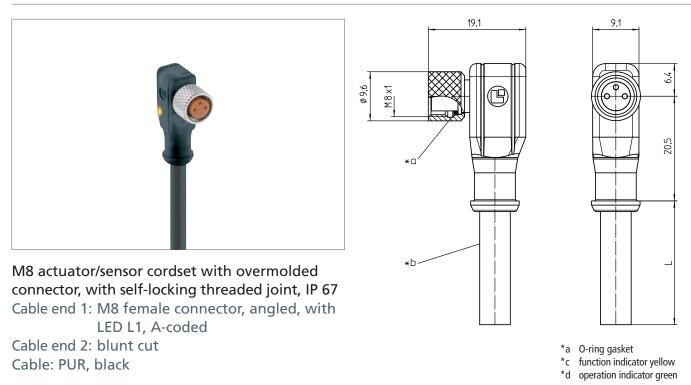
Designation	Poles	Cable	Cable Lengths [L] in m
0806 03 L1 001 2m	3	PVC, black	2
0806 03 L1 001 5m	3	PVC, black	5

More pole numbers and cable lengths on request.

M8 0806 ... L1 3...

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

c us [pending]



Pin Assignment

3 pole



1 = brown

- 3 = blue
- 4 = black

0806 ... L1 3...

M8

Ambient Conditions		Electrical Data (at T _{amb} 20 ^o	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	$\leq 10 \text{ m}\Omega$
iemperature nange	23 07+00 0	Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	10-30 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	1.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	TPU, halogen-free	Pollution degree	3
Knurled nut	CuZn, nickel-plated	Insulation resistance	> 100 MΩ
Seal	FKM		
Mechanical Data Insertion force ¹ Withdrawal force ¹ Mating cycles Protection degree ² Mating connectors	\leq 23 N \leq 23 N \geq 100 IP67 M8 male connectors according to IEC 61076-2-104	 ¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only i counterpart ³ specifications on page 125 	n locked condition with an appropriate
Connected Cable ³			
Cable jacket	PUR		
Cable no.	910300 (3 x 0.34 mm ²)		
UL style	20549		

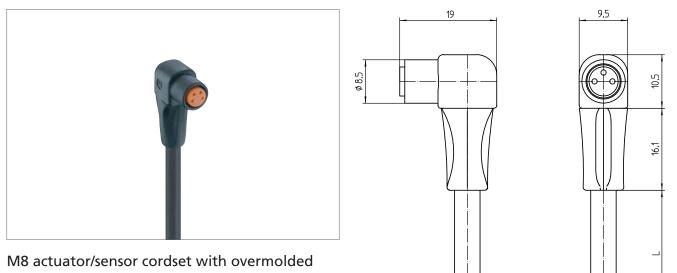
Designation	Poles	Cable	Cable Lengths [L] in m
0806 03 L1 300 2m	3	PUR, black	2
0806 03 L1 300 5m	3	PUR, black	5

More pole numbers and cable lengths on request.

M8 0805F1... 0...

Actuator/sensor cordset **PVC** Single-ended with female connector Snap joint, IP65

c Sus [pending]



connector, with snap joint, IP 65

Cable end 1: M8 female connector, angled,

A-coded Cable end 2: blunt cut Cable: PVC, black

Pin Assignment

4 pole



1 = brown

2 = white

3 = blue

4 = black

0805F1... 0...

M8

Ambient Conditions		Electrical Data (at T _{amb} 20 °	°C)
Temperature Range	-25 °C/+80 °C	Contact resistance ¹	\leq 10 m Ω
		Rated current at T _{amb} 40 °C	4 A
Materials		Rated voltage	50 V AC/60 V DC
Insulating body	TPU GF, HB according to UL 94	Rated impulse voltage	1.50 kV
Contact bush	CuZn, pre-nickel and gold-plated	Material group	I (IEC)/0 (UL) (CTI=600)
Overmolding/handle	PVC, HB according to UL 94	Pollution degree	3
		Insulation resistance	> 100 MΩ
Mechanical Data		1 manufactured with a proper counterpart	
Insertion force ¹	\leq 23 N	¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in	n locked condition with an appropriate
Withdrawal force ¹	\leq 23 N	counterpart ³ specifications on page 125	
Mating cycles	≥ 100	specifications on page 125	
Protection degree ²	IP65		
Mating connectors	M8 male connectors according to		
	IEC 61076-2-104		
Connected Cable ³			
Cable jacket	PVC		
Cable no.	910002 (4 x 0.34 mm ²)		
UL style	2464		

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 connector Threaded joint, IP67

c Sus [pending]



Cable end 1: M8 male connector, straight,
A-coded
Cable end 2: M8 female connector, straight,
A-coded
Cable: PUR, black

Pin Assignment

4 pole, male



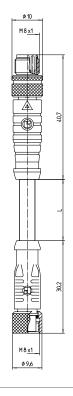
4 pole, female

1 = brown

2 = white

3 = blue

4 = black



0810 0800 ... 3... **M8**

Ambient Conditions

Temperature Range

Materials

Insulating body Contact bush/contact pin Overmolding/handle Knurled nut Seal

Mechanical Data

Insertion force¹ Withdrawal force¹ Mating cycles Protection degree² Mating connectors

Connected Cable³

Cable jacket	PUR
Cable no.	910301 (4 x 0.34 mm ²)
UL style	20549

-25 °C/+80 °C

TPU, halogen-free

FKM

 \leq 23 N

 \leq 23 N

≥100

IP67

CuZn, nickel-plated

to IEC 61076-2-104

TPU GF, HB according to UL 94

CuZn, pre-nickel and gold-plated

M8 male/female connectors according

Electrical Data (at T_{amb} 20 °C)

- and	
Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	50 V AC/60 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	> 100 MΩ

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

³ specifications on page 125

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 connector Threaded joint, IP67

c us [pending]



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



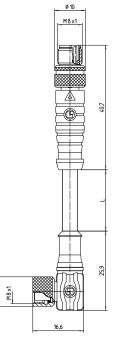
Pin Assignment

4 pole, male



4 pole, female

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



\$9.6

0810 0805 ... 3... **M8**

Temperature Range

Temperature range

Materials

Insulating body Contact bush/contact pin Overmolding/handle Knurled nut Seal

Mechanical Data

Insertion force¹ Withdrawal force¹ Mating cycles Protection degree² Mating connectors

Connected Cable³

Cable jacket	PUR
Cable no.	910301 (4 x 0.34 mm ²)
UL style	20549

-25 °C/+80 °C

TPU, halogen-free

FKM

 \leq 23 N

 \leq 23 N

≥100

IP67

CuZn, nickel-plated

to IEC 61076-2-104

TPU GF, HB according to UL 94

CuZn, pre-nickel and gold-plated

M8 male/female connectors according

Electrical Data (at T_{amb} 20 °C)

- and	
Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	50 V AC/60 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	> 100 MΩ

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

³ specifications on page 125

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.

M8 0810 0806 ... L1 3...

Actuator/sensor cordset PUR, LED Double-ended with male and female connector Threaded joint, IP67

c us [pending]



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, with LED L1, A-coded

Cable: PUR, black

Pin Assignment

3 pole, male



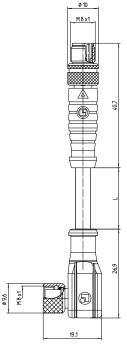
400²

3 pole, female

1 = brown

3 = blue

4 = black



0810 0806 ... L1 3... **M8**

Temperature Range

Temperature range

Materials

Insulating body Contact bush/contact pin Overmolding/handle Knurled nut Seal

Mechanical Data

Insertion force¹ Withdrawal force¹ Mating cycles Protection degree² Mating connectors

Connected Cable³

Cable jacket	PUR
Cable no.	910300 (3 x 0.34 mm ²)
UL style	20549

-25 °C/+80 °C

TPU, halogen-free

FKM

 \leq 23 N

 \leq 23 N

≥100

IP67

CuZn, nickel-plated

to IEC 61076-2-104

TPU GF, HB according to UL 94

CuZn, pre-nickel and gold-plated

M8 male/female connectors according

Electrical Data (at T_{amb} 20 °C)

Contact resistance ¹	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	10-30 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	>100 MΩ

measured with a proper counterpart according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

specifications on page 125

Designation	Poles	Cable	Cable Lengths [L] in m
0810 0806 03 L1 300 0.3m	3	PUR, black	0.3
0810 0806 03 L1 300 1m	3	PUR, black	1
0810 0806 03 L1 300 2m	3	PUR, black	2
0810 0806 03 L1 300 5m	3	PUR, black	5

More pole numbers and cable lengths on request.

Lutronic 📙

passion for connections



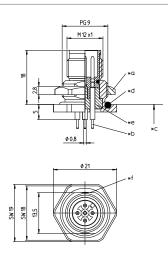
Panel Mount Connectors

M12 1231 ... T9CP

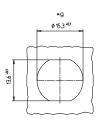
Panel mount connector Rear side mounting Thread PG9, IP 67

c Sus [pending]





M12 panel mount connector, male, A-coded, IP67, for rear side mounting, thread PG9, for printed circuit boards



*a nut

- *b solder pin for bore hole in printed circuit board Ø 1.2 mm
- *c mounting direction
- *d O-ring gasket
- *e contact area potted
- *f anti-rotation
- *g port in mounting plate

Pin Assignment and Printed Circuit Board Layouts





8 pole







M12

Temperature Range 1 measured with a proper counterpart 2 according to IEC DIN EN 60529, only in locked condition with an appropriate Temperature range -25 °C/+80 °C counterpart acc. to IEC 60664/DIN EN 60664, CTI UL classification acc. to ANSI/UL 746A Materials Insulating body PA Contact pin CuZn, pre-nickel and gold-plated Housing CuZn, nickel-plated Hexagonal nut CuZn, nickel-plated Seal FKM Mechanical Data Insertion force¹ $\leq 10 \text{ N}$ Withdrawal force¹ \leq 15 N Mating cycles ≥100 Protection degree² IP67 Mating connectors M12 female connectors according to IEC 61076-2-101 Electrical Data (at T_{amb} 20 °C) Contact resistance \leq 5 m Ω Rated current at T_{amb} 40 °C 4 A Rated voltage³ 60 V AC/DC Rated impulse voltage³ 1.50 kV Material group³ I (IEC)/0 (UL) (CTI=600) Overvoltage category³ Ш Pollution degree 3 Insulation resistance > 100 MO

Designation	Poles	Cable	Cable Lengths [L] in m
1231 04 T9CP	4		
1231 05 T9CP	5		
1231 08 T9CP	8		

More pole numbers on request.

1231 ... T9CP

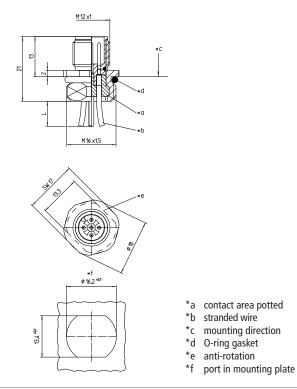
M12 1230 ... T16CW ...

Panel mount connector Front mounting Thread M16, IP 67

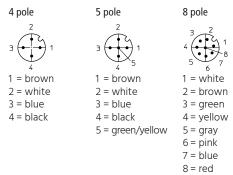
c Sus [pending]



M12 panel mount connector, male, A-coded, IP67, for front mounting, thread M16, with stranded wires



Pin Assignment



1230 ... T16CW ... M12

Temperature Range

Temperature range

-25 °C/+80 °C

Materials

PA
CuZn, pre-nickel and gold-plated
CuZn, nickel-plated
CuZn, nickel-plated
FKM

Mechanical Data

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

Electrical Data (at T_{amb} 20 °C)

Contact resistance	\leq 5 m Ω
Rated current at T_{amb} 40 °C	4 A
Rated voltage ³	60 V AC/DC
Rated impulse voltage ³	1.50 kV
Material group ³	I (IEC)/0 (UL) (CTI=600)
Overvoltage category ³	II
Pollution degree	3
Insulation resistance	>100 MΩ

1230 04 T16CW 0.5m 4 PVC 0.5 1230 05 T16CW 0.5m 5 PVC 0.5 1230 08 T16CW 0.5m 8 PVC 0.5	Designation	Poles	Cable	Cable Lengths [L] in m
	1230 04 T16CW 0.5m	4	PVC	0.5
1230.08.T16CW.0.5m 8 PVC 0.5	1230 05 T16CW 0.5m	5	PVC	0.5
	1230 08 T16CW 0.5m	8	PVC	0.5

More pole numbers on request.

¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in locked condition with an appropriate

counterpart ³ acc. to IEC 60664/DIN EN 60664, CTI UL classification acc. to ANSI/UL 746A

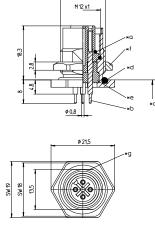
M12 1221 ... T9CP

Panel mount connector Rear side mounting Thread PG9, IP 67

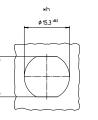
c Sus [pending]



M12 panel mount connector, female, A-coded, IP67, for rear side mounting, thread PG9, for printed circuit boards



PG 9



B.6 *01

- *a O-ring gasket
- *b solder pin for bore hole in printed circuit board Ø 1.2 mm
- *c mounting direction *d O-ring gasket
- *e contact area potted
- *f nut *g anti-rotation
- *h port in mounting plate

Pin Assignment and Printed Circuit Board Layouts













M12

Temperature Range 1 measured with a proper counterpart 2 according to IEC DIN EN 60529, only in locked condition with an appropriate Temperature range -25 °C/+80 °C counterpart acc. to IEC 60664/DIN EN 60664, CTI UL classification acc. to ANSI/UL 746A Materials Insulating body PA Contact bush CuZn, pre-nickel and gold-plated Housing CuZn, nickel-plated Hexagonal nut CuZn, nickel-plated Seal FKM Mechanical Data Insertion force¹ $\leq 10 \text{ N}$ Withdrawal force¹ \leq 15 N Mating cycles ≥100 Protection degree² IP67 Mating connectors M12 male connectors according to IEC 61076-2-101 Electrical Data (at T_{amb} 20 °C) Contact resistance \leq 5 m Ω Rated current at T_{amb} 40 °C 4 A Rated voltage³ 60 V AC/DC Rated impulse voltage³ 1.50 kV Material group³ I (IEC)/0 (UL) (CTI=600) Overvoltage category³ Ш Pollution degree 3 Insulation resistance > 100 MO

1221 ... T9CP

Designation	Poles	Cable	Cable Lengths [L] in m
1221 04 T9CP	4		
1221 05 T9CP	5		
1221 08 T9CP	8		

More pole numbers on request.

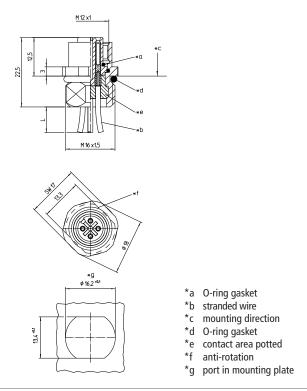
M12 1220 ... T16CW ...

Panel mount connector Front mounting Thread M16, IP 67

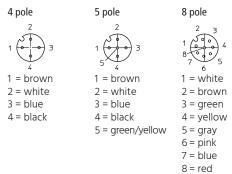
c Sus [pending]



M12 panel mount connector, female, A-coded, IP67, for front mounting, thread M16, with stranded wires



Pin Assignment



1220 ... T16CW ... M12

Temperature Range

Temperature range

-25 °C/+80 °C

Materials

Insulating body	PA
Contact bush	CuZn, pre-nickel and gold-plated
Housing	CuZn, nickel-plated
Hexagonal nut	CuZn, nickel-plated
Seal	FKM

Mechanical Data

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

Electrical Data (at T_{amb} 20 °C)

Contact resistance	\leq 5 m Ω
Rated current at T_{amb} 40 °C	4 A
Rated voltage ³	60 V AC/DC
Rated impulse voltage ³	1.50 kV
Material group ³	I (IEC)/0 (UL) (CTI=600)
Overvoltage category ³	II
Pollution degree	3
Insulation resistance	>100 MΩ

Designation	Poles	Cable	Cable Lengths [L] in m
1220 04 T16CW 0.5m	4	PVC	0.5
1220 05 T16CW 0.5m	5	PVC	0.5
1220 08 T16CW 0.5m	8	PVC	0.5

More pole numbers on request.

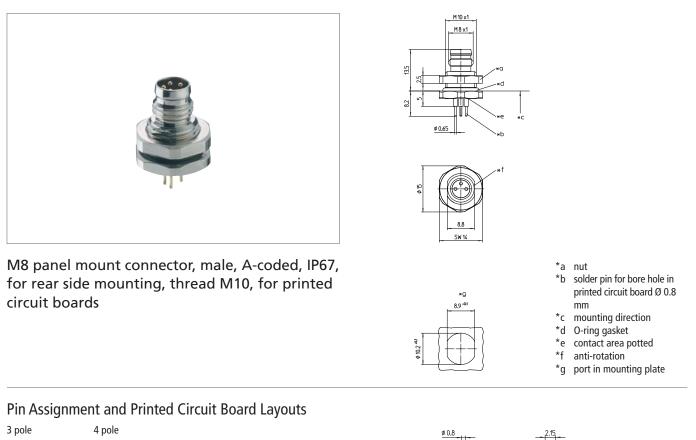
¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in locked condition with an appropriate

counterpart ³ acc. to IEC 60664/DIN EN 60664, CTI UL classification acc. to ANSI/UL 746A

M8 0831 ... T10CP

Panel mount connector Rear side mounting Thread M10, IP 67

c Sus [pending]











0831 ... T10CP

M8

Temperature Range Temperature range	-25 °C/+80 °C	¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart
Materials		
Insulating body	PA	
Contact pin	CuZn, pre-nickel and gold-plated	
Housing	CuZn, nickel-plated	
Hexagonal nut	CuZn, nickel-plated	
Seal	FKM	
Mechanical Data		
Insertion force ¹	≤ 23 N	
Withdrawal force ¹	≤ 23 N	
Mating cycles	≥ 100	
Protection degree ²	IP67	
Mating connectors	M8 female connectors according to	
	IEC 61076-2-104	
Electrical Data (at T _{amb} 20 °		
Contact resistance	\leq 10 m Ω	
Rated current at T _{amb} 40 °C	4 A	
Rated voltage	50 V AC/60 V DC	
Rated impulse voltage	1.50 kV	
Material group	I (IEC)/0 (UL) (CTI=600)	
Pollution degree	3	
Insulation resistance	> 100 MΩ	

Designation	Poles	Cable	Cable Lengths [L] in m
0831 03 T10CP	3		
0831 04 T10CP	4		

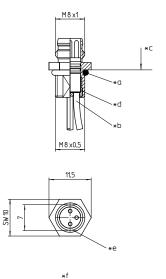
More pole numbers on request.

0830 ... T8CW ... **M8**

Panel mount connector Front mounting Thread M8, IP 67



M8 panel mount connector, male, A-coded, IP67, for front mounting, thread M8, with stranded wires



Ø 8,2 *^{0,1}

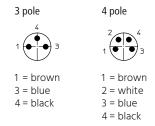
7.1 *01



c Sus [pending]

- *b stranded wire
- *c mounting direction
- contact area potted *d
- *e anti-rotation
- *f port in mounting plate

Pin Assignment



0830 ... T8CW ...

¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

M8

Temperature Range

Temperature range

-25 °C/+80 °C

Materials

PA
CuZn, pre-nickel and gold-plated
CuZn, nickel-plated
CuZn, nickel-plated
FKM

Mechanical Data

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

Electrical Data (at T_{amb} 20 °C)

Contact resistance	\leq 10 m Ω
Rated current at T_{amb} 40 °C	4 A
Rated voltage	50 V AC/60 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	> 100 MΩ

Designation	Poles	Cable	Cable Lengths [L] in m
0830 03 T8CW 0.5m	3	PVC	0.5
0830 04 T8CW 0.5m	4	PVC	0.5

More pole numbers on request.

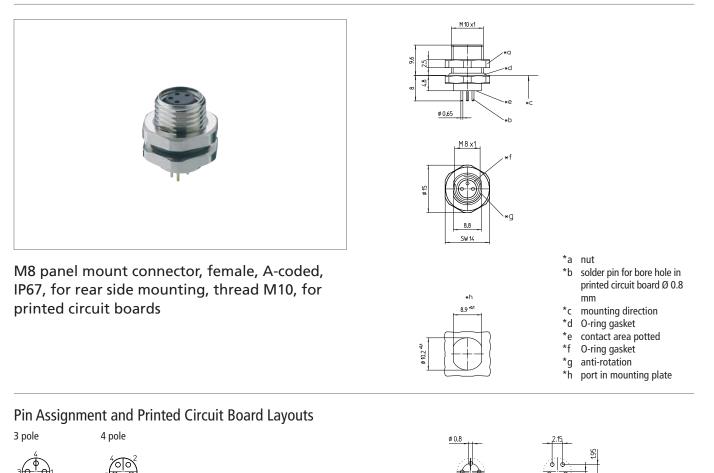
M8 0821 ... T10CP

Panel mount connector Rear side mounting Thread M10, IP 67

c Sus [pending]

S.

3.4



0821 ... T10CP

M8

Temperature Range

Temperature range

-25 °C/+80 °C

Materials

Insulating body	PA
Contact bush	CuZn, pre-nickel and gold-plated
Hexagonal nut	CuZn, nickel-plated
Seal	FKM

Mechanical Data

Insertion force ¹	\leq 23 N
Withdrawal force ¹	\leq 23 N
Mating cycles	\geq 100
Protection degree ²	IP67
Mating connectors	M8 male connectors according to
	IEC 61076-2-104

Electrical Data (at T_{amb} 20 °C)

Contact resistance	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	50 V AC/60 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	> 100 MΩ

¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

Designation	Poles	Cable	Cable Lengths [L] in m
0821 03 T10CP	3		
0821 04 T10CP	4		

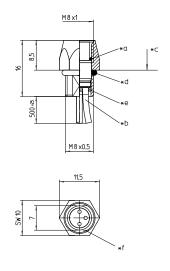
M8 0820 ... T8CW ...

Panel mount connector Front mounting Thread M8, IP 67

c Sus [pending]



M8 panel mount connector, female, A-coded, IP67, for front mounting, thread M8, with stranded wires



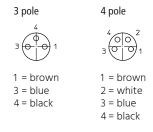
×д

7.1*01

Ø 8,2 *0,1

- *a O-ring gasket
- *b stranded wire
- *c mounting direction
- *d O-ring gasket
- *e contact area potted
- *f anti-rotation
- *g port in mounting plate

Pin Assignment



0820 ... T8CW ...

M8

Temperature Range

Temperature range

-25 °C/+80 °C

Materials

Insulating body	PA
Contact bush	CuZn, pre-nickel and gold-plated
Hexagonal nut	CuZn, nickel-plated
Seal	FKM

Mechanical Data

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

Electrical Data (at T_{amb} 20 °C)

Contact resistance	\leq 10 m Ω
Rated current at T _{amb} 40 °C	4 A
Rated voltage	50 V AC/60 V DC
Rated impulse voltage	1.50 kV
Material group	I (IEC)/0 (UL) (CTI=600)
Pollution degree	3
Insulation resistance	>100 MΩ

¹ measured with a proper counterpart ² according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

Designation	Poles	Cable	Cable Lengths [L] in m
0820 03 T8CW 0.5m	3	PVC	0.5
0820 04 T8CW 0.5m	4	PVC	0.5

More pole numbers on request.



passion for connections

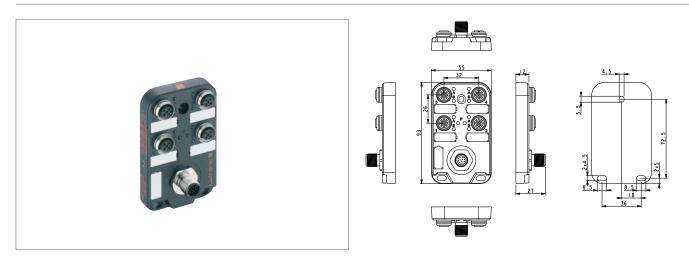


Passive Distribution Boxes

M12 5512 04L1

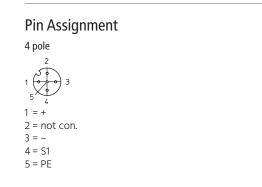
Actuator/Sensor distribution boxes

CE | c Sus [pending]

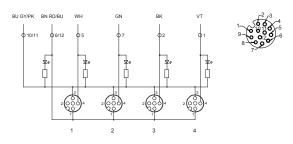


Passive distribution box M12, 4-port, single signal, with LEDs, IP67

Main connection: M12



Wiring diagram



M12

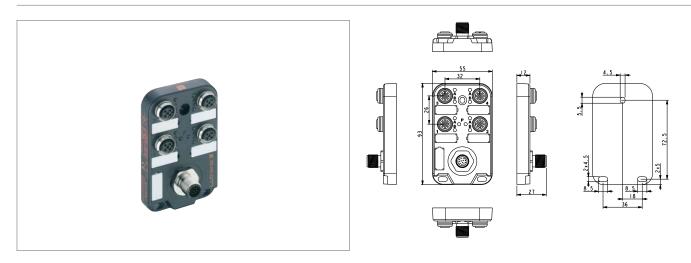
Temperature Range	-40 °C/+80 °C		
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data			
Protection degree ¹	IP67		
Mating connectors	M12 male connectors according to IEC 61076-2-101		
Electrical Data (at T _{amb} 2	0 °C)		
Contact resistance	\leq 5 m Ω		
Nominal current	\leq 1.5 A per port		
Nominal voltage	≤ 4.5 A per port 10–30 V DC (24 V DC)		
-	nly in locked condition with an appropriate		
Designation	Poles	Cable	Cable Lengths [L] in m
5512 04L1	4 x 4		

More pole numbers and cable lengths on request.

M12 5512 04DL1

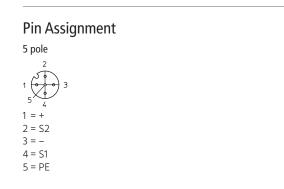
Actuator/Sensor distribution boxes

CE | c Sus [pending]

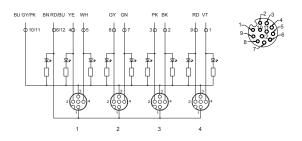


Passive distribution box M12, 4-port, double signal, with LEDs, IP67

Main connection: M12



Wiring diagram



5512 04DL1

M12

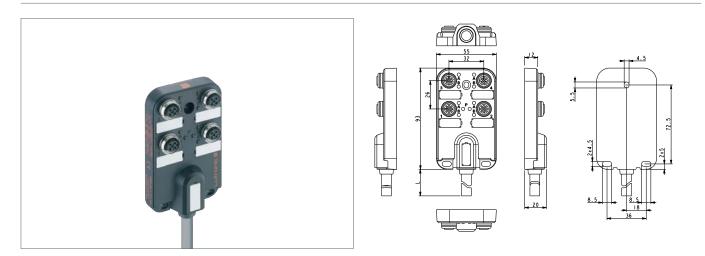
Temperature Range Temperature range	-40 °C/+80 °C		
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M12 male connectors according to IEC 61076-2-101		
Electrical Data (at T _{amb} 20 Contact resistance Nominal current Nominal voltage ¹ according to IEC DIN EN 60529, on counterpart	O°C) ≤ 5 mΩ ≤ 1.5 A per port ≤ 4.5 A per port 10–30 V DC (24 V DC) ly in locked condition with an appropriate		
Designation	Poles	Cable	Cable Lengths [L] in m
	4 x 5		

More pole numbers and cable lengths on request.

M12 5500 04L1 3...

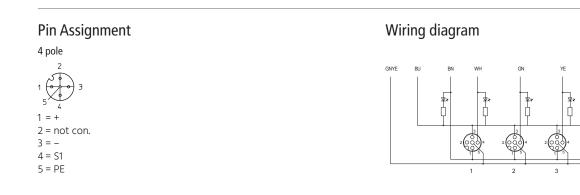
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M12, 4-port, single signal, with LEDs, IP67

Main connection: Cable, PUR, gray



5500 04L1 3...

PUR, gray

PUR, gray

M12

Temperature Range Temperature range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in lo counterpart ² specifications on page 125	cked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M12 male connectors according to IEC 61076-2-101		
Connected Cable ² Cable jacket Cable no. UL style	PUR 910311 (4 x 0.34 mm², 3 x 0.75 mm²) 20549		
Electrical Data (at T _{amb} 20 ° Contact resistance Nominal current Nominal voltage	PC) ≤ 5 mΩ ≤ 2 A per port ≤ 8 A per port 10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m

5500 04L1 311 5m

5500 04L1 311 10m

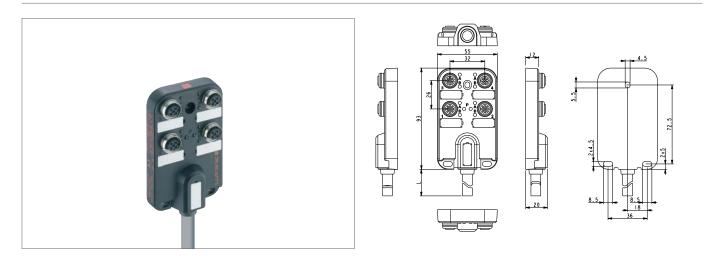
4 x 4

4 x 4

M12 5500 04DL1 3...

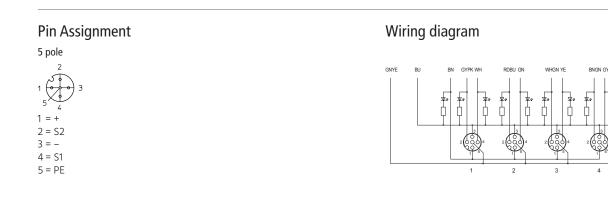
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M12, 4-port, double signal, with LEDs, IP67

Main connection: Cable, PUR, gray



5500 04DL1 3...

M12

10

Temperature Range Temperature range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in counterpart ² specifications on page 125	locked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M12 male connectors according to IEC 61076-2-101		
Connected Cable ²			
Cable jacket	PUR		
Cable no. UL style	910314 (8 x 0.34 mm², 3 x 0.75 mm²) 20549		
Electrical Data (at T _{amb} 20 C Contact resistance Nominal current Nominal voltage	° C) ≤ 5 mΩ ≤ 2 A per port ≤ 8 A per port 10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m
5500 04DL1 314 5m	4x5	PUR, gray	
JJ00 04DE1 J14 JIII	4 A J	r on, gray	J

PUR, gray

4 x 5

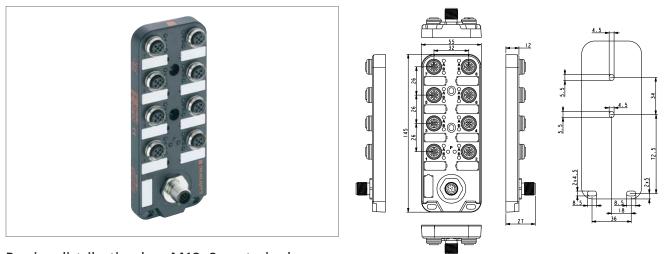
More pole numbers and cable lengths on request.

5500 04DL1 314 10m

M12 5512 08L1

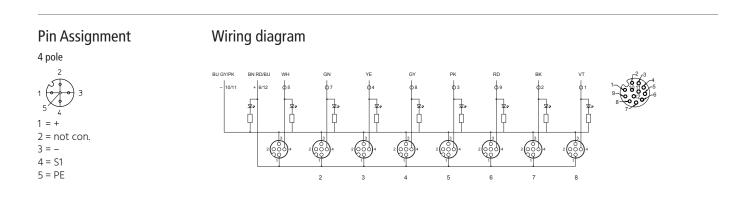
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M12, 8-port, single signal, with LEDs, IP67

Main connection: M12



M12

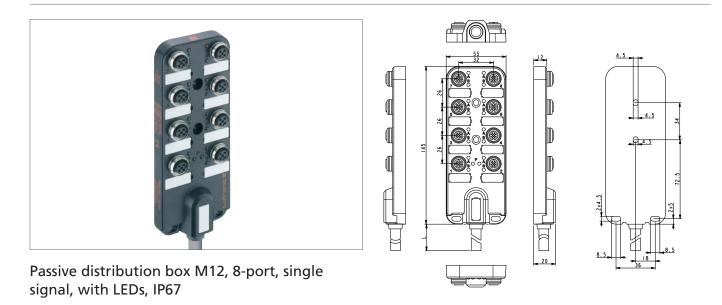
Temperature Range Temperature range	-40 °C/+80 °C		
Materials			
Insulating body	PA, V-2 according to UL94		
Contact	CuZn, pre-nickel and tin-plated		
Connector thread	CuZn, nickel-plated		
Housing	PC/ABS		
Resistance	Good resistance against chemicals		
	and oils. Resistance against aggressive		
	media to be individually verified for		
	each application		
Mechanical Data			
Protection degree ¹	IP67		
Mating connectors	M12 male connectors according to		
	IEC 61076-2-101		
Electrical Data (at T _{amb} 2	0 °C)		
Contact resistance	\leq 5 m Ω		
Nominal current	\leq 1.5 A per port		
	\leq 4.5 A per port		
Nominal voltage	10–30 V DC (24 V DC)		
¹ according to IEC DIN EN 60529, o counterpart	nly in locked condition with an appropriate		
Designation	Poles	Cable	Cable Lengths [L] in m
5512 08L1	8 x 4		

More pole numbers and cable lengths on request.

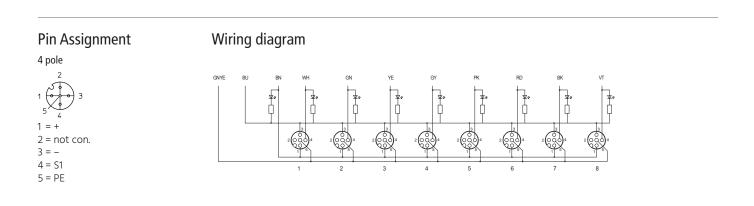
M12 5500 08L1 3...

Actuator/Sensor distribution boxes

CE | c Sus [pending]



Main connection: Cable, PUR, gray



5500 08L1 3...

M12

Temperature Range Temperature range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in loc counterpart ² specifications on page 125	cked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M12 male connectors according to IEC 61076-2-101		
Connected Cable ² Cable jacket Cable no. UL style	PUR 910312 (8 x 0.34 mm², 3 x 0.75 mm²) 20549		
Electrical Data (at T _{amb} 20 ^c Contact resistance Nominal current Nominal voltage	² C) ≤ 5 mΩ ≤ 2 A per port ≤ 8 A per port 10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m

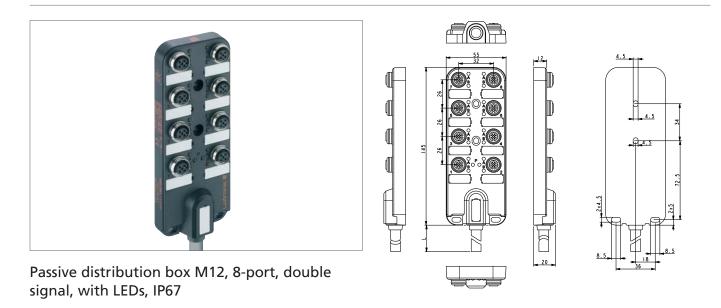
Designation	FUIES	Capie	Cable Lenguis [L] III III
5500 08L1 312 5m	8 x 4	PUR, gray	5
5500 08L1 312 10m	8 x 4	PUR, gray	10

More pole numbers and cable lengths on request.

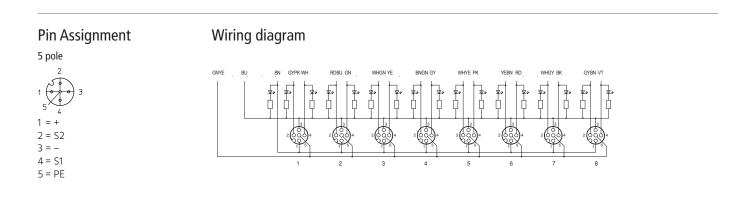
M12 5500 08DL1 3...

Actuator/Sensor distribution boxes

CE | c Sus [pending]



Main connection: Cable, PUR, gray



5500 08DL1 3...

M12

10

Temperature Range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in lo counterpart ² specifications on page 125	ocked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M12 male connectors according to IEC 61076-2-101		
Connected Cable ²			
Cable jacket	PUR		
Cable no.	910313 (16 x 0.34 mm ² , 3 x 0.75 mm ²)		
UL style	20549		
Electrical Data (at T_{amb} 20 °	C)		
Contact resistance	$\leq 5 \text{ m}\Omega$		
Nominal current	\leq 2 A per port		
	\leq 8 A per port		
Nominal voltage	10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m
5500 08DL1 313 5m	8 x 5	PUR, gray	5

More pole numbers and cable lengths on request.

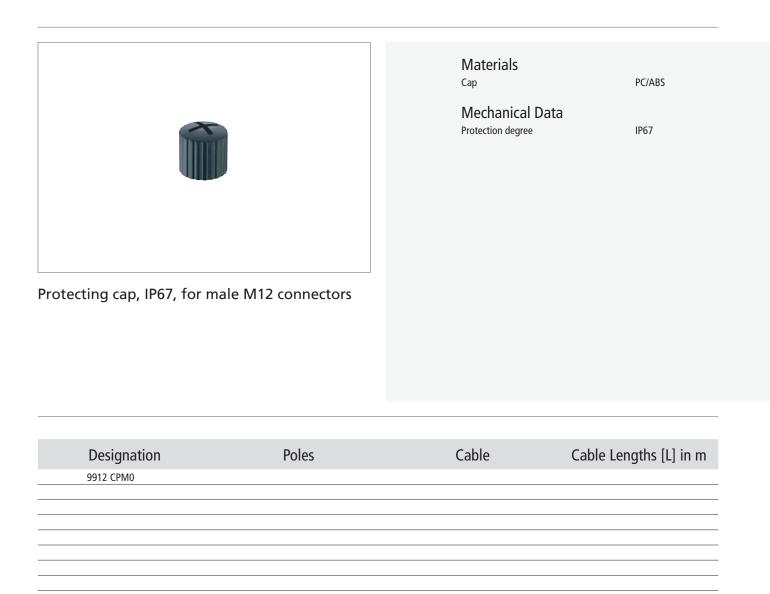
5500 08DL1 313 10m

PUR, gray

8 x 5

M12 9912 CPM0

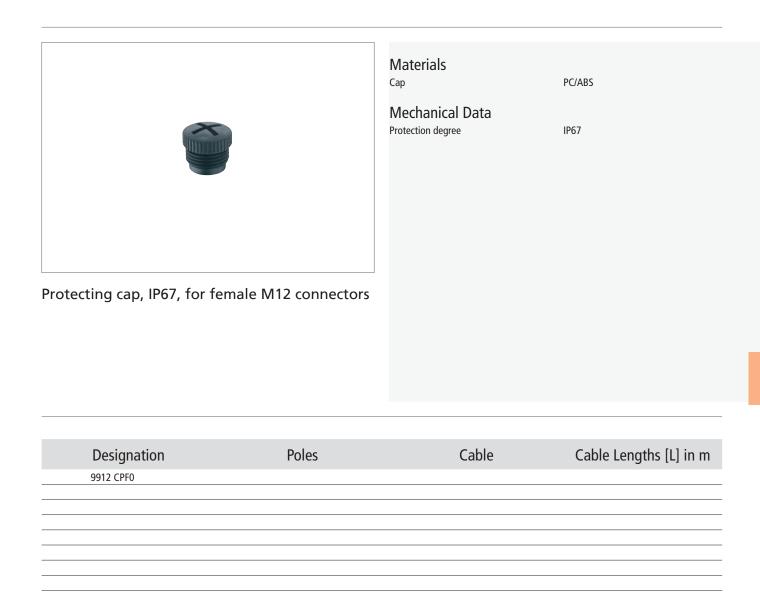
Accessories for Actuator/Sensor distribution boxes



9912 CPF0

M12

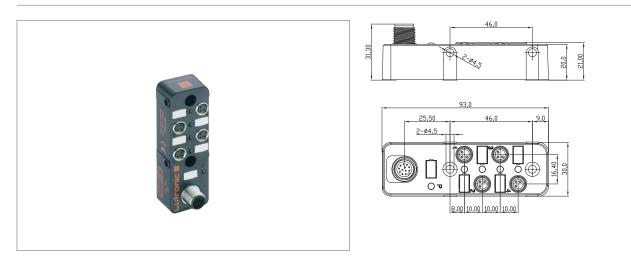
Accessories for Actuator/Sensor distribution boxes



M8 5012 04L1

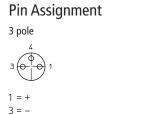
Actuator/Sensor distribution boxes

CE | c Sus [pending]



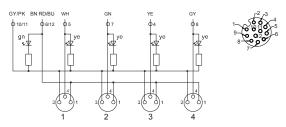
Passive distribution box M8, 4-port, single signal, with LEDs, IP67

Main connection: M12



4 = S1

Wiring diagram



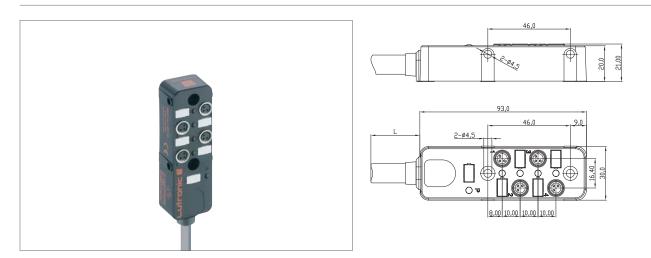
Temperature Range Temperature range	-40 °C/+80 °C		
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and gold-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M8 male connectors according to IEC 61076-2-104		
Electrical Data (at T _{amb} 2	20 °C)		
Contact resistance Nominal current	≤ 5 mΩ ≤ 1.5 A per port		
Nominal voltage	≤ 4.5 A per port 10–30 V DC (24 V DC)		
¹ according to IEC DIN EN 60529, a counterpart	only in locked condition with an appropriate		
Designation	Poles	Cable	Cable Lengths [L] in m
5012 04L1	4 x 3		

More pole numbers and cable lengths on request.

M8 5000 04L1 3...

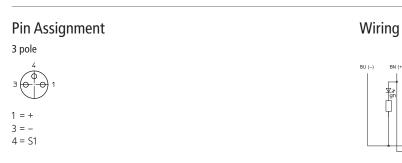
Actuator/Sensor distribution boxes

CE | c Sus [pending]

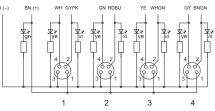


Passive distribution box M8, 4-port, single signal, with LEDs, IP67

Main connection: Cable, PUR, gray



Wiring diagram



5000 04L1 3...

PUR, gray

M8

10

Temperature Range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in counterpart ² specifications on page 125	locked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M8 male connectors according to IEC 61076-2-104		
Connected Cable ²			
Cable jacket	PUR		
Cable no.	910307 (4 x 0.22 mm ² , 2 x 0.50 mm ²)		
UL style	20549		
Electrical Data (at T _{amb} 20 ^c	°C)		
Contact resistance	$\leq 5 \text{ m}\Omega$		
Nominal current	\leq 2 A per port		
	\leq 8 A per port		
Nominal voltage	10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m
5000 04L1 307 5m	4 x 3	PUR, gray	5

More pole numbers and cable lengths on request.

4 x 3

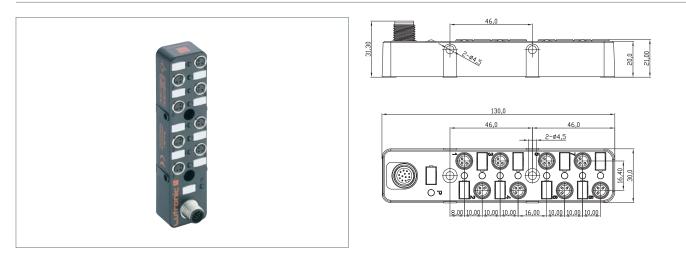
5000 04L1 307 10m

103 /////

M8 5012 08L1

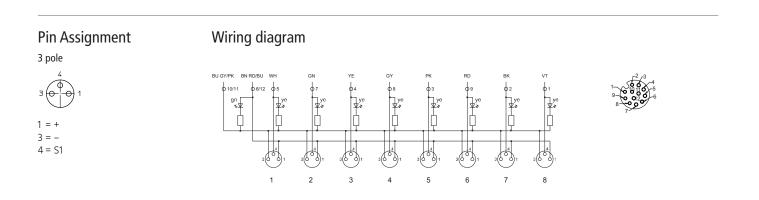
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M8, 8-port, single signal, with LEDs, IP67

Main connection: M12



Temperature range -40 °C/+80 °C Materials Insulating body PA, V-2 according to UL94 Contact CuZn, pre-nickel and gold-plated Connector thread CuZn, nickel-plated Housing PC/ABS Resistance Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application Mechanical Data P67 Mating connectors M8 male connectors according to IEC 61076-2-104 Electrical Data (at T _{amb} 20 °C) Contact resistance 5 mΩ Nominal current ≤ 1.5 A per port ≤ 4.5 A per port Nominal voltage 10–30 V DC (24 V DC)	
Insulating body PA, V-2 according to UL94 Contact CuZn, pre-nickel and gold-plated Connector thread CuZn, nickel-plated Housing PC/ABS Resistance Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application Mechanical Data IP67 Mating connectors Mating connectors M8 male connectors according to IEC 61076-2-104 Electrical Data (at T _{amb} 20 °C) Contact resistance ≤ 5 mΩ Nominal current ≤ 1.5 A per port	
ContactCuZn, pre-nickel and gold-platedConnector threadCuZn, nickel-platedHousingPC/ABSResistanceGood resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each applicationMechanical DataIP67Protection degree1IP67Mating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ Nominal currentNominal current $\leq 1.5 A per port$	
ContactCuZn, pre-nickel and gold-platedConnector threadCuZn, nickel-platedHousingPC/ABSResistanceGood resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each applicationMechanical DataIP67Protection degree1IP67Mating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ $\leq 1.5 A per port\leq 4.5 A per port$	
HousingPC/ABSResistanceGood resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each applicationMechanical DataIP67 	
HousingPC/ABSResistanceGood resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each applicationMechanical DataIP67 Mating connectorsMating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T _{amb} 20 °C/ Contact resistanceS mQ < 1.5 A per port < 4.5 A per port	
and oils. Resistance against aggressive media to be individually verified for each application Mechanical Data Protection degree¹ IP67 Mating connectors M8 male connectors according to IEC 61076-2-104 Electrical Data (at T _{amb} 20 °C) Contact resistance ≤ 5 mΩ Nominal current ≤ 1.5 A per port ≤ 4.5 A per port	
media to be individually verified for each applicationMechanical DataProtection degree1IP67Mating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ Nominal current $\leq 1.5 A per port$ $\leq 4.5 A per port$	
each application Mechanical Data Protection degree ¹ IP67 Mating connectors M8 male connectors according to IEC 61076-2-104 Electrical Data (at T _{amb} 20 °C) Contact resistance ≤5 mΩ Nominal current ≤1.5 A per port ≤4.5 A per port	
Mechanical DataProtection degree¹IP67Mating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ Nominal currentSolution $\leq 1.5 A per port$ $\leq 4.5 A per port$	
Protection degree ¹ IP67 Mating connectors M8 male connectors according to IEC 61076-2-104 Electrical Data (at T_{amb} 20 °C) Contact resistance $\leq 5 m\Omega$ Nominal current $\leq 1.5 A per port$ $\leq 4.5 A per port$	
Protection degree!IP67Mating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ Nominal current $\leq 1.5 A per port$ $\leq 4.5 A per port$	
Mating connectorsM8 male connectors according to IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ Nominal current $\leq 1.5 A per port$ $\leq 4.5 A per port$	
IEC 61076-2-104Electrical Data (at T_{amb} 20 °C)Contact resistance $\leq 5 m\Omega$ Nominal current $\leq 1.5 A per port$ $\leq 4.5 A per port$	
Contact resistance $\leq 5 \text{ m}\Omega$ Nominal current $\leq 1.5 \text{ A per port}$ $\leq 4.5 \text{ A per port}$	
Contact resistance $\leq 5 \text{ m}\Omega$ Nominal current $\leq 1.5 \text{ A per port}$ $\leq 4.5 \text{ A per port}$	
\leq 4.5 A per port	
\leq 4.5 A per port	
Nominal voltage 10–30 V DC (24 V DC)	
¹ according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart	
Designation Poles Cable Ca	able Lengths [L] in m

8 x 3

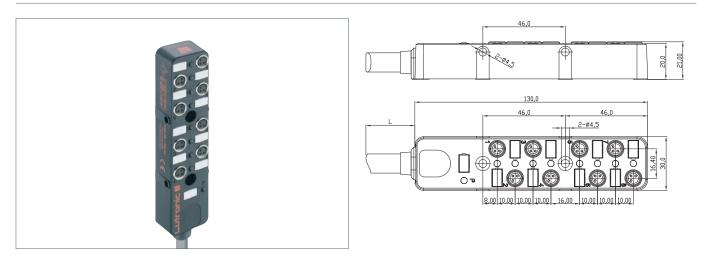
More pole numbers and cable lengths on request.

5012 08L1

M8 5000 08L1 3...

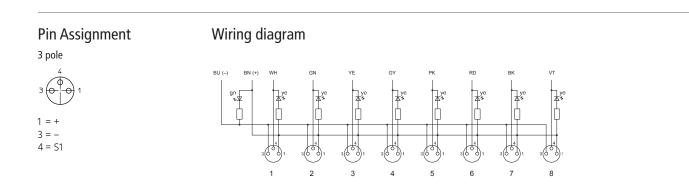
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M8, 8-port, single signal, with LEDs, IP67

Main connection: Cable, PUR, gray



5000 08L1 3...

PUR, gray

PUR, gray

M8

5 10

Temperature Range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in loc counterpart ² specifications on page 125	cked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M8 male connectors according to IEC 61076-2-104		
Connected Cable ² Cable jacket Cable no. UL style	PUR 910308 (8 x 0.22 mm², 2 x 0.50 mm²) 20549		
Electrical Data (at T _{amb} 20 ^c Contact resistance Nominal current Nominal voltage	PC) ≤ 5 mΩ ≤ 2 A per port ≤ 8 A per port 10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m

8 x 3

8 x 3

More pole numbers and cable lengths on request.

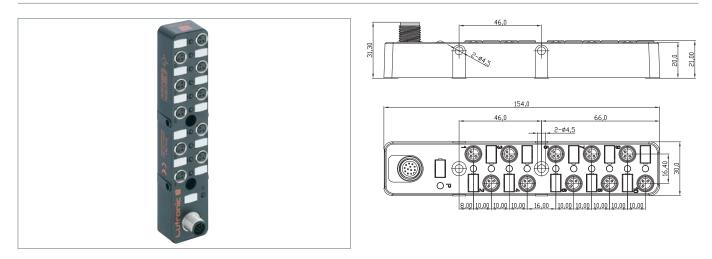
5000 08L1 307 5m

5000 08L1 307 10m

M8 5012 10L1

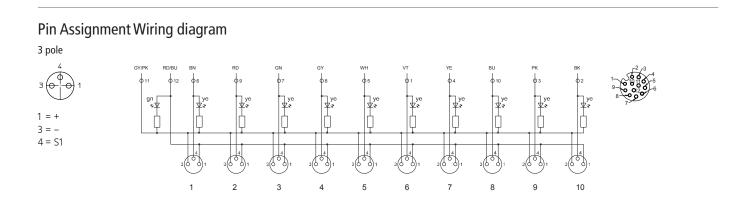
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M8, 10-port, single signal, with LEDs, IP67

Main connection: M12



Temperature Range			
Temperature range	-40 °C/+80 °C		
Materials			
Insulating body	PA, V-2 according to UL94		
Contact	CuZn, pre-nickel and gold-plated		
Connector thread	CuZn, nickel-plated		
Housing	PC/ABS		
Resistance	Good resistance against chemicals		
	and oils. Resistance against aggressive		
	media to be individually verified for		
	each application		
Mechanical Data			
Protection degree ¹	IP67		
Mating connectors	M8 male connectors according to		
	IEC 61076-2-104		
Electrical Data (at T _{amb}	20 °C)		
Contact resistance	\leq 5 m Ω		
Nominal current	\leq 1.5 A per port		
	\leq 4.5 A per port		
Nominal voltage	10–30 V DC (24 V DC)		
¹ according to IEC DIN EN 60529, counterpart	, only in locked condition with an appropriate		
Designation	Poles	Cable	Cable Lengths [L]

10 x 3

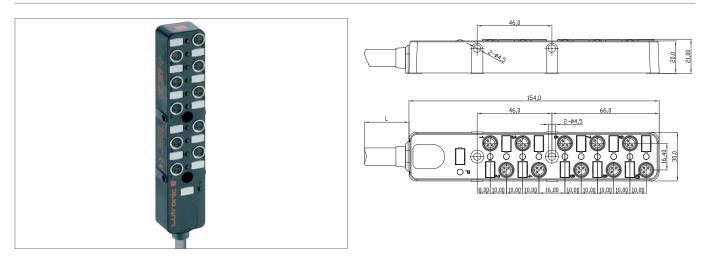
More pole numbers and cable lengths on request.

5012 10L1

M8 5000 10L1 3...

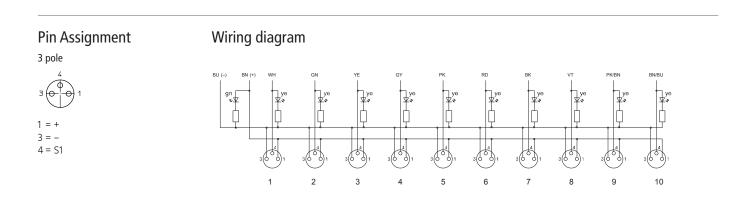
Actuator/Sensor distribution boxes

CE | c Sus [pending]



Passive distribution box M8, 10-port, single signal, with LEDs, IP67

Main connection: Cable, PUR, gray



5000 10L1 3...

PUR, gray

M8

10

Temperature Range	-40 °C/+80 °C	¹ according to IEC DIN EN 60529, only in l counterpart ² specifications on page 125	ocked condition with an appropriate
Materials Insulating body Contact Connector thread Housing Resistance	PA, V-2 according to UL94 CuZn, pre-nickel and tin-plated CuZn, nickel-plated PC/ABS Good resistance against chemicals and oils. Resistance against aggressive media to be individually verified for each application		
Mechanical Data Protection degree ¹ Mating connectors	IP67 M8 male connectors according to IEC 61076-2-104		
Connected Cable ²			
Cable jacket	PUR		
Cable no.	910317 (10 x 0.22 mm ² , 2 x 0.50 mm ²)		
UL style	20549		
Electrical Data (at T_{amb} 20 °	C)		
Contact resistance	$\leq 5 \text{ m}\Omega$		
Nominal current	\leq 2 A per port		
	\leq 8 A per port		
Nominal voltage	10–30 V DC (24 V DC)		
Designation	Poles	Cable	Cable Lengths [L] in m
5000 10L1 317 5m	10 x 3	PUR, gray	5

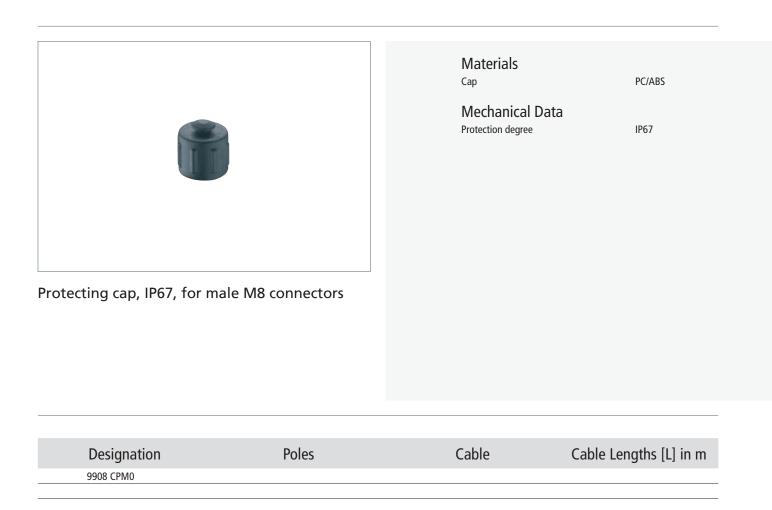
5000 10L1 317 10m

More pole numbers and cable lengths on request.

10 x 3

M8 9908 CPM0

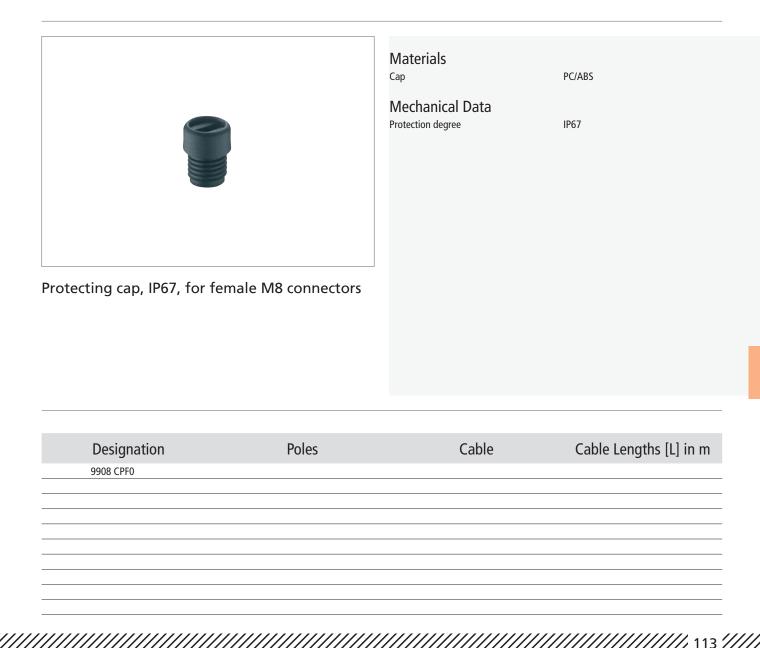
Accessories for Actuator/Sensor distribution boxes



9908 CPF0

M8

Accessories for Actuator/Sensor distribution boxes



Lutronic 📙

passion for connections



High Power LED Lights

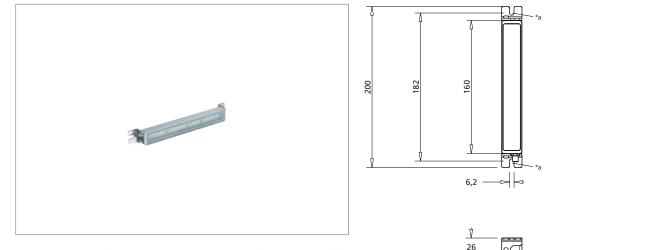
6157 8055 S01 4W

High-power LED lights

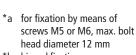
CE

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28 ⊳

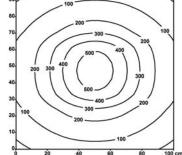


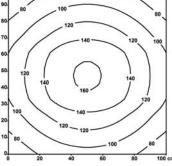
Linear LED light, 4 W, 160 mm length, with solid aluminum housing and frosted tempered glass, IP67, with male M8 connector





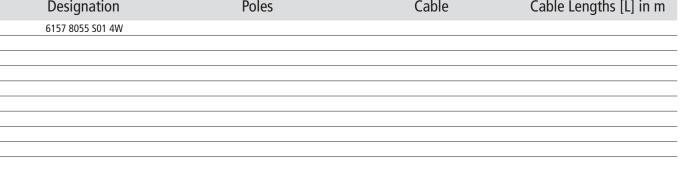
Illuminance with measuring distance 50 cm Illuminance with measuring distance 100 cm Em: 206 Ix Em: 117 Ix Emax: 561 lx Emax: 163 lx Emin: 47 lx Emin: 68 lx 30 20





6157 8055 S01 4W

Temperature Range	≤ 50 °C		
Materials			
Housing	aluminum, anodized		
Lamp cover	tempered glass, frosted		
Mechanical Data			
Protection degree	IP67		
Weight	ca. 180 g		
Mating connectors	M8 female connectors acc. to		
	IEC 61076-2-104		
Electrical Data (at T _{amb} 20	°C)		
Power consumption	4 W		
Connected load	24 V DC (-10 %/+15 %)		
Nominal currect	0.17 A		
Appliance class	III		
Associated products			
Illuminant	LED, energy efficieny class A+		
Luminaire luminous flux	ca. 420 lm		
Luminaire luminous efficacy	ca. 105 lm/W		
Light color	daylight white		
Color temperature	са. 5.500 К		
Color rendering index	> 80		
Light distribution	direct, wide radiation, $> 120^{\circ}$		
Designation	Poles		Cable



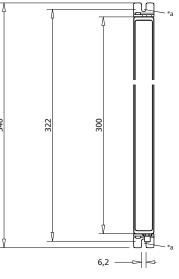
6157 8055 S03 8W

High-power LED lights

CE



Linear LED light, 8 W, 300 mm length, with solid aluminum housing and frosted tempered glass, IP67, with male M8 connector

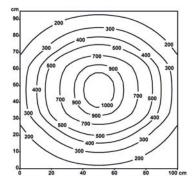




 *a for fixation by means of screws M5 or M6, max. bolt head diameter 12 mm
 *b hinged fixation

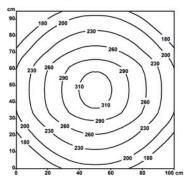
Illuminance with measuring distance 50 cm

Em: 432 lx Emax:1.077 lx Emin: 109 lx



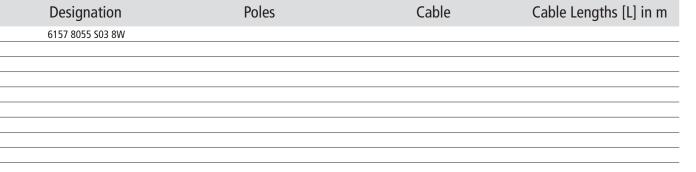
Illuminance with measuring distance 100 cm

Em: 234 lx Emax: 318 lx Emin: 143 lx



6157 8055 S03 8W

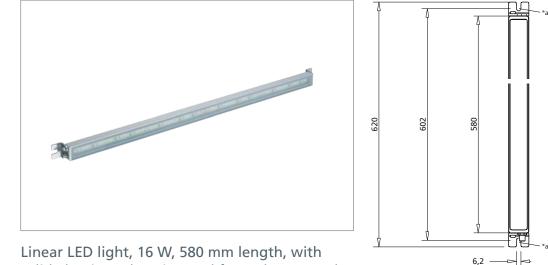
Temperature Range Temperature range < 50 °C Materials Housing aluminum, anodized Lamp cover tempered glass, frosted Mechanical Data Protection degree IP67 Weight ca. 300 g Mating connectors M8 female connectors acc. to IEC 61076-2-104 Electrical Data (at T_{amb} 20 °C) Power consumption 8 W Connected load 24 V DC (-10 %/+15 %) Nominal currect 0.33 A Ш Appliance class Associated products Illuminant LED, energy efficieny class A+ Luminaire luminous flux ca. 840 lm ca. 105 lm/W Luminaire luminous efficacy Light color daylight white Color temperature ca. 5.500 K Color rendering index > 80 Light distribution direct, wide radiation, > 120° Poles Cable



6157 8055 S06 16W

High-power LED lights

CE



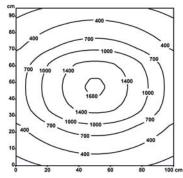
Linear LED light, 16 W, 580 mm length, with solid aluminum housing and frosted tempered glass, IP67, with male M8 connector



 *a for fixation by means of screws M5 or M6, max. bolt head diameter 12 mm
 *b hinged fixation

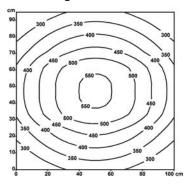
Illuminance with measuring distance 50 cm

Em: 741 lx Emax: 1.718 lx Emin: 180 lx



Illuminance with measuring distance 100 cm

Em: 409 lx Emax: 564 lx Emin: 244 lx



6157 8055 S06 16W

Temperature Range Temperature range < 50 °C Materials Housing aluminum, anodized Lamp cover tempered glass, frosted Mechanical Data Protection degree IP67 Weight ca. 520 g Mating connectors M8 female connectors acc. to IEC 61076-2-104 Electrical Data (at T_{amb} 20 °C) Power consumption 16 W Connected load 24 V DC (-10 %/+15 %) Nominal currect 0.67 A Ш Appliance class Associated products Illuminant LED, energy efficieny class A+ Luminaire luminous flux ca. 1.680 lm ca. 105 lm/W Luminaire luminous efficacy

daylight white

direct, wide radiation, > 120°

ca. 5.500 K

> 80

Light color

Color temperature

Light distribution

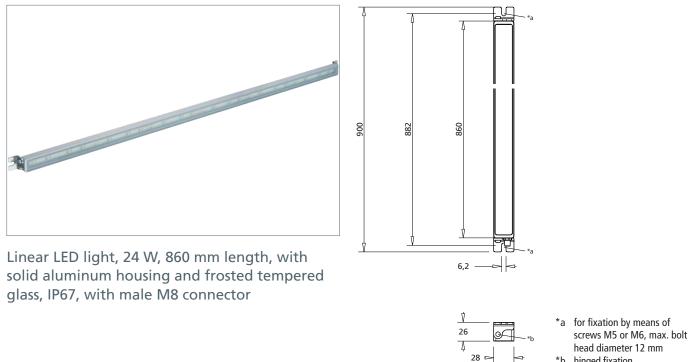
Color rendering index

Designation	Poles	Cable	Cable Lengths [L] in m
6157 8055 S06 16W			

6157 8055 S09 24W

High-power LED lights

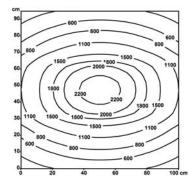
CE



*b hinged fixation

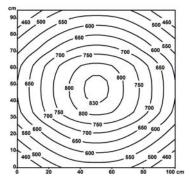
Illuminance with measuring distance 50 cm

Em: 1.168 lx Emax:2.300 lx Emin: 348 lx



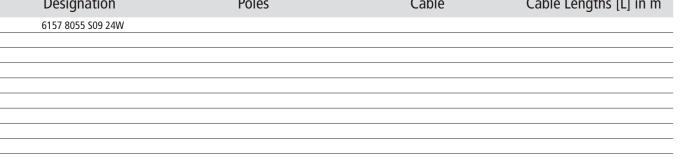
Illuminance with measuring distance 100 cm

Em: 645 lx Emax: 841 lx Emin: 417 lx



6157 8055 S09 24W

nperature Range	≤ 50 °C		
/laterials			
Housing	aluminum, anodized		
Lamp cover	tempered glass, frosted		
Lamp cover	tempered glass, hosted		
Mechanical Data			
Protection degree	IP67		
Weight	ca. 800 g		
Mating connectors	M8 female connectors acc. to		
	IEC 61076-2-104		
Electrical Data (at T _{amb} 2	0 °C)		
Power consumption	24 W		
Connected load	24 V DC (-10 %/+15 %)		
Nominal currect	1 A		
Appliance class	III		
Associated products			
Illuminant	LED, energy efficieny class A+		
Luminaire luminous flux	ca. 2.520 lm		
Luminaire luminous efficacy	ca. 105 lm/W		
Light color	daylight white		
Color temperature	ca. 5.500 K		
Color rendering index	> 80		
Light distribution	direct, wide radiation, $> 120^{\circ}$		
Designation	Poles	Cable	Cable Lengths [L] in



Cable Specifications

					Constru	uction		
Code	Cable No.	Cable Type	UL Style	Approvals	A = Conductor B = Insulation	Single Core		
					C = Jacket	Conductor	C	
001	910001	LiYY	2464	cULus	D = Wrapping	Construction 42 x 0.10 mm = 0.34 mm ² (AWG 22)	Surface blank	
002	910 <u>002</u>	LiYY	2464	cULus		42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank	
003	910 <u>003</u>	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 mm² (AWG 24)	blank	
300	910 <u>300</u>	Li9YH-11YH	20549	cULus		42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank	
301	910 <mark>301</mark>	Li9YH-11YH	20549	cULus		42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank	
302	910 <mark>301</mark>	Li9YH-11YH	20549	cULus		42 x 0.10 mm = 0.34 mm ² (AWG 22)	blank	
303	910 <mark>303</mark>	Li9YH-11YH	20549	cULus		. 32 x 0.10 mm = 0.25 mm² (AWG 24)	blank	

Construction									
Single Core Insulation		Shielding		J	Remarks	Code			
Material	1	Colors	Shickang	Material	Ø	Surface	Color		
PVC	1.50 ±0.05 mm	brown/blue/black	-	PVC	5.00 ±0.2 mm	matt	black RAL 9005		001
PVC	1.50 ±0.05 mm	brown/white/blue/black	-	PVC	5.20 ±0.2 mm	matt	black RAL 9005		002
PVC	1.50 ±0.05 mm	brown/white/blue/black/ green yellow	-	PVC	5.70 ±0.2 mm	matt	black RAL 9005		003
PVC	1.30 ±0.05 mm	white/brown/green/yellow/ gray/pink/blue/red	-	PVC	6.00 ±0.2 mm	matt	black RAL 9005		004
РР	1.30 ±0.05 mm	brown/blue/black	-	PUR	4.30 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	300
РР	1.30 ±0.05 mm	brown/white/blue/black	-	PUR	4.70 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	301
РР	1.30 ±0.05 mm	brown/white/blue/black/ green yellow	-	PUR	5.70 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	302
РР	1.17 ±0.05 mm	white/brown/green/yellow/ gray/pink/blue/red	-	PUR	6.00 ±0.2 mm	matt	black RAL 9005	entire cable halogen-free	303

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					Construction		
Code	Cable No.	Cable Type	UL Style	Approvals		Single Core	
						Conductor	1
						Construction	Surface
307	910 <mark>307</mark>	Li9YH-11YH	20549	cULus	44 x 0.08 m 100 x 0.08 r	nm = 0.25 mm² (AWG 24) nm = 0.50 mm² (AWG 21)	blank
308	910 <u>308</u>	Li9YH-11YH	20549	cULus	44 x 0.08 m 100 x 0.08 r	nm = 0.25 mm² (AWG 24) nm = 0.50 mm² (AWG 21)	blank
311	910 <mark>311</mark>	Li9YH-11YH	20549	cULus	65 x 0.08 m 150 x 0.08 r	nm = 0.34 mm² (AWG 22) nm = 0.75 mm² (AWG 20)	blank
312	910 <mark>312</mark>	Li9YH-11YH	20549	cULus	65 x 0.08 m 150 x 0.08 r	nm = 0.34 mm² (AWG 22) nm = 0.75 mm² (AWG 20)	blank
313	910 <mark>313</mark>	Li9YH-11YH	20549	cULus	65 x 0.08 m 150 x 0.08 r	nm = 0.34 mm² (AWG 22) mm = 0.75 mm² (AWG 20)	blank
314	910 <mark>314</mark>	Li9YH-11YH	20549	cULus	65 x 0.08 m 150 x 0.08 r	nm = 0.34 mm² (AWG 22) mm = 0.75 mm² (AWG 20)	blank
315	910 <mark>315</mark>	Li9YH-11YH	20549	cULus	32 x 0.10 m	nm = 0.25 mm² (AWG 24)	blank
317	910 <mark>317</mark>	Li9YH-11YH	20549	cULus	44 x 0.08 m 100 x 0.08 r	nm = 0.25 mm² (AWG 24) nm = 0.50 mm² (AWG 21)	blank

Construction									
		igle Core sulation	Shiel- Jacket					Remarks	Code
Material	Ø	Colors	ding	Material	Ø	Surface	Color		
РР	1.25 ±0.10 mm 1.60 ±0.10 mm	white/green/yellow/gray (0.22 mm²) brown/black (0.50 mm²)	-	PUR	6.80 ±0.3 mm	matt	gray RAL 7001	entire cable halogen-free	307
РР	1.25 ±0.10 mm 1.60 ±0.10 mm	white/green/yellow/gray/pink/ red/blue/violet (0.22 mm²) brown/black (0.50 mm²)	-	PUR	8.00 ±0.3 mm	matt	gray RAL 7001	entire cable halogen-free	308
РР	1.60 ±0.10 mm 1.90 ±0.10 mm	white/green/yellow/gray (0.34 mm ²) brown/blue/green/yellow (0.75 mm ²)	-	PUR	8.00 ±0.4 mm	matt	gray RAL 7001	entire cable halogen-free	311
РР	1.60 ±0.10 mm 1.90 ±0.10 mm	white/green/yellow/gray/pink/ red/black/violet (0.34 mm ²) blue/brown/green-yellow (0.75 mm ²)	-	PUR	9.60 ±0.4 mm	matt	gray RAL 7001	entire cable halogen-free	312
РР	1.60 ±0.10 mm 1.90 ±0.10 mm	green/white-green/yellow/brown- gray/pink-gray/white/red-blue/ gray/white-yellow/pink/yellow- brown/red/white-gray/black/ gray-brown/violet (0.34 mm ²) yellow/green/brown/blue (0.75 mm ²)	-	PUR	10.00 ±0.35 mm	matt	gray RAL 7001	entire cable halogen-free	313
РР	1.60 ±0.10 mm 1.90 ±0.10 mm	white/green/yellow/gray/gray- pink/red-blue/white-green/ brown-green (0.34 mm ²) brown/blue/yellow/green (0.75 mm ²)	-	PUR	9.60 ±0.4 mm	matt	gray RAL 7001	entire cable halogen-free	314
РР	1.17 ±0.05 mm	brown/blue/white/green/pink/ yellow/black/gray/red/violet/ gray-pink/red-blue	-	PUR	6.40 ±0.2 mm	matt	black RAL 9005		315
РР	1.25 ±0.10 mm 1.60 ±0.10 mm	white/green/yellow/gray/pink/ red/blue/violet/gray-pink/red- blue (0.22 mm²) brown/blue (0.50 mm²)	-	PUR	8.00 ±0.3 mm	matt	gray RAL 7001	entire cable halogen-free	317

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)

Protection Classes

CODE LET (Internation Protection	onal (foreign bodies			ND INDEX FIG r protecion)	URE
IP	6		8		
INDE	X DEGREE OF PROTE	CTION	IND	EX	DEGREE OF PROTECTION
0		inst accidental contact, inst solid foreign bodies	0		No protection against water
1	Protection against area by hand and bodies with Ø > 50	contact with any large against solid foreign 0 mm	1		Protection against vertical water drips
2	Protection against protection against Ø > 12 mm	contact with the fingers, solid foreign bodies with	2	H	Protection against diagonal water drips (up to a 15° angle)
3	jects with Ø > 2.5	tools, wires or similar ob- mm, protection against es with Ø > 2.5 mm	3	A	Protection against diagonal water drips (up to a 60° angle)
4	As 3, however Ø >	· 1 mm	4		Protection against water (out of a nozzle) from all directions
5	Full protection aga against interior inj	ainst contact, protection jurious dust deposits	5		Full protection against contact, protection against interior injurious dust deposits
6	Total protection against penetratio	gainst contact, protection n of dust	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
Diagra	am in accordance with DIN VDE 470-1,	DIN EN 60529, IEC 60529	9		Protected against close-range high pressure, high temperature spray downs

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