

ifm electronic



# Connection technology from ifm.

Connection technology  
[www.ifm.com/gb/connect](http://www.ifm.com/gb/connect)



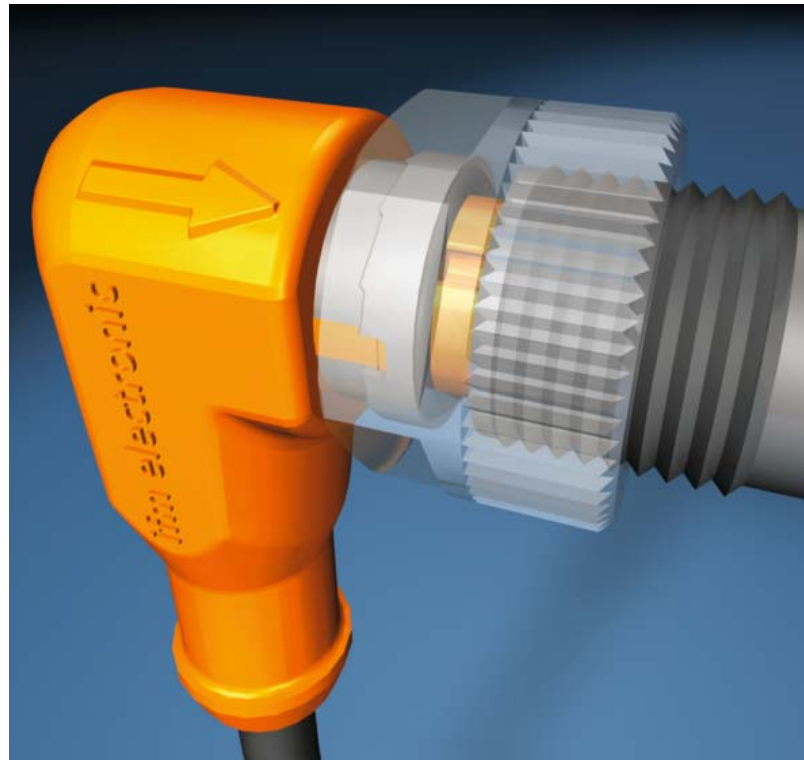
# The right choice for reliable connections.

## ecolink M12.

**Cannot be overtightened!** Due to the special installation of a mechanical end stop the O-ring is always correctly compressed and so permanently maintains its sealing function.

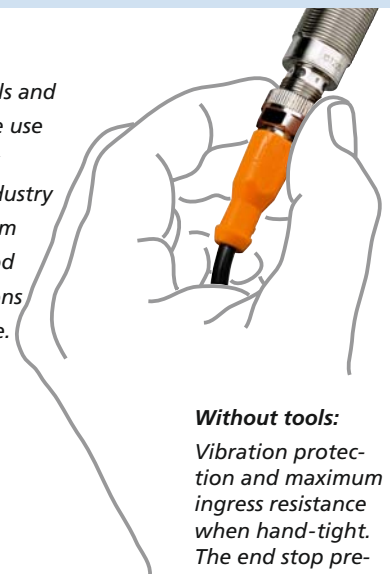
**Vibration protection!** The saw-tooth type contour ensures that the nut is securely positioned. During mounting the nut slides easily over the flat edge. So safe sealing is achieved during manual mounting. The steep edge of the contour protects the nut against unintentional loosening. The connector remains securely positioned on the unit even in case of extreme vibration and impacts.

**Clearly visible!** Novel design and a transparent black housing ensure that even in bright lighting conditions the LEDs are more clearly visible than with the clear transparent versions. This is an important prerequisite to keep an eye on the plant process all the time and to be able to act quickly in case of problems.



### Vibration protection with end stop

**The specialists!** High-quality materials and an innovative sealing concept enable use in special applications – from factory automation via the machine-tool industry through to welding applications, from oils and coolants to hygienic and food applications. Even in ATEX applications ecolink ensures high machine uptime.



**Without tools:** Vibration protection and maximum ingress resistance when hand-tight. The end stop prevents an overtightening.

**Tested to extremes:** The temperature shock test simulates CIP processes and verifies the ageing resistance.







## The new quality standard in connection technology.

### Sealed:

The innovative sealing concept provides the high protection ratings IP 67 / IP 68 / IP 69K for M12 and even M8 connectors.

### Held in place:

The saw-tooth type vibration protection ensures that the nut does not become loose unintentionally in case of shock and vibration.

### By hand:

Easy to install and remove manually. The integrated end stop protects the O-ring from an excessive compression.

### Visible:

Versions in a transparent black housing for an optimum visibility of the LED even in bright lighting conditions.

### Standardised:

The connection technology meets the M8 and M12 standard EN 61076.

### Special:

In addition to the standard series for industrial applications you can choose special versions adapted to your application.

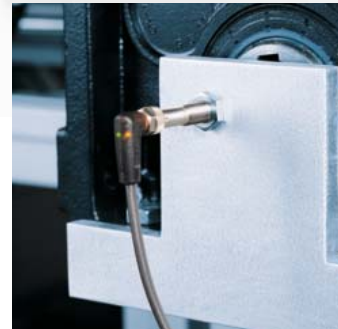
### ecolink M8.

*For demanding applications:* So far only M12 connectors could be used in difficult applications. For the first time the new ecolink M8 series provides all advantages of the ecolink M12 series for standardised M8 connectors (EN 61076).

*Without tools:* The innovative profiled sealing ring seals radially and axially, guaranteeing a high protection rating. No tools needed for installation and removal.

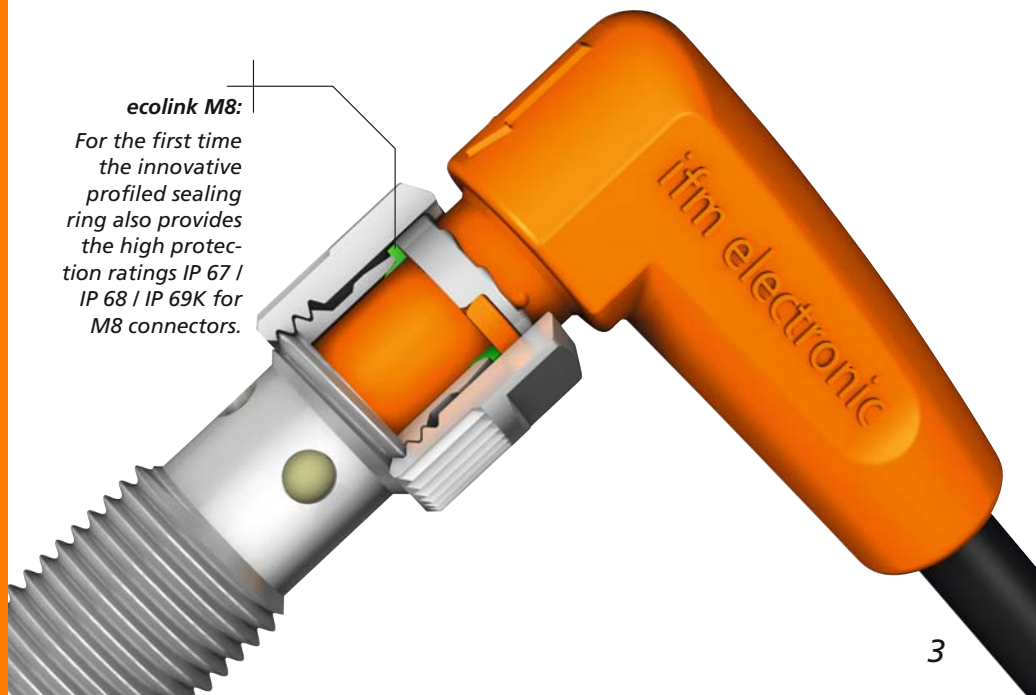
*Permanently ingress-resistant:* The asymmetrically acting vibration protection holds the nut tight in its position, guaranteeing an optimum and permanent seal.

*High quality standard:* High-quality materials especially adapted to the application and intensive monitoring during and after production guarantee maximum quality standards.



### An eye on the plant process:

Even in bright lighting conditions the LEDs are clearly visible in the transparent black version.



#### ecolink M8:

For the first time the innovative profiled sealing ring also provides the high protection ratings IP 67 / IP 68 / IP 69K for M8 connectors.

# The right choice for reliable connections.



**For industrial applications:**  
High-quality materials adapted to the requirements in industrial environments.



**For oils and coolants:**  
With PUR housing, cable with full PUR sheath, Viton seals and gold contacts, these products set new standards for the harsh operating conditions of the machine tool industry.

- Page 6 Wirable plugs and sockets
- Page 7-9 Sockets with cable
- Page 10-16 Jumpers
- Page 17 Y splitters M12
- Page 18 Splitter boxes M12
- Page 19 Splitter boxes M8



**For hygienic and wet areas:**  
Housings and cables made of PVC, gold contacts and high-grade stainless steel nuts are the best prerequisite for a long life in the special applications of the hygienic and food industry.

- Page 20-21 Sockets with cable
- Page 22-25 Jumpers



**ecolink EVT – resistant to chemical influence and temperature shocks.**



**ecolink EVC – the standard series for industrial applications. Resistant to oils and greases.**







## Adapted to your application conditions.



**For sensors in robust applications:**  
The saw tooth contoured vibration protection secures against strong shocks and vibrations. The high protection rating IP 67 / IP 68 / IP 69K, the wide temperature range of -40...90 °C as well as high-quality housing materials (high-grade stainless steel, TPU) ensure a long-term safe connection in harsh environments such as salty moisture, oil, grease and coolants.

Page 26    Sockets with cable



**For electromagnetic fields:**  
In welding equipment weld-slag resistant, halogen-free PUR cables and coupling nuts with special coating provide a maximum protection from weld spatter. A special polyester fleece strip foil in the cable ensures a long life even in case of high torsional stress, for example in robot arms.

Page 27    Sockets with cable  
Page 28    Jumpers

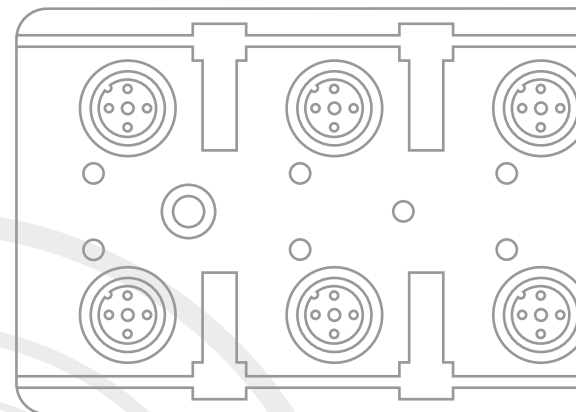


**For hazardous areas:**  
The connectors comply with the strict requirements of the standard and are therefore allowed for use in ATEX areas. Approval body DEKRA EXAM, notified in Germany, has type-tested and certified the connectors. The EC type examination certificate for components is valid in all EU countries.

Page 29    Sockets with cable, jumpers  
Page 30    Sockets with cable



ecolink EVM – the robust connection for sensors in harsh environments.



ecolink EVW – thanks to a non-stick coating resistant to weld spatter.

You can find the new generation of ifm connection technology under this product logo:





For industrial applications



For oils and coolants

## Wirable plugs and sockets M12, M18, M23, RD24

Type	Pin assignment	Order no.	Type	Pin assignment	Order no.
<b>Plug M12 4-pole · 5-pole</b>			<b>Plug M12 4-pole · 5-pole</b>		
		E11504			E11505
		E11506			E11507
<b>Socket M12 4-pole · 5-pole</b>			<b>Socket M12 4-pole · 5-pole</b>		
		E11508			E11509
					E11510
		E11511			E11512
<b>Socket M18 4-pole</b>			<b>Socket M18 4-pole</b>		
		E10137			E10013
<b>Socket M23 12-pole · 19-pole</b>			<b>Socket M23 12-pole · 19-pole</b>		
		E10448			E10447
		E10887			E10886
<b>Socket RD24 7-pole</b>			<b>Socket RD24 7-pole</b>		
		E70142			E11043

### Wiring diagram / Wire specification

Plug	
PIN	screw terminals
Connection	selectable

0.75 mm<sup>2</sup>, Ø 4...6 mm

Socket	
PIN	screw terminals
Connection	selectable

0.75 mm<sup>2</sup>, Ø 4...6 mm

LED:  
signal yellow, operating voltage green

Socket	
PIN	screw terminals
Connection	selectable

0.75 mm<sup>2</sup>, Ø 6...8 mm

Socket	
PIN	soldering
Connection	selectable

1 mm<sup>2</sup>, Ø 10...14 mm

Socket	
PIN	screw terminals
Connection	selectable

2.5 mm<sup>2</sup>, Ø 6...9.5 mm

### Technical data

Type	Operating voltage / Operating voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protec- tion	Housing material	Locking material	Tightening torque [Nm]
M12 4-pole	250 AC, 300 DC / 10...30 DC	4	-25...100	IP 68	PA	CuZn/Ni	0.6...0.7
M12 5-pole	125 AC/DC	4	-40...85	IP 65	PA	PA	–
M18	250 AC/DC	4	-40...85	IP 65	PA	PA	–
M23	10...30 DC	7.5	-25...90	IP 65	CuZn/Ni	CuZn/Ni	–
RD24	250 AC, 300 DC	3	-40...100	IP 67	PBT	PBT	–



## Sockets M8, M12



Type	Pin assignment	Cable [m]	LEDs	Order no.
<b>Socket M8 3-pole</b>				
		2	–	<b>EVC141</b>
		5	–	<b>EVC142</b>
		10	–	<b>EVC143</b>
		2	–	<b>EVC144</b>
		5	–	<b>EVC145</b>
		10	–	<b>EVC146</b>
		2	•	<b>EVC147</b>
		5	•	<b>EVC148</b>
		10	•	<b>EVC149</b>
<b>Socket M8 4-pole</b>				
		2	–	<b>EVC150</b>
		5	–	<b>EVC151</b>
		10	–	<b>EVC152</b>
		2	–	<b>EVC153</b>
		5	–	<b>EVC154</b>
		10	–	<b>EVC155</b>
<b>Socket M12 4-pole</b>				
		2	–	<b>EVC001</b>
		5	–	<b>EVC002</b>
		10	–	<b>EVC003</b>
		2	–	<b>EVC004</b>
		5	–	<b>EVC005</b>
		10	–	<b>EVC006</b>
		2	•	<b>EVC007</b>
		5	•	<b>EVC008</b>
		10	•	<b>EVC009</b>
<b>Socket M12 5-pole</b>				
		2	–	<b>EVC070</b>
		5	–	<b>EVC071</b>
		10	–	<b>EVC072</b>
		2	–	<b>EVC073</b>
		5	–	<b>EVC074</b>
		10	–	<b>EVC075</b>

### Wiring diagram / Wire specification

Socket			
PIN	1	2	3
Colours	BN	WH	BU

PUR cable black, halogen-free  
3 x 0.34 mm<sup>2</sup>, Ø 5 mm  
3 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

LED: signal yellow, operating voltage green

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free  
4 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PUR cable black, halogen-free  
5 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...85	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.3...0.5
M12 4-pole	250 AC, 300 DC / 10...36 DC	4	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5
M12 5-pole	36 DC	4	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5

<sup>1)</sup>cRUus: max. 50 °C





For industrial applications



For oils and coolants

## Sockets M12, screened

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
<b>Socket M12 4-pole screen not connected</b>					
			2	–	EVC526
			5	–	EVC527
			10	–	EVC528
			2	–	EVC529
			5	–	EVC530
			10	–	EVC531
<b>Socket M12 5-pole screen not connected</b>					
			2	–	EVC532
			5	–	EVC533
			10	–	EVC534
			2	–	EVC535
			5	–	EVC536
			10	–	EVC537
<b>Socket M12 4-pole screen connected</b>					
			2	–	EVC538
			5	–	EVC539
			10	–	EVC540
			2	–	EVC541
			5	–	EVC542
			10	–	EVC543
<b>Socket M12 5-pole screen connected</b>					
			2	–	EVC544
			5	–	EVC545
			10	–	EVC546
			2	–	EVC547
			5	–	EVC548
			10	–	EVC549

## Wiring diagram / Wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free, screened  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PUR cable black, halogen-free, screened  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free, screened  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PUR cable black, halogen-free, screened  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

## Technical data

Type	Operating voltage [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12 4-pole	50 AC / 60 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5
M12 5-pole	30 AC / 36 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5





<sup>1)</sup>cRUus: max. 75 °C <sup>2)</sup>cRUus 3A




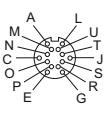
## Sockets M12, M16, M23

Type	Pin assignment	Cable [m]	Order no.
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### Socket M12 8-pole

		5	–
		10	<b>E11311</b>
		2	<b>E11231</b>
		5	<b>E11232</b>


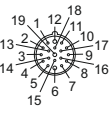

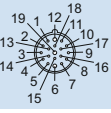
### Socket M16 14-pole, 8-wire

		5	<b>E11226</b>
		10	<b>E11227</b>

### Socket M23 12-pole

		5	<b>E11736</b>
		10	<b>E11737</b>
		15	<b>E11738</b>
		5	<b>E11739</b>
		10	<b>E11740</b>
		15	<b>E11741</b>

### Socket M23 19-pole

		5	<b>E11742</b>
		10	<b>E11743</b>
		15	<b>E11744</b>
		5	<b>E11745</b>
		10	<b>E11746</b>
		15	<b>E11747</b>

## Wiring diagram / Wire specification

Socket								
PIN	1	2	3	4	5	6	7	8
Colours	BN	WH	BU	BK	GY	PK	VT	OG

PUR cable black  
8 x 0.25 mm<sup>2</sup>, Ø 6.2 mm

Socket										
PIN	A	C	E	J	L	N	O	P	S	T
Colours	BN	WH GN	GY PK	GN	BU	GN BN	RD BU	WH	GY	YE

PUR cable black  
8 x 0.34 mm<sup>2</sup> and 2 x 0.75 mm<sup>2</sup>, Ø 9.1 mm

Socket												
PIN	1	2	3	4	5	6	7	8	9	10	11	12
Colours	WH	GN	YE	GY	GY PK	RD BU	WH GN	BN GN	BU	BU	BN	YE GN

PUR cable black  
8 x 0.5 mm<sup>2</sup> and 3 x 1 mm<sup>2</sup>, Ø 9.3 mm

Socket												
PIN	1	2	3	4	5	6	7	8	9	10	11	12
Colours	VT	RD	GY	RD BU	GN	BU	GY PK	WH GN	WH YE	WH GY	BK	YE GN

PIN	13	14	15	16	17	18	19
Colours	YE BN	BN GN	WH	YE	PK	GY BN	BN

PUR cable black  
16 x 0.5 mm<sup>2</sup> and 3 x 1 mm<sup>2</sup>, Ø 11.6 mm

## Technical data

Type	Operating voltage / Operating voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12 8-pole	30 AC, 36 DC	3	-25...80	IP 68	PUR	CuZn/Ni	0.7...0.9
M16 8-pole	30 DC	3	-25...90	IP 68	PUR	CuZn/Ni	–
M23	63 AC/DC	8	-25...80	IP 67	PUR	CuZn/Ni	–



For industrial applications



For oils and coolants

## Jumpers M8

eco link	Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M8 3-pole · Socket M8 3-pole</b>						
				0.3	–	EVC265
				0.6	–	EVC266
				1	–	EVC267
				2	–	EVC268
				5	–	EVC269
				0.3	–	EVC275
				0.6	–	EVC276
				1	–	EVC277
				2	–	EVC278
				5	–	EVC279
				0.3	•	EVC280
				0.6	•	EVC281
				1	•	EVC282
				2	•	EVC283
				5	•	EVC284
<b>Plug M8 3-pole · Socket M8 4-pole</b>						
				0.3	–	EVC270
				0.6	–	EVC271
				1	–	EVC272
				2	–	EVC273
				5	–	EVC274
				0.3	–	EVC260
				0.6	–	EVC261
				1	–	EVC262
				2	–	EVC263
				5	–	EVC264

## Wiring diagram / Wire specification

Plug	Socket			
	PIN	1	3	4
	1	BN		
	3		BU	
	4			BK

PUR cable black  
3 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

LED: signal yellow, operating voltage green

Plug	Socket				
	PIN	1	2	3	4
	1	BN			
	3			BU	
	4				BK

PUR cable black, halogen-free  
3 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

## Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.3...0.5





## Jumpers M8, M12



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M8 3-pole · Socket M12 4-pole</b>					
			0.3	–	EVC255
			0.6	–	EVC256
			1	–	EVC257
			2	–	EVC258
			5	–	EVC259
			0.3	–	EVC245
			0.6	–	EVC246
			1	–	EVC247
			2	–	EVC248
			5	–	EVC249
			0.3	•	EVC250
			0.6	•	EVC251
			1	•	EVC252
			2	•	EVC253
			5	•	EVC254
<b>Plug M8 4-pole · Socket M8 3-pole</b>					
			0.3	–	EVC305
			0.6	–	EVC306
			1	–	EVC307
			2	–	EVC308
			5	–	EVC309
			0.3	–	EVC315
			0.6	–	EVC316
			1	–	EVC317
			2	–	EVC318
			5	–	EVC319
<b>Plug M8 4-pole · Socket M8 4-pole</b>					
			0.3	–	EVC310
			0.6	–	EVC311
			1	–	EVC312
			2	–	EVC313
			5	–	EVC314
			0.3	–	EVC300
			0.6	–	EVC301
			1	–	EVC302
			2	–	EVC303
			5	–	EVC304

### Wiring diagram / Wire specification

		Socket			
Plug	PIN	1	3	4	
	1	BN			
	3	BU			
	4				BK

PUR cable black, halogen-free  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

		Socket			
Plug	PIN	1	3		4
	1	BN			
	2				
	3	BU			
	4				BK

PUR cable black, halogen-free  
3 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

		Socket			
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3	BU			
	4				BK

PUR cable black, halogen-free  
4 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.3...0.5
M12	50 AC, 60 DC / 10...36 DC	3	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5

<sup>1)</sup>cRUus: max. 50 °C



For industrial applications



For oils and coolants

## Jumpers M8, M12

eco link	Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M8 4-pole · Socket M12 4-pole</b>						
				0.3	–	EVC295
				0.6	–	EVC296
				1	–	EVC297
				2	–	EVC298
				5	–	EVC299
				0.3	–	EVC285
				0.6	–	EVC286
				1	–	EVC287
				2	–	EVC288
				5	–	EVC289
				0.3	•	EVC290
				0.6	•	EVC291
				1	•	EVC292
				2	•	EVC293
				5	•	EVC294
<b>Plug M12 3-pole · Socket M8 3-pole</b>						
				0.3	–	EVC215
				0.6	–	EVC216
				1	–	EVC217
				2	–	EVC218
				5	–	EVC219
				0.3	–	EVC230
				0.6	–	EVC231
				1	–	EVC232
				2	–	EVC233
				5	–	EVC234
				0.3	•	EVC225
				0.6	•	EVC226
				1	•	EVC227
				2	•	EVC228
				5	•	EVC229

### Wiring diagram / Wire specification

	Socket				
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3			BU	
	4				BK

PUR cable black, halogen-free  
4 x 0.25 mm<sup>2</sup>, Ø 3.7 mm

LED: signal yellow, operating voltage green

	Socket			
Plug	PIN	1	3	4
	1	BN		
	3	BU		
	4	BK		

PUR cable black, halogen-free  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.3...0.5
M12	50 AC, 60 DC / 10...36 DC	3	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5 <sup>3)</sup>

<sup>1)</sup>cRUus: max. 50 °C <sup>3)</sup>adhere to the maximum value of the counterpart



## Jumpers M12, M8



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M12 3-pole · Socket M8 4-pole</b>					
			0.3	–	EVC220
			0.6	–	EVC221
			1	–	EVC222
			2	–	EVC223
			5	–	EVC224
			0.3	–	EVC210
			0.6	–	EVC211
			1	–	EVC212
			2	–	EVC213
			5	–	EVC214
<b>Plug M12 4-pole · Socket M8 4-pole</b>					
			0.3	–	EVC240
			0.6	–	EVC241
			1	–	EVC242
			2	–	EVC243
			5	–	EVC244
			0.3	–	EVC235
			0.6	–	EVC236
			1	–	EVC237
			2	–	EVC238
			5	–	EVC239
<b>Plug M12 3-pole · Socket M12 3-pole</b>					
			0.3	–	EVC040
			0.6	–	EVC041
			1	–	EVC042
			2	–	EVC043
			5	–	EVC044
			0.3	–	EVC045
			0.6	–	EVC046
			1	–	EVC047
			2	–	EVC048
			5	–	EVC049
			0.3	•	EVC050
			0.6	•	EVC051
			1	•	EVC052
			2	•	EVC053
			5	•	EVC054

### Wiring diagram / Wire specification

		Socket			
Plug	PIN	1	2	3	4
	1	BN			
	3	BU			
	4				BK

PUR cable black, halogen-free  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

		Socket			
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3	BU			
4				BK	

PUR cable black, halogen-free  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

		Socket		
Plug	PIN	1	3	4
	1	BN		
	3	BU		
	4			BK

PUR cable black, halogen-free  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.3...0.6
M12	50 AC, 60 DC / 10...36 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5 <sup>3)</sup>

<sup>1)</sup>cRUUs: max. 50 °C <sup>2)</sup>cRUUs 3A <sup>3)</sup>adhere to the maximum value of the counterpart





For industrial applications



For oils and coolants

## Jumpers M12

eco link	Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M12 4-pole · Socket M12 4-pole</b>						
				0.3	–	<b>EVC010</b>
				0.6	–	<b>EVC011</b>
				1	–	<b>EVC012</b>
				2	–	<b>EVC013</b>
				5	–	<b>EVC014</b>
				0.3	–	<b>EVC015</b>
				0.6	–	<b>EVC016</b>
				1	–	<b>EVC017</b>
				2	–	<b>EVC018</b>
				5	–	<b>EVC019</b>
				0.3	•	<b>EVC020</b>
				0.6	•	<b>EVC021</b>
				1	•	<b>EVC022</b>
				2	•	<b>EVC023</b>
				5	•	<b>EVC024</b>
				0.3	–	<b>EVC025</b>
				0.6	–	<b>EVC026</b>
				1	–	<b>EVC027</b>
				2	–	<b>EVC028</b>
				5	–	<b>EVC029</b>
				0.3	–	<b>EVC030</b>
				0.6	–	<b>EVC031</b>
				1	–	<b>EVC032</b>
				2	–	<b>EVC033</b>
				5	–	<b>EVC034</b>
				0.3	•	<b>EVC035</b>
				0.6	•	<b>EVC036</b>
				1	•	<b>EVC037</b>
				2	•	<b>EVC038</b>
				5	•	<b>EVC039</b>

### Wiring diagram / Wire specification

		Socket			
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3	BU			
	4	BK			

PUR cable black, halogen-free  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

LED: signal yellow, operating voltage green

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12	250 AC, 300 DC / 10...36 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	CuZn/Ni	0.6...1.5 <sup>3)</sup>

<sup>1)</sup>cRUus: max. 50 °C <sup>2)</sup>cRUus 3A <sup>3)</sup>adhere to the maximum value of the counterpart



## Jumpers M12



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M12 5-pole · Socket M12 5-pole</b>					
			0.3	–	<b>EVC055</b>
			0.6	–	<b>EVC056</b>
			1	–	<b>EVC057</b>
			2	–	<b>EVC058</b>
			5	–	<b>EVC059</b>
			0.3	–	<b>EVC060</b>
			0.6	–	<b>EVC061</b>
			1	–	<b>EVC062</b>
			2	–	<b>EVC063</b>
			5	–	<b>EVC064</b>
			0.3	–	<b>EVC065</b>
			0.6	–	<b>EVC066</b>
			1	–	<b>EVC067</b>
			2	–	<b>EVC068</b>
			5	–	<b>EVC069</b>

### Wiring diagram / Wire specification

		Socket				
Plug	PIN	1	2	3	4	5
	1	BN				
	2	WH				
	3	BU				
	4	BK				
	5	GY				

PUR cable black, halogen-free  
5 x 0.34 mm<sup>2</sup>, Ø 4.9 mm



### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
------	--	--------------------	----------------------------	------------	------------------	------------------	------------------------

M12

30 AC, 36 DC

4<sup>2)</sup>

-25...90<sup>1)</sup>

IP 67/IP 68/IP 69K

PUR

CuZn/Ni

0.6...1.5<sup>3)</sup>

<sup>1)</sup>cRUus: max. 50 °C <sup>2)</sup>cRUus 3A <sup>3)</sup>adhere to the maximum value of the counterpart



For industrial applications



For oils and coolants

## Jumpers M12 plug / valve plug

Type	Pin assignment plug	Pin assignment DIN-plug	Version	Cable [m]	Order no.
<b>Plug M12 3-pole · Valve plug 3-pole</b>					
			DIN A	0.3	<b>E11416</b>
				0.6	<b>E11417</b>
				1	<b>E11418</b>
				2	<b>E11419</b>
				5	<b>E11420</b>
			DIN B	0.3	<b>E11421</b>
				0.6	<b>E11422</b>
				1	<b>E11423</b>
				2	<b>E11424</b>
				5	<b>E11425</b>
			DIN C	0.3	<b>E11426</b>
				0.6	<b>E11427</b>
				1	<b>E11428</b>
				2	<b>E11429</b>
				5	<b>E11430</b>
<b>Plug M12 3-pole · Valve plug 3-pole</b>					
			Industrial standard B	0.3	<b>E11431</b>
				0.6	<b>E11432</b>
				1	<b>E11433</b>
				2	<b>E11434</b>
				5	<b>E11435</b>
			Industrial standard C	0.3	<b>E11436</b>
				0.6	<b>E11437</b>
				1	<b>E11438</b>
				2	<b>E11439</b>
				5	<b>E11440</b>

## Wiring diagram / Wire specification

Plug	Socket			
	PIN	1	2	PE
	3	BN		
	4	BU		
	5	YE/GN		

PUR cable black  
3 x 0.5 mm<sup>2</sup>, Ø 5 mm

LED: signal yellow

Plug	Socket			
	PIN	1	2	PE
	3	BN		
	4	BU		
	5	YE/GN		



















PUR cable black  
3 x 0.5 mm<sup>2</sup>, Ø 5 mm

## Technical data

Type	Operating voltage [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
Plug M12	250 AC, 300 DC	4	-25...85	IP 68	PUR	CuZn/Ni	0.7...0.9
Valve plug	24 AC/DC	3	-25...80	IP 67	PUR	CuZn/Ni	–

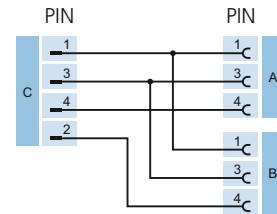


## Y splitters M12

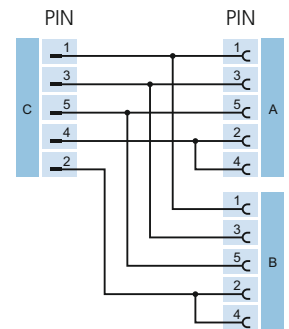
eco link	Type	Pin assignment	Pin assignment	Signals on pin	Order no.
<b>Y splitters plug M12 · 2 sockets M12</b>					
				4	<b>EBC113</b>
				2 and 4 with PE	<b>EBC114</b>
				4 with PE	<b>EBC115</b>
				2 and 4 with PE	<b>EBC116</b>
				2 with PE	<b>EBC117</b>
				4 with PE	<b>EBC118</b>

## Wiring diagram / Wire specification

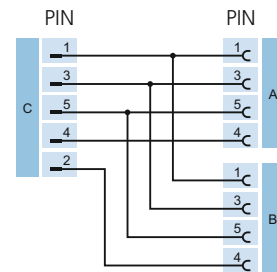
**EBC113**



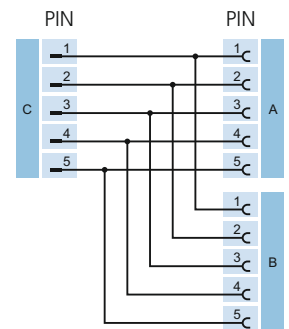
**EBC114**



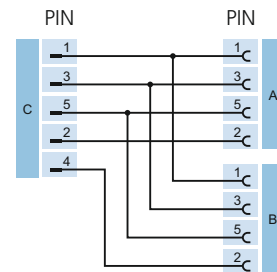
**EBC115**



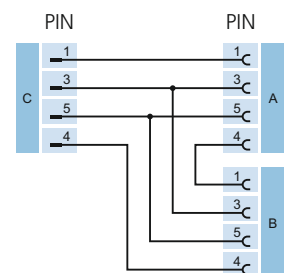
**EBC116**



**EBC117**



**EBC118**



## Technical data

Type	Operating voltage [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
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Plug / socket M12

250 AC, 300 DC

4

-25...90

IP 67/IP 68/IP 69K

PA

CuZn/Ni

0.6...1.5<sup>3)</sup>

<sup>3)</sup>adhere to the maximum value of the counterpart



For industrial applications



For oils and coolants

## Passive splitter boxes with M12 locations

Type	Pin assignment	Signals on pin	LED	Connection/ Cable [m]	Order no.
<b>Splitter boxes with cable</b>					
		4	–	5	<b>EBC013</b>
			–	10	<b>EBC025</b>
			•	5	<b>EBC015</b>
			•	10	<b>EBC027</b>
		2 and 4	–	5	<b>EBC014</b>
			–	10	<b>EBC026</b>
			•	5	<b>EBC016</b>
			•	10	<b>EBC028</b>
		4	–	5	<b>EBC017</b>
			–	10	<b>EBC029</b>
			•	5	<b>EBC019</b>
			•	10	<b>EBC031</b>
		2 and 4	–	5	<b>EBC018</b>
			–	10	<b>EBC030</b>
			•	5	<b>EBC020</b>
			•	10	<b>EBC032</b>
		4	–	5	<b>EBC021</b>
			–	10	<b>EBC033</b>
			•	5	<b>EBC023</b>
			•	10	<b>EBC035</b>
		2 and 4	–	5	<b>EBC022</b>
			–	10	<b>EBC034</b>
			•	5	<b>EBC024</b>
			•	10	<b>EBC036</b>
<b>Splitter boxes with connector</b>					
		4	–	M23	<b>EBC001</b>
			•		<b>EBC002</b>
			–		<b>EBC003</b>
			•		<b>EBC004</b>
		2 and 4	–	M23	<b>EBC005</b>
			•		<b>EBC006</b>
			–		<b>EBC007</b>
			•		<b>EBC008</b>
		4	–	M23	<b>EBC009</b>
			•		<b>EBC010</b>
			–		<b>EBC011</b>
			•		<b>EBC012</b>

## Wiring diagram / Wire specification

Location no.	PIN	Plug				
		1 L+	3 L-	4 signal	2 signal	PE
1	1	BN	BU	WH	GY/PK	GN/YE
2	2	BN	BU	GN	RD/BU	GN/YE
3	3	BN	BU	YE	WH/GN	GN/YE
4	4	BN	BU	GY	BN/GN	GN/YE
5	5	BN	BU	PK	WH/YE	GN/YE
6	6	BN	BU	RD	YE/BN	GN/YE
7	7	BN	BU	BK	WH/GY	GN/YE
8	8	BN	BU	VT	GY/BN	GN/YE

PUR cable black

LED: signal yellow, operating voltage green

Location no.	PIN	Plug				
		1 L+	3 L-	4 signal	2 signal	PE
1	1	19	6	15	7	12
2	2	19	6	5	4	12
3	3	19	6	16	8	12
4	4	19	6	3	14	12
5	5	19	6	17	9	12
6	6	19	6	2	13	12
7	7	19	6	11	10	12
8	8	19	6	1	18	12

LED: signal yellow, operating voltage green

## Technical data

Connection	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material
Cable	60 AC, 75 DC / 10...30 DC	4 per location, 12 in total	-25...80	IP 67	PA	CuZn/Ni
Plug M23	60 AC, 75 DC / 10...30 DC	4 per location, 12 in total	-25...80	IP 67	PA	CuZn/Ni







## Passive splitter boxes with M8 locations



Type	Pin assignment	Signals on pin	LED	Connection/ Cable [m]	Order no.
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### Splitter box 8 locations 3-pole · Cable



		4	•	5	<b>EBC054</b>
		4	•	10	<b>EBC055</b>

## Wiring diagram / Wire specification

Location no.	PIN	Plug		
		1 L+	3 L-	4 signal
1		BN	BU	GN
2		BN	BU	YE
3		BN	BU	GY
4		BN	BU	PK
5		BN	BU	WH
6		BN	BU	RD
7		BN	BU	BK
8		BN	BU	VT

PUR cable black  
8 x 0.34 mm<sup>2</sup>, 2 x 0.75 mm<sup>2</sup>, Ø 9.1 mm



### Splitter box 8 locations 4-pole · Cable

		2 and 4	•	5	<b>EBC056</b>
		2 and 4	•	10	<b>EBC057</b>

Location no.	PIN	Plug			
		1 L+	3 L-	4 signal	2 signal
1		BN	BU	WH	GY/PK
2		BN	BU	GN	RD/BU
3		BN	BU	YE	WH/GN
4		BN	BU	GY	BN/GN
5		BN	BU	PK	WH/YE
6		BN	BU	RD	YE/BN
7		BN	BU	BK	WH/GY
8		BN	BU	VT	GY/BN



PUR cable black  
16 x 0.34 mm<sup>2</sup>, 2 x 0.75 mm<sup>2</sup>, Ø 9.1 mm

### Splitter box 4 locations 3-pole · Connector

		4	•	M12	<b>EBC050</b>
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Location no.	PIN	Plug		
		1 L+	3 L-	4 signal
1		5	7	1
2		5	7	2
3		5	7	3
4		5	7	4

### Splitter box 4 locations 4-pole · Connector

		2 and 4	•	M16	<b>EBC053</b>
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Location no.	PIN	Plug			
		1 L+	3 L-	4 signal	2 signal
1		A	L	P	E
2		A	L	J	O
3		A	L	T	C
4		A	L	S	N

## Technical data

Operating voltage [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	LED operating voltage	LED indication
10...30 DC	2 per location, 6 in total	-25...90	IP 67	PBT-GF20	CuZn/Ni	green	yellow



For hygienic  
and wet areas

## Sockets M8, M12

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
<b>Socket M8 3-pole</b>					
			5	–	EVT123
			10	–	EVT124
			25	–	EVT125
			5	–	EVT127
			10	–	EVT128
			25	–	EVT129
			5	•	EVT131
			10	•	EVT132
			25	•	EVT133
<b>Socket M8 4-pole</b>					
			5	–	EVT135
			10	–	EVT136
			25	–	EVT137
			5	–	EVT139
			10	–	EVT140
			25	–	EVT141
<b>Socket M12 4-pole</b>					
			5	–	EVT001
			10	–	EVT002
			25	–	EVT003
			5	–	EVT004
			10	–	EVT005
			25	–	EVT006
			5	•	EVT007
			10	•	EVT008
			25	•	EVT009
<b>Socket M12 5-pole</b>					
			5	–	EVT010
			10	–	EVT011
			25	–	EVT012
			5	–	EVT013
			10	–	EVT014
			25	–	EVT015

### Wiring diagram / Wire specification

Socket				
PIN	1	3	4	
Colours	BN	BU	BK	

PVC cable orange  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PVC cable orange  
5 x 0.34 mm<sup>2</sup>, Ø 5.1 mm

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...80	IP 68 / IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.3...0.6
M12 4-pole	250 AC, 300 DC / 10...36 DC	4 <sup>1)</sup>	-25...100	IP 68 / IP 69K	PVC		0.6...1.5
M12 5-pole	30 AC, 36 DC	4 <sup>1)</sup>	-25...100	IP 68 / IP 69K	PVC		0.6...1.5

<sup>1)</sup>cRUus: max. 50 °C



## Sockets M12, screened



Type	Pin assignment	Cable [m]	LEDs	Order no.
<b>Socket M12 4-pole screen not connected</b>				
		2	–	EVT381
		5	–	EVT382
		10	–	EVT383
		25	–	EVT384
		2	–	EVT385
		5	–	EVT386
		10	–	EVT387
		25	–	EVT388
<b>Socket M12 5-pole screen not connected</b>				
		2	–	EVT389
		5	–	EVT390
		10	–	EVT391
		25	–	EVT392
		2	–	EVT393
		5	–	EVT394
		10	–	EVT395
		25	–	EVT396
<b>Socket M12 4-pole screen connected</b>				
		2	–	EVT397
		5	–	EVT398
		10	–	EVT399
		25	–	EVT400
		2	–	EVT401
		5	–	EVT402
		10	–	EVT403
		25	–	EVT404
<b>Socket M12 5-pole screen connected</b>				
		2	–	EVT405
		5	–	EVT406
		10	–	EVT407
		25	–	EVT408
		2	–	EVT409
		5	–	EVT410
		10	–	EVT411
		25	–	EVT412

### Wiring diagram / Wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange, screened  
4 x 0.25 mm<sup>2</sup>, Ø 5.2 mm

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PVC cable orange, screened  
5 x 0.25 mm<sup>2</sup>, Ø 5.2 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange, screened  
4 x 0.25 mm<sup>2</sup>, Ø 5.2 mm

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PVC cable orange, screened  
5 x 0.25 mm<sup>2</sup>, Ø 5.2 mm

### Technical data

Type	Operating voltage [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12 4-pole	50 AC / 60 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	high-grade stainl.	0.6...1.5
M12 5-pole	30 AC / 36 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	steel (316L/1.4404)	0.6...1.5



For hygienic  
and wet areas

## Jumpers M8, M12

eco link	Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M8 3-pole · Socket M8 3-pole</b>						
				0.3	–	EVT142
				0.6	–	EVT143
				1	–	EVT144
				2	–	EVT145
				5	–	EVT146
				10	–	EVT147
				0.3	–	EVT148
				0.6	–	EVT149
				1	–	EVT150
				2	–	EVT151
				5	–	EVT152
				10	–	EVT153
				0.3	•	EVT154
				0.6	•	EVT155
				1	•	EVT156
				2	•	EVT157
				5	•	EVT158
				10	•	EVT159
<b>Plug M8 3-pole · Socket M8 4-pole</b>						
				0.3	–	EVT279
				0.6	–	EVT280
				1	–	EVT281
				2	–	EVT203
				5	–	EVT204
				0.3	–	EVT283
				0.6	–	EVT284
				1	–	EVT285
				2	–	EVT211
				5	–	EVT286
<b>Plug M8 3-pole · Socket M12 4-pole</b>						
				0.3	–	EVT260
				0.6	–	EVT261
				1	–	EVT262
				2	–	EVT263
				0.3	–	EVT265
				0.6	–	EVT266
				1	–	EVT267
				2	–	EVT268
				5	–	EVT269
				10	–	EVT270

## Wiring diagram / Wire specification

Plug	Socket			
	PIN	1	3	4
	1	BN		
	3	BU		
4	BK			

PVC cable orange  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

Plug	Socket				
	PIN	1	2	3	4
	1	BN			
	3	BU			
4				BK	

PVC cable orange  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Plug	Socket				
	PIN	1	2	3	4
	1	BN			
	3	BU			
4				BK	

PVC cable orange  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

## Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...80	IP 67/IP 68/IP 69K	PVC	high-grade stainl.	0.3...0.6
M12	50 AC, 60 DC / 10...36 DC	3	-25...80	IP 67/IP 68/IP 69K	PVC	steel (316L/1.4404)	0.6...1.5



## Jumpers M8



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M8 3-pole · Socket M8 3-pole</b>					
			0.3	–	EVT160
			0.6	–	EVT161
			1	–	EVT162
			2	–	EVT163
			5	–	EVT164
			10	–	EVT165
			0.3	–	EVT166
			0.6	–	EVT167
			1	–	EVT168
			2	–	EVT169
			5	–	EVT170
			10	–	EVT171
			0.3	•	EVT172
			0.6	•	EVT173
			1	•	EVT174
			2	•	EVT175
			5	•	EVT176
			10	•	EVT177
<b>Plug M8 4-pole · Socket M8 4-pole</b>					
			0.3	–	EVT178
			0.6	–	EVT179
			1	–	EVT180
			2	–	EVT181
			5	–	EVT182
			10	–	EVT183
			0.3	–	EVT184
			0.6	–	EVT185
			1	–	EVT186
			2	–	EVT187
			5	–	EVT188
			10	–	EVT189

### Wiring diagram / Wire specification

		Socket			
Plug	PIN	1	3	4	
		1	BN		
		3	BU		
		4	BK		

PVC cable orange  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

		Socket			
Plug	PIN	1	2	3	4
		1	BN		
		2	WH		
		3	BU		
		4	BK		

PVC cable orange  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...80	IP 67/IP 68/IP 69K	PVC	high-grade stainl. steel (316L/1.4404)	0.3...0.6





For hygienic  
and wet areas

## Jumpers M8, M12

eco link	Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Plug M8 4-pole · Socket M8 4-pole</b>						
				0.3	–	EVT190
				0.6	–	EVT191
				1	–	EVT192
				2	–	EVT193
				5	–	EVT194
				10	–	EVT195
				0.3	–	EVT196
				0.6	–	EVT197
				1	–	EVT198
				2	–	EVT199
				5	–	EVT200
				10	–	EVT201
<b>Plug M12 3-pole · Socket M12 3-pole</b>						
				0.3	–	EVT022
				0.6	–	EVT023
				1	–	EVT024
				2	–	EVT025
				5	–	EVT026
				10	–	EVT027
				0.3	–	EVT028
				0.6	–	EVT029
				1	–	EVT030
				2	–	EVT031
				5	–	EVT032
				10	–	EVT033
				0.3	•	EVT034
				0.6	•	EVT035
				1	•	EVT036
				2	•	EVT037
				5	•	EVT038
				10	•	EVT039
				0.3	–	EVT079
				0.6	–	EVT110
				1	–	EVT111
				2	–	EVT112
				5	–	EVT113
				10	–	EVT114

## Wiring diagram / Wire specification

Plug	Socket				
	PIN	1	2	3	4
1	BN				
2		WH			
3				BU	
4					BK

PVC cable orange  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Plug	Socket			
	PIN	1	3	4
1	BN			
3			BU	
4				BK

PVC cable orange  
3 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

## Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC	4	-25...80	IP 67/IP 68/IP 69K	PVC	high-grade stainl.	0.3...0.6
M12	250 AC, 300 DC / 10...36 DC	4 <sup>1)</sup>	-25...100	IP 67/IP 68/IP 69K	PVC	steel (316L/1.4404)	0.6...1.5 <sup>3)</sup>

<sup>1)</sup>cRUUs: max. 50 °C <sup>3)</sup>adhere to the maximum value of the counterpart



## Jumpers M12, M8



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.			
<b>Plug M12 4-pole · Socket M8 4-pole</b>								
			0.3	–	EVT248			
			0.6	–	EVT249			
			1	–	EVT250			
			2	–	EVT251			
			5	–	EVT290			
			0.3	–	EVT253			
			0.6	–	EVT254			
			1	–	EVT255			
			2	–	EVT256			
			5	–	EVT257			
			10	–	EVT258			
<b>Plug M12 4-pole · Socket M12 4-pole</b>								
			0.3	–	EVT040			
			0.6	–	EVT041			
			1	–	EVT042			
			2	–	EVT043			
			5	–	EVT044			
			10	–	EVT045			
			0.3	–	EVT046			
			0.6	–	EVT047			
			1	–	EVT048			
			2	–	EVT049			
			5	–	EVT050			
			10	–	EVT051			
			0.3	•	EVT052			
			0.6	•	EVT053			
			1	•	EVT054			
			2	•	EVT055			
			5	•	EVT056			
			10	•	EVT057			
			<b>Plug M12 5-pole · Socket M12 5-pole</b>					
						0.3	–	EVT058
						0.6	–	EVT059
						1	–	EVT060
						2	–	EVT061
5	–	EVT062						
10	–	EVT063						

### Wiring diagram / Wire specification

		Socket			
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3	BU			
	4	BK			

PVC cable orange  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

		Socket			
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3	BU			
	4	BK			

PVC cable orange  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

		Socket				
Plug	PIN	1	2	3	4	5
	1	BN				
	2	WH				
	3	BU				
	4	BK				
	5	GY				

PVC cable orange  
5 x 0.34 mm<sup>2</sup>, Ø 5.1 mm

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M8	50 AC, 60 DC	3	-25...80	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.3...0.6
M12 4-pole	250 AC, 300 DC	4	-25...100 <sup>1)</sup>	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5-pole	30 AC, 36 DC	4 <sup>2)</sup>	-25...100 <sup>1)</sup>	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5

<sup>1)</sup>cRUus: max. 50 °C <sup>2)</sup>cRUus 3A



For sensors in  
robust applications

## Sockets M12

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
<b>Socket M12 4-pole</b>					
			2	–	<b>EVM001</b>
			5	–	<b>EVM002</b>
			10	–	<b>EVM003</b>
			2	–	<b>EVM004</b>
			5	–	<b>EVM005</b>
			10	–	<b>EVM006</b>
			2	•	<b>EVM007</b>
			5	•	<b>EVM008</b>
			10	•	<b>EVM009</b>

### Wiring diagram / Wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12 4-pole	250 AC, 300 DC / 10...36 DC	4 <sup>2)</sup>	-40...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR	high-grade stainl. steel (316L/1.4404)	0.6...1.5

<sup>1)</sup>cRUus: max. 50 °C <sup>2)</sup>cRUus 3A



For electro-magnetic fields



## Sockets M12, jumpers M12



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Socket M12 4-pole</b>					
	-		2	-	<b>EVW001</b>
			5	-	<b>EVW002</b>
			10	-	<b>EVW003</b>
	-		2	-	<b>EVW004</b>
			5	-	<b>EVW005</b>
			10	-	<b>EVW006</b>
	-		2	•	<b>EVW007</b>
			5	•	<b>EVW008</b>
			10	•	<b>EVW009</b>
<b>Socket M12 5-pole</b>					
	-		2	-	<b>EVW010</b>
			5	-	<b>EVW011</b>
			10	-	<b>EVW012</b>
	-		2	-	<b>EVW013</b>
			5	-	<b>EVW014</b>
			10	-	<b>EVW015</b>
<b>Plug M12 4-pole · Socket M12 4-pole</b>					
			0.3	-	<b>EVW037</b>
			0.6	-	<b>EVW023</b>
			1	-	<b>EVW024</b>
			2	-	<b>EVW025</b>
			5	-	<b>EVW028</b>
			10	-	<b>EVW029</b>
			0.3	-	<b>EVW036</b>
			0.6	-	<b>EVW022</b>
			1	-	<b>EVW030</b>
			2	-	<b>EVW031</b>
			5	-	<b>EVW034</b>
			10	-	<b>EVW035</b>
			1	•	<b>EVW038</b>
			2	•	<b>EVW039</b>
			5	•	<b>EVW041</b>
			10	•	<b>EVW042</b>
			1	•	<b>EVW043</b>
			2	•	<b>EVW044</b>
			5	•	<b>EVW046</b>
			10	•	<b>EVW047</b>

### Wiring diagram / Wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable grey, halogen-free, silicone-free, recyclable  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PUR cable grey, halogen-free, silicone-free, recyclable  
5 x 0.34 mm<sup>2</sup>, Ø 5.1 mm

Socket						
Plug	PIN	1	2	3	4	
	1	BN				
	2	WH				
	3		BU			
	4				BK	

PUR cable grey, halogen-free, silicone-free, recyclable  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

LED: signal yellow, operating voltage green

### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12 4-pole	250 AC, 300 DC / 10...36 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	TPU		0.6...1.5
M12 5-pole	30 AC, 36 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	TPU	TPI, CuZn, safecoating	0.6...1.5
M12 4-pole	250 AC, 300 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	PUR		0.6...1.5 <sup>3)</sup>

<sup>1)</sup>cRUus: max. 50 °C <sup>2)</sup>cRUus 3A <sup>3)</sup>adhere to the maximum value of the counterpart



For electro-magnetic fields

## Jumpers M12



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
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### Plug M12 5-pole · Socket M12 5-pole

			0.3	–	EVW048
			0.6	–	EVW049
			1	–	EVW050
			2	–	EVW051
			5	–	EVW052
			10	–	EVW053
			0.3	–	EVW054
			0.6	–	EVW055
			1	–	EVW056
			2	–	EVW057
			5	–	EVW058
			10	–	EVW059

### Wiring diagram / Wire specification

Plug	Socket					
	PIN	1	2	3	4	5
1	BN					
2		WH				
3				BU		
4					BK	
5						GY

PUR cable grey, halogen-free, silicone-free, recyclable  
5 x 0.34 mm<sup>2</sup>, Ø 5.1 mm



### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12 5-pole	60 AC / 60 DC	4 <sup>2)</sup>	-25...90 <sup>1)</sup>	IP 67/IP 68/IP 69K	TPU	CuZn/Ni, safecoating	0.6...1.5 <sup>3)</sup>

<sup>1)</sup>cULus: max. 75 °C <sup>2)</sup>cULUS 3A <sup>3)</sup>adhere to the maximum value of the counterpart





For hazardous areas



## Sockets M12, jumpers M12



Type	Pin assignment plug	Pin assignment socket	Cable [m]	LEDs	Order no.
<b>Socket M12 4-pole</b>					
	-		2	-	<b>EVC04A</b>
			5	-	<b>EVC05A</b>
			10	-	<b>EVC06A</b>
<b>Plug M12 4-pole · Socket M12 4-pole</b>					
			0,3	-	<b>EVC09A</b>
			0,6	-	<b>EVC10A</b>
			1	-	<b>EVC11A</b>
			2	-	<b>EVC07A</b>
			5	-	<b>EVC12A</b>
			10	-	<b>EVC13A</b>

### Wiring diagram / Wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

Socket					
Plug	PIN	1	2	3	4
	1	BN			
	2	WH			
	3			BU	
	4				BK

PUR cable black, halogen-free  
4 x 0.34 mm<sup>2</sup>, Ø 4.9 mm

Approvals:

EC type examination certificate for components from DEKRA EXAM

IECEX BVS 08.0041 U  
BVS 08 ATEX E 109 U

Marking:  
II 3G Ex nA II Ta: -20...60 °C  
II 2D Ex tD A21 IP67



### Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12	60 AC, 60 DC	2	-20...60	IP 67	TPU	GRIVORY GV-GH high-grade stainl. steel (316L/1.4404)	1.2...1.5



For hazardous areas



## Sockets M12

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
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### Socket M12 4-pole

		2	–	<b>ENC01A</b>
		5	–	<b>ENC02A</b>
		10	–	<b>ENC03A</b>
		2	–	<b>ENC04A</b>
		5	–	<b>ENC05A</b>
		10	–	<b>ENC06A</b>

### Socket M12 5-pole

		2	–	<b>ENC07A</b>
		5	–	<b>ENC08A</b>
		10	–	<b>ENC09A</b>
		2	–	<b>ENC10A</b>
		5	–	<b>ENC11A</b>
		10	–	<b>ENC12A</b>

## Wiring diagram / Wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable blue, halogen-free, silicone-free  
4 x 0.34 mm<sup>2</sup>, Ø 5.1 mm

Socket					
PIN	1	2	3	4	5
Colours	BN	WH	BU	BK	GY

PUR cable blue, halogen-free, silicone-free  
5 x 0.34 mm<sup>2</sup>, Ø 5.1 mm

Approvals:

EC type examination certificate for components from DEKRA EXAM

BVS 11 ATEX E 009 X  
IECEX BVS 11.0002 X

Marking:

II 1G Ex ia IIB T6 GA TA: -25...80 °C  
II 2G Ex ia IIC T6 Gb  
II 1D Ex ia IIIC T85°C Da  
II 1G Ex ia IIB T5 Ga Ta: -25...90 °C  
II 2G Ex ia IIC T5 Gb  
II 1D Ex ia IIIC T95°C Da



## Technical data

Type	Operating voltage / Operat. voltage with LED [V]	Current rating [A]	Operating temperature [°C]	Protection	Housing material	Locking material	Tightening torque [Nm]
M12	...30 DC	1	-20...90 <sup>1)</sup>	IP 67	TPU	GRIVORY GV-GH high-grade stainl. steel (316L/1.4404)	0.6...1.5

<sup>1)</sup>For use in hazardous areas: ambient temperature according to unit marking. Special conditions for safe operation apply for use in hazardous areas. Observe the corresponding notes in the operating instructions (Ex protection related part).

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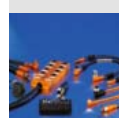
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