



The right choice for any connection. Connection technology from ifm.



Connection technology



ifm.com/gb/connect

The new quality standard in connection technology.



Connection technology



Ingress-resistant:

The innovative sealing concept provides the high protection ratings IP 67 / IP 68 / IP 69K.

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.

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.

Versatile:

Special versions adapted to your application.

Tested to extremes.

The temperature shock test simulates CIP processes and verifies the ageing resistance.



An eye on the plant process.

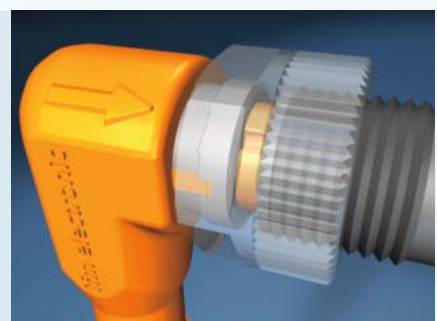
Even in bright lighting conditions the LEDs are clearly visible in the transparent black version.



Easy mounting without using a tool.

Vibration protection with end stop.

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





ecolink M12.

Overpressure impossible: Due to the special installation of a mechanical end stop the O-ring is always correctly compressed and so permanently maintains its sealing function.

With 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: The innovative 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.

ecolink M8.

For demanding applications: So far only M12 connectors could be used in difficult applications. The ecolink M8 series now 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.

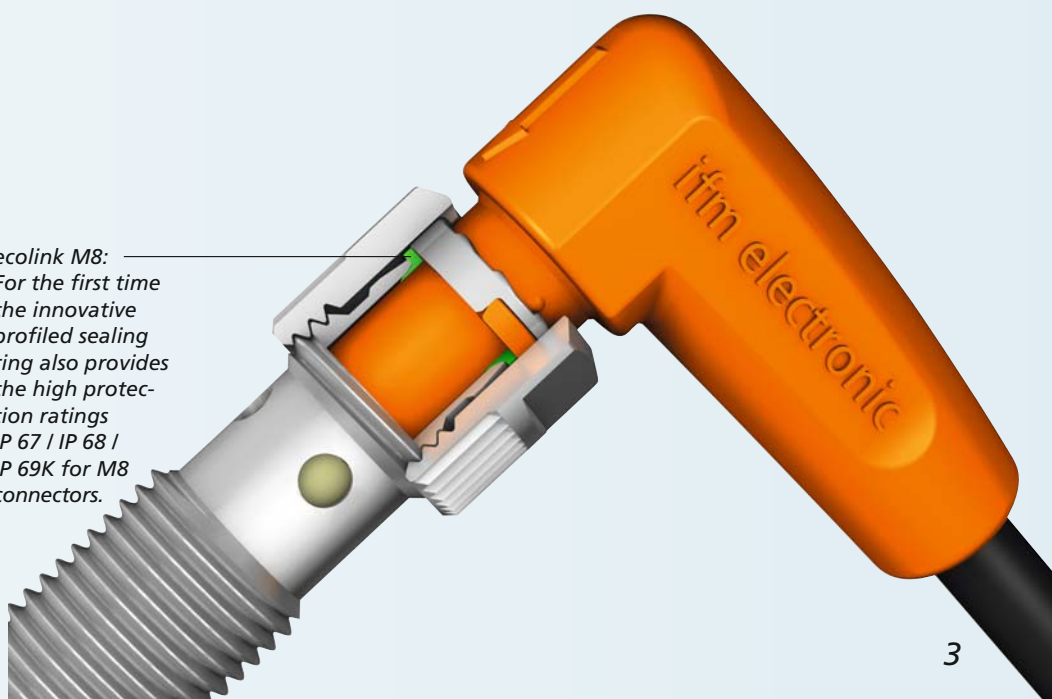
Permanently ingress-resistant: The asymmetrically acting vibration protection holds the nut tight in its position, guaranteeing optimum and permanent sealing.

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

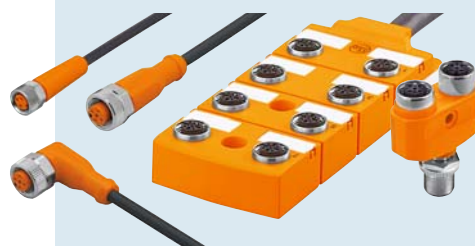
The specialists: High-quality materials and an innovative sealing concept enable use in special applications – from factory automation via the machine-tool industry through to welding applications, from oils and coolants to hygienic and food applications.



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.



Adapted to your application conditions.



For industrial applications



For oils and coolants



For hygienic and wet areas



For hygienic and wet areas, halogen-free



For robust applications



For electromagnetic fields



For hazardous areas



EVC series	Connection cables with socket Connection cables Connection cables with valve plug Connection cables with socket, shielded Connection cables with socket, performance series cable 1 mm ² Connection cables, performance series cable 1 mm ² Wirable sockets / connectors Splitter boxes Y splitters	6 - 23
EVT series	Connection cables with socket Connection cables Connection cables with socket, shielded Y connection cables / Y splitters	24 - 33
EVF series	Connection cables with socket, connection cable Wirable sockets / connectors Connection cables with socket, performance series cable 1 mm ² Connection cables, performance series cable 1 mm ² Ethernet connection cables with connector, connection cable Y connection cables / Y splitters	34 - 41
EVM series	Connection cables with socket	42 - 43
EVW series	Connection cables with socket Connection cables	44 - 45
ENCxxA series	Connection cables with socket	46 - 47
EVCxxA series	Connection cables with socket Connection cables	

Note: Reduced technical data for country-specific approvals, for more information go to ifm.com

ecolink for industrial applications. ecolink for oils and coolants.

EVC series



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



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

Connection cables with M8 socket

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
M8 socket 3 poles					
			2	–	EVC141
			5	–	EVC142
			10	–	EVC143
			2	–	EVC144
			5	–	EVC145
			10	–	EVC146
			2	•	EVC147
			5	•	EVC148
			10	•	EVC149
M8 socket 4 poles					
			2	–	EVC150
			5	–	EVC151
			10	–	EVC152
			2	–	EVC153
			5	–	EVC154
			10	–	EVC155

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Socket			
PIN	1	2	3
Colours	BN	WH	BU

PUR cable black, halogen-free
3 x 0.25 mm², Ø 3.7 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free
4 x 0.25 mm², Ø 3.7 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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



Connection cables with M12 socket



Type	Pin assignment	Cable [m]	LEDs	Order no.
M12 socket 4 poles				
		2	–	EVC001
		5	–	EVC002
		10	–	EVC003
		2	•	EVC644
		5	•	EVC645
		10	•	EVC646
		2	–	EVC004
		5	–	EVC005
		10	–	EVC006
		2	•	EVC007
		5	•	EVC008
		10	•	EVC009
M12 socket 5 poles				
		2	–	EVC070
		5	–	EVC071
		10	–	EVC072
		2	–	EVC073
		5	–	EVC074
		10	–	EVC075

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free
4 x 0.34 mm², Ø 4.9 mm

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

PUR cable black, halogen-free
5 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5
M12 5 poles	60 AC / 60 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5



For industrial applications



For oils and coolants

Connection cables with M12, M16, M23 socket

Type	Pin assignment	Cable [m]	Order no.
------	----------------	-----------	-----------

M12 socket 8 poles

		5	-
		10	E11311
		2	E11231
		5	E11232

M12 socket 12 poles

		5	E12502
		10	E12503
		15	E12504
		5	E12457
		10	E12505
		15	E12506

M16 socket 14 poles, 8 wires

		5	E11226
		10	E11227

M23 socket 12 poles

		5	E11736
		10	E11737
		15	E11738
		5	E11739
		10	E11740
		15	E11741

M23 socket 19 poles

		5	E11742
		10	E11743
		15	E11744
		5	E11745
		10	E11746
		15	E11747

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 mm², Ø 6.2 mm

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

PUR cable black, halogen-free
12 x 0.25 mm², Ø 6.6 mm

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

PUR cable black
8 x 0.34 mm² and 2 x 0.75 mm², Ø 9.1 mm

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

PUR cable black
8 x 0.5 mm² and 3 x 1 mm², Ø 9.3 mm

Socket												
PIN	1	2	3	4	5	6	7	8	9	10	11	12
Colours	VT	RD	GY	RD	GN	BU	GY	WH	WH	WH	BK	YE
				BU			PK	GN	YE	GY		GN
PIN	13	14	15	16	17	18	19					
Colours	YE	BN	WH	YE	PK	GY	BN					
	BN	GN				BN						

PUR cable black
16 x 0.5 mm² and 3 x 1 mm², Ø 11.6 mm

Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 8 poles	30 AC, 36 DC	3	-25...80	IP 68	PUR	CuZn / Ni	0.7...0.9
M12 12 poles	30 AC/DC	1.5	-25...90	IP 67	PUR	CuZn / Ni	0.7...0.9
M16 8 poles	30 DC	3	-25...90	IP 68	PUR	CuZn / Ni	-
M23	63 AC/DC	8	-25...80	IP 67	PUR	CuZn / Ni	-



M8 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M8 connector 3 poles · M8 socket 3 poles					
			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
M8 connector 3 poles · M8 socket 4 poles					
			0.3	–	EVC270
			0.6	–	EVC271
			1	–	EVC272
			2	–	EVC273
			5	–	EVC274
			0.3	–	EVC260
			0.6	–	EVC261
			1	–	EVC262
			2	–	EVC263
			5	–	EVC264

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PUR cable black
3 x 0.25 mm², Ø 3.7 mm

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

PUR cable black, halogen-free
3 x 0.25 mm², Ø 3.7 mm

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ifm.com

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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



For industrial applications



For oils and coolants

M8, M12 connection cables

Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M8 connector 3 poles · M12 socket 4 poles					
			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
M8 connector 4 poles · M8 socket 3 poles					
			0.3	–	EVC305
			0.6	–	EVC306
			1	–	EVC307
			2	–	EVC308
			5	–	EVC309
			0.3	–	EVC315
			0.6	–	EVC316
			1	–	EVC317
			2	–	EVC318
			5	–	EVC319
M8 connector 4 poles · M8 socket 4 poles					
			0.3	–	EVC310
			0.6	–	EVC311
			1	–	EVC312
			2	–	EVC313
			5	–	EVC314
			0.3	–	EVC300
			0.6	–	EVC301
			1	–	EVC302
			2	–	EVC303
			5	–	EVC304

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PUR cable black, halogen-free
3 x 0.34 mm², Ø 4.9 mm

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

PUR cable black, halogen-free
3 x 0.25 mm², Ø 3.7 mm

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

PUR cable black, halogen-free
4 x 0.25 mm², Ø 3.7 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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
M12	250 AC, 300 DC / 10...36 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5



M8, M12 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M8 connector 4 poles · M12 socket 4 poles					
			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
M12 connector 3 poles · M8 socket 3 poles					
			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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PUR cable black, halogen-free
4 x 0.25 mm², Ø 3.7 mm

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

PUR cable black, halogen-free
3 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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
M12	250 AC, 300 DC / 10...36 DC	3	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5



For industrial applications



For oils and coolants

M12, M8 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M12 connector 3 poles · M8 socket 4 poles					
			0.3	–	EVC220
			0.6	–	EVC221
			1	–	EVC222
			2	–	EVC223
			5	–	EVC224
			0.3	–	EVC210
			0.6	–	EVC211
			1	–	EVC212
			2	–	EVC213
			5	–	EVC214
M12 connector 4 poles · M8 socket 4 poles					
			0.3	–	EVC240
			0.6	–	EVC241
			1	–	EVC242
			2	–	EVC243
			5	–	EVC244
			0.3	–	EVC235
			0.6	–	EVC236
			1	–	EVC237
			2	–	EVC238
			5	–	EVC239
M12 connector 3 poles · M12 socket 3 poles					
			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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PUR cable black, halogen-free
3 x 0.34 mm², Ø 4.9 mm

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

PUR cable black, halogen-free
3 x 0.34 mm², Ø 4.9 mm

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

PUR cable black, halogen-free
3 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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	250 AC, 300 DC / 10...36 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5



M12 connection cables



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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PUR cable black, halogen-free
4 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12	250 AC, 300 DC / 10...36 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5












For industrial applications



For oils and coolants

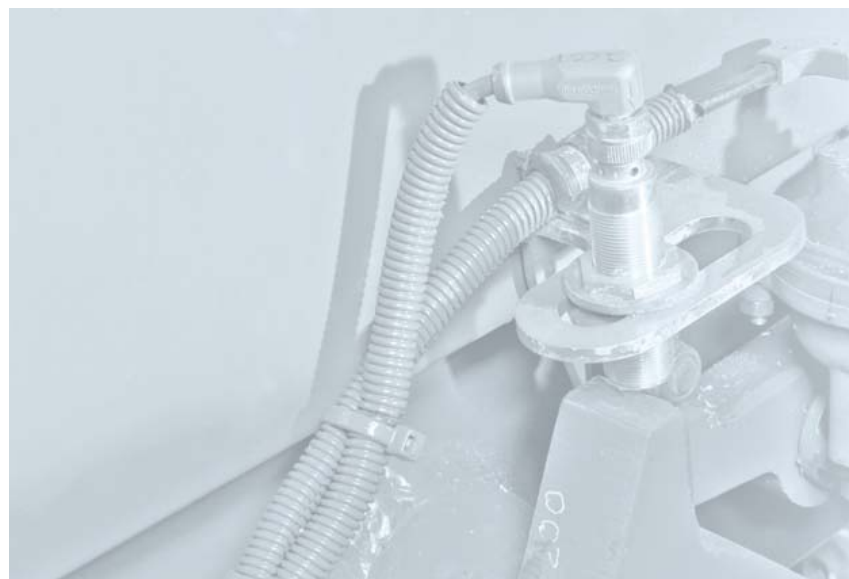
M12 connection cables

eco link	Type	Pin assignment connector	Pin assignment socket	Cable [m]	Order no.
M12 connector 5 poles · M12 socket 5 poles					
				0.3	EVC055
				0.6	EVC056
				1	EVC057
				2	EVC058
				5	EVC059
				0.3	EVC060
				0.6	EVC061
				1	EVC062
				2	EVC063
				5	EVC064
				0.3	EVC065
				0.6	EVC066
				1	EVC067
				2	EVC068
				5	EVC069

Wiring diagram / wire specification

	Socket					
Connector	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 mm², Ø 4.9 mm



Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12	60 AC, 60 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5



M12 connection cables with valve plug

Type	Pin assignment connector	Pin assignment socket	Design	Cable [m]	LEDs	Order no.
M12 connector 3 poles · valve socket 3 poles						
			DIN A	0.3	•	E11416
				0.6		E11417
				1		E11418
				2		E11419
				5		E11420
			DIN B	0.3	•	E11421
				0.6		E11422
				1		E11423
				2		E11424
				5		E11425
			DIN C	0.3	•	E11426
				0.6		E11427
				1		E11428
				2		E11429
				5		E11430
			industry standard B	0.3	•	E11431
				0.6		E11432
				1		E11433
				2		E11434
				5		E11435
			industry standard C	0.3	•	E11436
				0.6		E11437
				1		E11438
				2		E11439
				5		E11440

LED: signal yellow

Wiring diagram / wire specification

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

PUR cable black
3 x 0.5 mm², Ø 5 mm

Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 connector	250 AC, 300 DC	4	-25...85	IP 68	PUR	CuZn / Ni	0.7...0.9
Valve socket	24 AC/DC	3	-25...80	IP 67	PUR	CuZn / Ni	–



For industrial applications



For oils and coolants

Connection cables with M12 socket, shielded

Type	Pin assignment	Cable [m]	Order no.
M12 socket 4 poles screen not connected			
		2	EVC526
		5	EVC527
		10	EVC528
		2	EVC529
		5	EVC530
		10	EVC531
M12 socket 5 poles screen not connected			
		2	EVC532
		5	EVC533
		10	EVC534
		2	EVC535
		5	EVC536
		10	EVC537
M12 socket 4 poles screen connected			
		2	EVC538
		5	EVC539
		10	EVC540
		2	EVC541
		5	EVC542
		10	EVC543
M12 socket 5 poles screen connected			
		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, shielded
4 x 0.34 mm², Ø 4.9 mm

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

PUR cable black, halogen-free, shielded
4 x 0.34 mm², Ø 4.9 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free, shielded
4 x 0.34 mm², Ø 4.9 mm

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

PUR cable black, halogen-free, shielded
4 x 0.34 mm², Ø 4.9 mm





Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	50 AC, 60 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5
M12 5 poles	50 AC, 60 DC	4	-25...90	IP 67/IP 68/IP 69K	PUR	CuZn / Ni	0.6...1.5



Connection cables with M12 socket, performance series cable 1 mm²



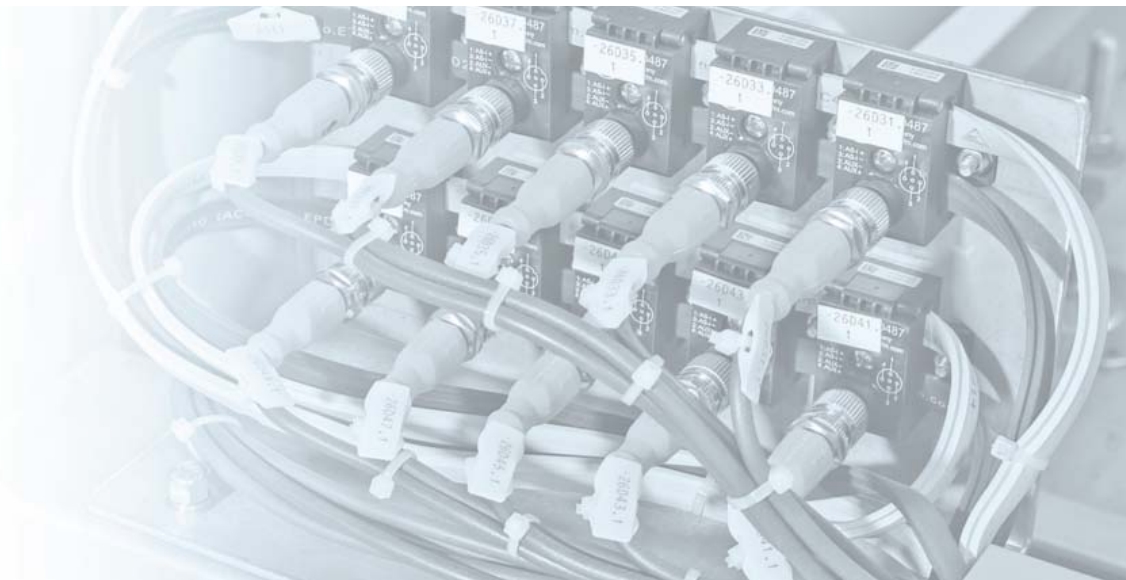
Type	Pin assignment	Cable [m]	Order no.
M12 socket 4 poles			
		2	EVC706
		5	EVC707
		10	EVC708
		20	EVC709
		50	EVC710
		2	EVC711
		5	EVC712
		10	EVC713
		20	EVC714
		50	EVC715

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free
4 x 1 mm², Ø 6.2 mm

ecolink performance series cable for demanding applications. The increased wire cross-section of 1 mm² even conducts higher voltages with lower voltage drop.



Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...90	IP 67/IP 68/IP 69K	TPU	CuZn / Ni	0.6...1.5



For industrial applications



For oils and coolants

Wirable M12, M18, M23, RD24 sockets / connectors

Type	Pin assignment	Order no.	Type	Pin assignment	Order no.
M12 connector 4 poles · 5 poles			M12 connector 4 poles · 5 poles		
		E11504			E11505
		E11506			E11507
M12 socket 4 poles · 5 poles			M12 socket 4 poles · 5 poles		
		E11508			E11509
					E11510
		E11511			E11512
M18 socket 4 poles			M18 socket 4 poles		
		E10137			E10013
M23 socket 12 poles · 19 poles			M23 socket 12 poles · 19 poles		
		E10448			E10447
		E10887			E10886
RD24 socket 7 poles			RD24 socket 7 poles		
		E70142			E11043

LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Connector	
PIN	screw terminals
	freely selectable

0.75 mm², Ø 4...6 mm

Socket	
PIN	screw terminals
	freely selectable

0.75 mm², Ø 4...6 mm

Socket	
PIN	screw terminals
	freely selectable

0.75 mm², Ø 6...8 mm

Socket	
PIN	solder connection
	freely selectable

1 mm², Ø 10...14 mm

Socket	
PIN	screw terminals
	freely selectable

2.5 mm², Ø 6...9.5 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...30 DC	4	-25...100	IP 68	PA	CuZn / Ni	0.6...0.7
M12 5 poles	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	–



Splitters with M12 ports



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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PUR cable black

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

Technical data

Connection	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut
Cable	60 AC, 75 DC / 10...30 DC	4 per port, 12 in total	-25...80	IP 67	PA	CuZn / Ni
M23 connector	60 AC, 75 DC / 10...30 DC	4 per port, 12 in total	-25...80	IP 67	PA	CuZn / Ni







For industrial applications

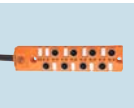



For oils and coolants

Splitters with M8 ports

eco link	Type	Pin assignment	Signals on PIN	LEDs	Conne- tion / cable [m]	Order no.
Splitter 8 ports 3 poles · cable connection						
		4	•	5	EBC054	
		4	•	10	EBC055	

Splitter 10 ports 3 poles · cable connection						
		4	•	5	EBC136	
		4	•	10	EBC137	

Splitter 8 ports 4 poles · cable connection						
		2 and 4	•	5	EBC056	
		2 and 4	•	10	EBC057	

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Port no.	Connector			
	PIN	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 mm², 2 x 0.75 mm², Ø 9.1 mm

Port no.	Connector			
	PIN	1 L+	3 L-	4 Signal
1	BN	BU	WH	
2	BN	BU	GN	
3	BN	BU	YE	
4	BN	BU	GY	
5	BN	BU	PK	
6	BN	BU	RD	
7	BN	BU	BK	
8	BN	BU	VT	
9	BN	BU	GY/PK	
10	BN	BU	RD/BU	

PUR cable black
10 x 0.34 mm², 2 x 0.34 mm², Ø 9.1 mm

Port no.	Connector				
	PIN	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 mm², 2 x 0.75 mm², Ø 9.1 mm



Splitters with M8 ports



Type	Pin assignment	Signals on pin	LEDs	Order no.
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Splitter 4 ports 3 poles · M12 connector

		4	•	EBC050
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
Splitter 8 ports 3 poles · M12 connector

		4	•	EBC138
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Splitter 10 ports 3 poles · M12 connector

		4	•	EBC139
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Splitter 4 ports 4 poles · M16 connector

		2 and 4	•	EBC053
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• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Port no.	Connector			
	PIN	1 L+	3 L-	4 Signal
1	5	7	1	
2	5	7	2	
3	5	7	3	
4	5	7	4	

Port no.	Connector			
	PIN	1 L+	3 L-	4 Signal
1	1	2	3	
2	1	2	4	
3	1	2	6	
4	1	2	8	
5	1	2	5	
6	1	2	9	
7	1	2	7	
8	1	2	10	

Port no.	Connector			
	PIN	1 L+	3 L-	4 Signal
1	1	2	3	
2	1	2	4	
3	1	2	6	
4	1	2	8	
5	1	2	5	
6	1	2	9	
7	1	2	7	
8	1	2	10	
9	1	2	11	
10	1	2	12	

Port no.	Connector				
	PIN	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]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	LED operating voltage	LED signal display
10...30 DC	2 per port, 6 in total	-25...90	IP 67	PBT-GF20	CuZn / Ni	green	yellow



For industrial applications



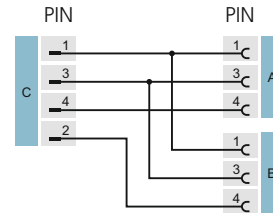
For oils and coolants

M12 Y splitters

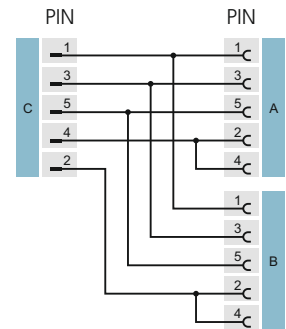
eco link	Type	Pin assignment socket	Pin assignment connector	Signals on pin	Order no.
Y splitter M12 connector · 2 M8 sockets					
				4	EBC112
Y splitter M12 connector · 2 M12 sockets					
				4	EBC113
				2 and 4 with PE	EBC114
				4 with PE	EBC115
				2 and 4 with PE	EBC116
				2 with PE	EBC117
				4 with PE	EBC118

Wiring diagram / wire specification

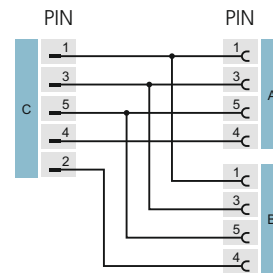
EBC112/113



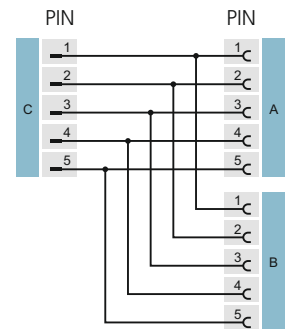
EBC114



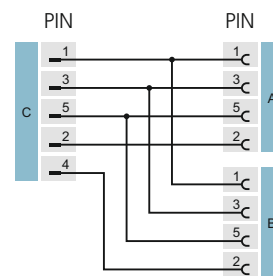
EBC115



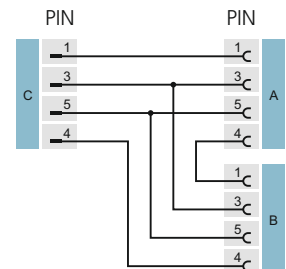
EBC116



EBC117



EBC118



Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...90	IP 67/IP 68/IP 69K	PA	CuZn / Ni	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...90	IP 67/IP 68/IP 69K	PA	CuZn / Ni	0.6...1.5



ecolink for hygienic and wet areas.

EVT series



For hygienic and wet areas:
High-quality materials suited
to the requirements in wet areas
in food and beverage applications.

Connection cables with M8 socket

Type	Pin assignment	Cable [m]	LEDs	Order no.
M8 socket 3 poles				
		5	–	EVT123
		10	–	EVT124
		25	–	EVT125
		5	–	EVT127
		10	–	EVT128
		25	–	EVT129
		5	•	EVT131
		10	•	EVT132
		25	•	EVT133
M8 socket 4 poles				
		5	–	EVT135
		10	–	EVT136
		25	–	EVT137
		5	–	EVT139
		10	–	EVT140
		25	–	EVT141

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Socket			
PIN	1	3	4
Colours	BN	BU	BK

PVC cable orange
3 x 0.34 mm², Ø 4.9 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange
4 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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



Connection cables with M12 socket



Type	Pin assignment	Cable [m]	LEDs	Order no.
M12 socket 4 poles				
		5	–	EVT001
		10	–	EVT002
		25	–	EVT003
		5	•	EVT462
		10	•	EVT463
		25	•	EVT464
		5	–	EVT004
		10	–	EVT005
		25	–	EVT006
		5	•	EVT007
		10	•	EVT008
		25	•	EVT009
M12 socket 5 poles				
		5	–	EVT010
		10	–	EVT011
		25	–	EVT012
		5	–	EVT013
		10	–	EVT014
		25	–	EVT015

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange
4 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
5 x 0.34 mm², Ø 5.1 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-25...100	IP 68 / IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...100	IP 68 / IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5



For hygienic
and wet areas

M8, M12 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M8 connector 3 poles · M8 socket 3 poles					
			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
M8 connector 3 poles · M8 socket 4 poles					
			0.3	–	EVT279
			0.6	–	EVT280
			1	–	EVT281
			2	–	EVT203
			5	–	EVT204
			0.3	–	EVT283
			0.6	–	EVT284
			1	–	EVT285
			2	–	EVT211
			5	–	EVT286
M8 connector 3 poles · M12 socket 4 poles					
			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

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

PVC cable orange
3 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
3 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
3 x 0.34 mm², Ø 4.9 mm

• LED: signal yellow, operating voltage green

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M8	50 AC, 60 DC / 10...36 DC	3	-25...80	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.3...0.6
M12	250 AC, 300 DC / 10...36 DC	3	-25...80	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5



M8 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M8 connector 3 poles · M8 socket 3 poles					
			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
M8 connector 4 poles · M8 socket 4 poles					
			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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PVC cable orange
3 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
4 x 0.34 mm², Ø 4.9 mm

Technical data

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



For hygienic
and wet areas

M8, M12 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M8 connector 4 poles · M8 socket 4 poles					
			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
M12 connector 3 poles · M12 socket 3 poles					
			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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PVC cable orange
4 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
3 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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	250 AC, 300 DC / 10...36 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5



M8 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.			
M12 connector 4 poles · M8 socket 4 poles								
			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			
M12 connector 4 poles · M12 socket 4 poles								
			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			
			M12 connector 5 poles · M12 socket 5 poles					
						0.3	–	EVT058
						0.6	–	EVT059
						1	–	EVT060
						2	–	EVT061
5	–	EVT062						
10	–	EVT063						

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

PVC cable orange
4 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
4 x 0.34 mm², Ø 4.9 mm

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

PVC cable orange
5 x 0.34 mm², Ø 5.1 mm

Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	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 poles	250 AC, 300 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5



**For hygienic
and wet areas**

Connection cables with M12 socket, shielded

eco link	Type	Pin assignment	Cable [m]	Order no.
M12 socket 4 poles screen not connected				
		2	EVT381	
		5	EVT382	
		10	EVT383	
		25	EVT384	
		2	EVT385	
		5	EVT386	
		10	EVT387	
		25	EVT388	
M12 socket 5 poles screen not connected				
		2	EVT389	
		5	EVT390	
		10	EVT391	
		25	EVT392	
		2	EVT393	
		5	EVT394	
		10	EVT395	
		25	EVT396	
M12 socket 4 poles screen connected				
		2	EVT397	
		5	EVT398	
		10	EVT399	
		25	EVT400	
		2	EVT401	
		5	EVT402	
		10	EVT403	
		25	EVT404	
M12 socket 5 poles screen connected				
		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, shielded
4 x 0.25 mm², Ø 5.2 mm

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

PVC cable orange, shielded
5 x 0.25 mm², Ø 5.2 mm

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PVC cable orange, shielded
4 x 0.25 mm², Ø 5.2 mm

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

PVC cable orange, shielded
5 x 0.25 mm², Ø 5.2 mm

Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	50 AC, 60 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	50 AC, 60 DC	4	-25...100	IP 67/IP 68/IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5



M12 Y connection cables

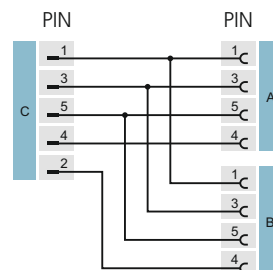


Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M12 connector - 2 M12 sockets					
			1	–	EVT329
			2	–	EVT330
			5	–	EVT331
			1	–	EVT332
			2	–	EVT333
			5	–	EVT334
			1	•	EVT335
			2	•	EVT336
			5	•	EVT337

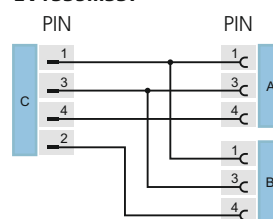
- LED: signal yellow, operating voltage green

Wiring diagram / wire specification

EVT329...334



EVT335...337



PVC cable orange
3 x 0.34 mm², Ø 4.9 mm





















Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 plug / socket	60 AC/DC / 10...36 DC	4	-25...100	IP 67 / IP 68 / IP 69K	PVC	high-grade stainless steel (316L/1.4404)	0.6...1.5



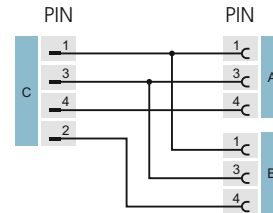
For hygienic
and wet areas

M12 Y splitters

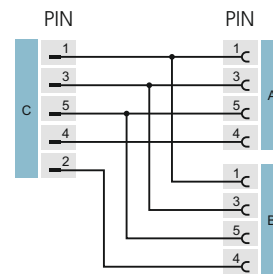
Type	Pin assignment socket	Pin assignment connector	Signals on pin	Order no.
Y splitter M12 connector · 2 M12 sockets				
			4	EBT006
			2 and 4 with PE	EBT007
			4 with PE	EBT008
			2 and 4 with PE	EBT009
			2 with PE	EBT010
			4 with PE	EBT011

Wiring diagram / wire specification

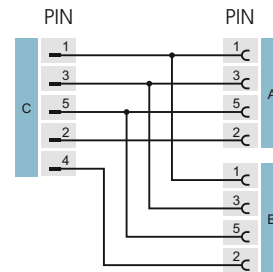
EBT006



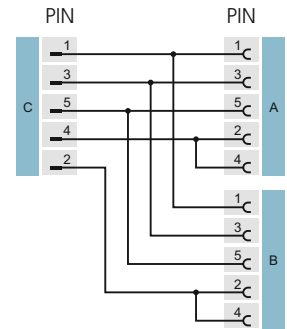
EBT008



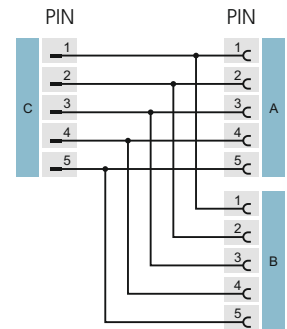
EBT010



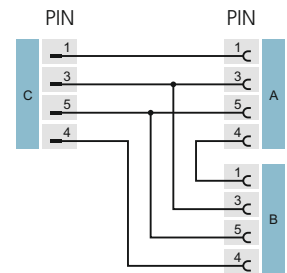
EBT007



EBT009



EBT011



Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...100	IP 67/IP 68/IP 69K	PA	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...100	IP 67/IP 68/IP 69K	PA		0.6...1.5



ecolink for hygienic and wet areas, halogen-free.

EVF series



Halogen-free PP housing and MPPE cable.
Gold-plated contacts and high-grade stainless steel contoured nuts for long life in the special applications of the hygienic and food industry. Also suited for use in filling systems and contact with hydrogen peroxide and peracetic acid.

Connection cables with M12 socket

Type	Pin assignment	Cable [m]	LEDs	Order no.
M12 socket 4 poles				
		5	–	EVF001
		10	–	EVF002
		25	–	EVF003
		5	–	EVF004
		10	–	EVF005
		25	–	EVF006
		5	•	EVF007
		10	•	EVF008
		25	•	EVF009
M12 socket 5 poles				
		5	–	EVF010
		10	–	EVF011
		25	–	EVF012
		5	–	EVF013
		10	–	EVF014
		25	–	EVF015

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

MPPE cable grey, halogen-free
4 x 0.34 mm², Ø 4.9 mm

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

MPPE cable grey, halogen-free
5 x 0.34 mm², Ø 5.1 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-25...100	IP 68 / IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...100	IP 68 / IP 69K	PP		0.6...1.5



M12 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M12 connector 4 poles · M12 socket 4 poles					
			0.3	–	EVF040
			0.6	–	EVF041
			1	–	EVF042
			2	–	EVF043
			5	–	EVF044
			10	–	EVF045
			0.3	–	EVF046
			0.6	–	EVF047
			1	–	EVF048
			2	–	EVF049
			5	–	EVF050
			10	–	EVF051
			0.3	•	EVF052
			0.6	•	EVF053
			1	•	EVF054
			2	•	EVF055
			5	•	EVF056
			10	•	EVF057
M12 connector 5 poles · M12 socket 5 poles					
			0.3	–	EVF058
			0.6	–	EVF059
			1	–	EVF060
			2	–	EVF061
			5	–	EVF062
			10	–	EVF063

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

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

MPPE cable grey, halogen-free
4 x 0.34 mm², Ø 4.9 mm

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

MPPE cable grey, halogen-free
5 x 0.34 mm², Ø 5.1 mm

Technical data





Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-25...80	IP 67/IP 68/IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...80	IP 67/IP 68/IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5



For hygienic
and wet areas

Connection cables with M12 socket, performance series cable 1 mm²

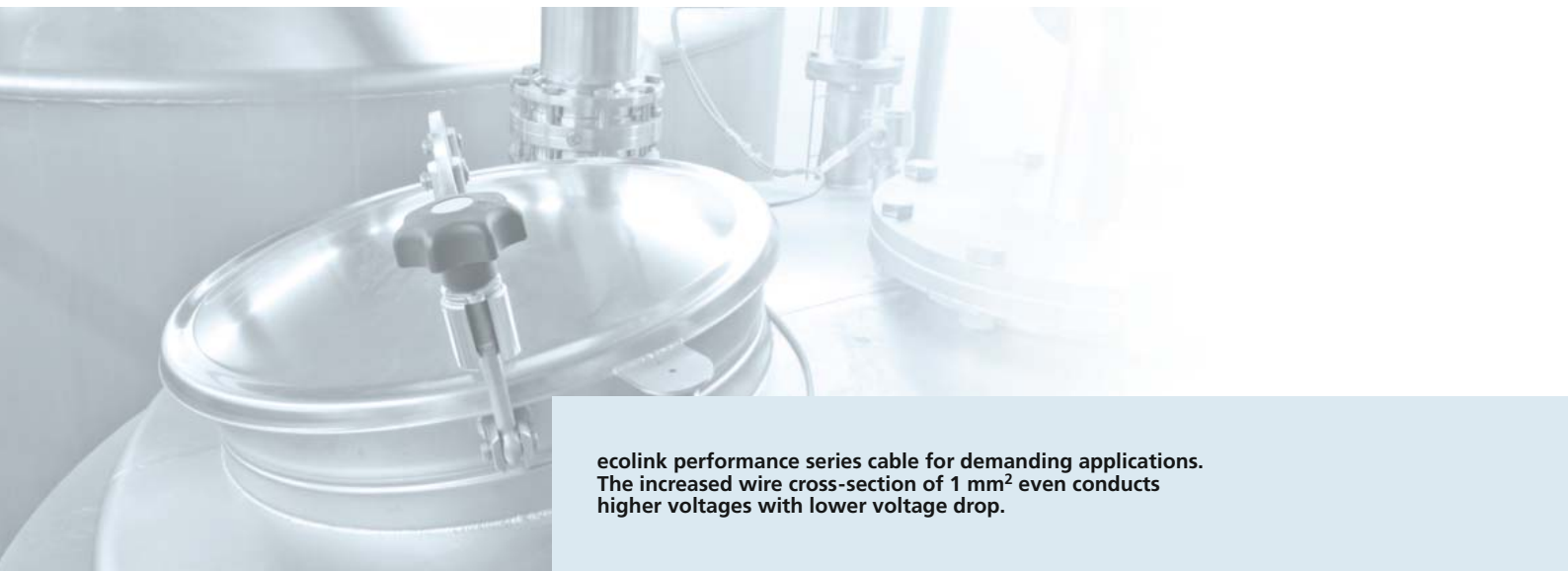


Type	Pin assignment	Cable [m]	Order no.
M12 socket 4 poles			
		2	EVF480
		5	EVF481
		10	EVF482
		20	EVF483
		50	EVF484
		2	EVF485
		5	EVF486
		10	EVF487
		20	EVF488
		50	EVF489

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

MPPE cable grey, halogen-free
4 x 1 mm², Ø 6.2 mm



ecolink performance series cable for demanding applications. The increased wire cross-section of 1 mm² even conducts higher voltages with lower voltage drop.

Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...100	IP 67 / IP 68 / IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5



M12 connection cables, performance series cable 1 mm²



Type	Pin assignment connector	Pin assignment socket	Cable [m]	Order no.
M12 socket 4 poles · M12 socket 4 poles				
			0.25	EVF490
			0.5	EVF491
			1	EVF492
			2	EVF493
			5	EVF494
			10	EVF495
			20	EVF496
			0.25	EVF497
			0.5	EVF498
			1	EVF499
			2	EVF500
			5	EVF501
			10	EVF502
			20	EVF503
			0.25	EVF504
			0.5	EVF505
			1	EVF506
			2	EVF507
			5	EVF508
			10	EVF509
			20	EVF510
			0.25	EVF511
			0.5	EVF512
			1	EVF513
			2	EVF514
			5	EVF515
			10	EVF516
			20	EVF517

Wiring diagram / wire specification

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

MPPE cable grey, halogen-free
4 x 1 mm², Ø 6.2 mm

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
Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...100	IP 67 / IP 68 / IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5



For hygienic
and wet areas

Connection cables with M12 connector Ethernet D-Code, CAT 5e



eco link	Type	Pin assignment	Cable [m]	Order no.
M12 connector 4 poles				
 			2	EVF518
			5	EVF519
			10	EVF520
			20	EVF521
			50	EVF522

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	YE	WH	OG	BU

MPPE cable grey, halogen-free
4 x 0.34 mm², Ø 6.5 mm

M12 connection cables Ethernet D-Code, CAT 5e

eco link	Type	Pin assignment	Cable [m]	Order no.
M12 connector 4 poles				
 			0.25	EVF528
			0.5	EVF529
			1	EVF530
			2	EVF531
			5	EVF532
			10	EVF533
			20	EVF534

Wiring diagram / wire specification

Socket					
Connector	PIN	1	2	3	4
	1	YE			
	2		WH		
	3			OG	
	4				BU

MPPE cable grey, halogen-free
4 x 0.34 mm², Ø 6.5 mm

















Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	50 AC, 60 DC	4	-25...80	IP 67 / IP 68 / IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5



Wirable sockets / connectors



Type	Pin assignment	Order no.
M12 socket 4 poles		
		EVF565
		EVF566
M12 socket 5 poles		
		EVF569
		EVF570
M12 connector 4 poles		
		EVF567
		EVF568
M12 connector 5 poles		
		EVF571
		EVF572

Wiring diagram / wire specification

Socket	
PIN	screw terminals
	freely selectable

0.25...1 mm², Ø 3.5...6 mm

Connector	
PIN	screw terminals
	freely selectable

0.25...1 mm², Ø 3.5...6 mm

Technical data

Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...100	IP 67/IP 68/IP 69K	PA	high-grade stainless steel (316L/1.4404)	0.6...1.2
M12 5 poles	60 AC/DC	4	-25...100	IP 67/IP 68/IP 69K	PA	high-grade stainless steel (316L/1.4404)	0.6...1.2



For hygienic
and wet areas

M12 Y connection cables

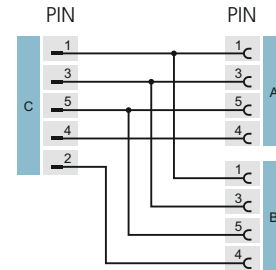


Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M12 connector · 2 M12 sockets					
			1	–	EVF329
			2	–	EVF330
			5	–	EVF331
			1	–	EVF332
			2	–	EVF333
			5	–	EVF334
			1	•	EVF335
			2	•	EVF336
			5	•	EVF337

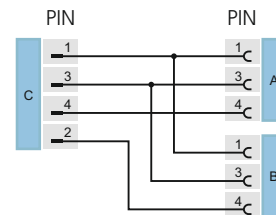
• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

EVF329...334



EVF335...337



PVC cable orange
3 x 0.34 mm², Ø 4.9 mm





















Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 plug / socket	60 AC/DC / 10...36 DC	4	-25...100	IP 67 / IP 68 / IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5



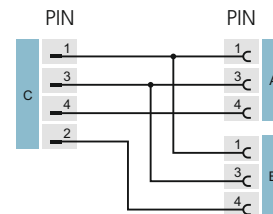
M12 Y splitters



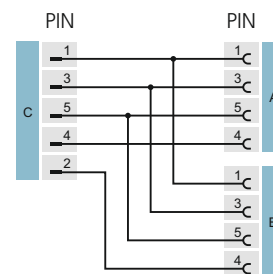
Type	Pin assignment socket	Pin assignment connector	Signals on pin	Order no.
Y splitter M12 connector · 2 M12 sockets				
			4	EBF006
			2 and 4 with PE	EBF007
			4 with PE	EBF008
			2 and 4 with PE	EBF009
			2 with PE	EBF010
			4 with PE	EBF011

Wiring diagram / wire specification

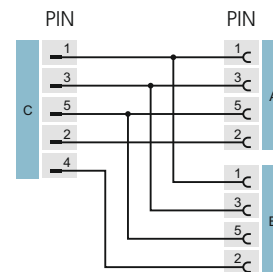
EBF006



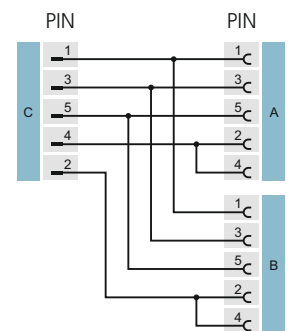
EBF008



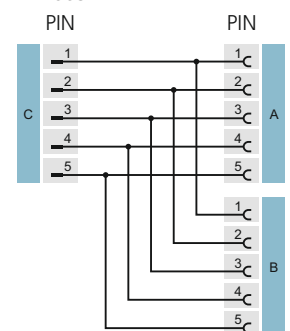
EBF010



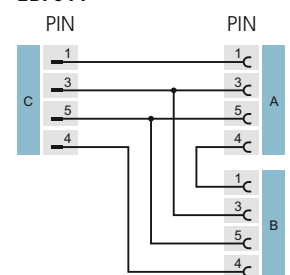
EBF007



EBF009



EBF011



Technical data

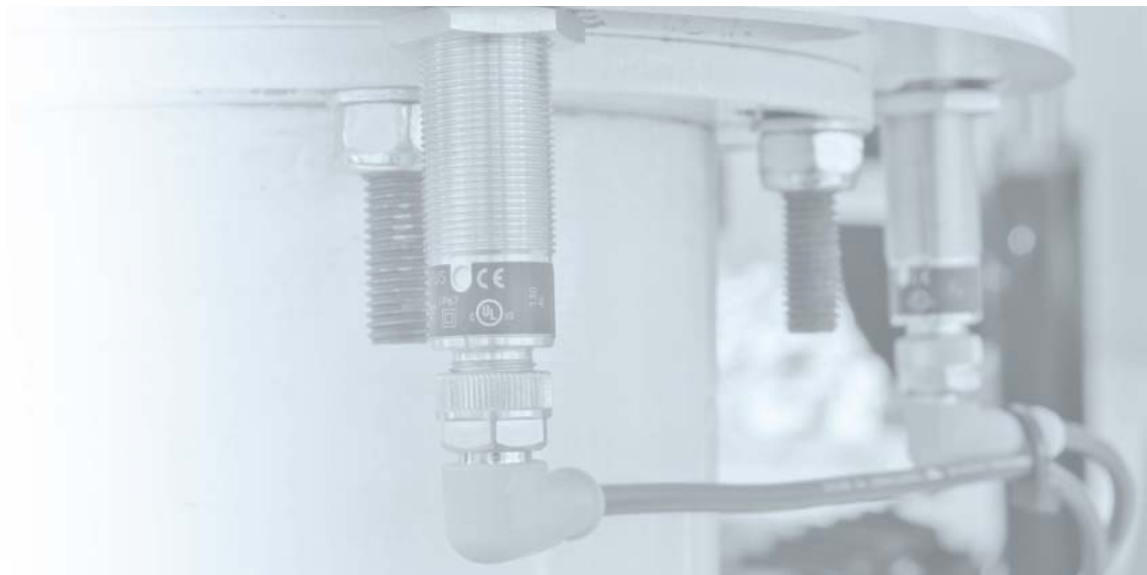
Type	Operating voltage [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC	4	-25...90	IP 67/IP 68/IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...90	IP 67/IP 68/IP 69K	PP	high-grade stainless steel (316L/1.4404)	0.6...1.5

ecolink for robust applications.

EVM series



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.



Connection cables with M12 socket

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
M12 socket 4 poles					
			2	–	EVM001
			5	–	EVM002
			10	–	EVM003
			2	•	EVM068
			5	•	EVM069
			10	•	EVM070
			2	–	EVM004
			5	–	EVM005
			10	–	EVM006
			2	•	EVM007
			5	•	EVM008
			10	•	EVM009

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free
4 x 0.34 mm², Ø 4.9 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-40...90	IP 67 / IP 68 / IP 69K	PUR	high-grade stainless steel (316L/1.4404)	0.6...1.5

ecolink for electromagnetic fields.

EVW series



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.

M12 connection cables

eco link	Type	Pin assignment	Cable [m]	LEDs	Order no.
M12 socket 4 poles					
			2	–	EVW001
			5	–	EVW002
			10	–	EVW003
			2	•	EVW167
			5	•	EVW168
			10	•	EVW169
			2	–	EVW004
			5	–	EVW005
			10	–	EVW006
			2	•	EVW007
			5	•	EVW008
			10	•	EVW009
M12 socket 5 poles					
			2	–	EVW010
			5	–	EVW011
			10	–	EVW012
			2	–	EVW013
			5	–	EVW014
			10	–	EVW015

• LED: signal yellow, operating voltage green

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 mm², Ø 4.9 mm

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 mm², Ø 5.1 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-25...90	IP 67 / IP 68 / IP 69K	TPU	TPI, CuZn, non-stick coating	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...90	IP 67 / IP 68 / IP 69K	TPU	TPI, CuZn, non-stick coating	0.6...1.5



M12 connection cables



Type	Pin assignment connector	Pin assignment socket	Cable [m]	LEDs	Order no.
M12 connector 4 poles · M12 socket 4 poles					
			0.3	–	EVW037
			0.5	–	EVW023
			1	–	EVW024
			2	–	EVW025
			5	–	EVW028
			10	–	EVW029
			0.3	–	EVW036
			0.6	–	EVW022
			1	–	EVW030
			2	–	EVW031
			5	–	EVW034
			10	–	EVW035
			1	•	EVW038
			2	•	EVW039
			5	•	EVW041
			10	•	EVW042
			1	•	EVW043
			2	•	EVW044
			5	•	EVW046
			10	•	EVW047
M12 connector 5 poles · M12 socket 5 poles					
			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

• LED: signal yellow, operating voltage green

Wiring diagram / wire specification

		Socket			
Connector	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 mm², Ø 4.9 mm

		Socket				
Connector	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 mm², Ø 5.1 mm

Technical data

Type	Operating voltage / operating voltage with LED [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 4 poles	250 AC, 300 DC / 10...36 DC	4	-25...90	IP 67 / IP 68 / IP 69K	PUR	TPI, CuZn, non-stick coating	0.6...1.5
M12 5 poles	60 AC, 60 DC	4	-25...90	IP 67 / IP 68 / IP 69K	TPU	CuZn Ni, non-stick coating	0.6...1.5

ecolink for hazardous areas.

ENC / EVC series



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.

M12 connection cables

eco link	Type	Pin assignment	Cable [m]	Order no.
M12 socket 4 poles				
			2	ENC01A
			5	ENC02A
			10	ENC03A
			2	ENC04A
			5	ENC05A
			10	ENC06A
M12 socket 5 poles				
			2	ENC07A
			5	ENC08A
			10	ENC09A
			2	ENC10A
			5	ENC11A
			10	ENC12A

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 mm², 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 mm², 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 2 G 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 2 G Ex ia IIC T5 Gb
II 1D Ex ia IIIC T95°C Da











M12 connection cables

eco link	Type	Pin assignment connector	Pin assignment socket	Cable [m]	Order no.
M12 socket 4 poles					
	-			2	EVC04A
				5	EVC05A
				10	EVC06A

M12 connection cables

eco link	Type	Pin assignment connector	Pin assignment socket	Cable [m]	Order no.
M12 connector 4 poles · M12 socket 4 poles					
				0.3	EVC09A
				0.6	EVC10A
				1	EVC11A
				2	EVC07A
				5	EVC12A
				10	EVC13A

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 [V]	Current rating [A]	Ambient temperature [°C]	Protection rating	Material housing	Material locking nut	Tightening torque [Nm]
M12 type EVC	60 AC, 60 DC	2	-20...60	IP 67	TPU	GRIVORY GV-GH high-grade stainless steel (316L/1.4404)	1.2...1.5
M12 type ENC	...30 DC	1	-20...90 ¹⁾	IP 67	TPU		0.6...1.5

¹⁾ When used in hazardous areas: ambient temperature according to the 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).

Wiring diagram / wire specification

Socket				
PIN	1	2	3	4
Colours	BN	WH	BU	BK

PUR cable black, halogen-free
4 x 0.34 mm², Ø 4.9 mm

Wiring diagram / wire specification

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

PUR cable black, halogen-free
4 x 0.34 mm², Ø 4.9 mm

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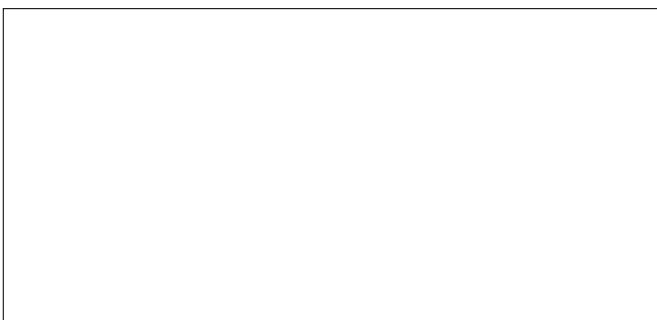
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