

# CF.INI

Sensor/actuator



## chainflex® readycable®



Cable type	Jacket	Page
<b>Sensor/actuator CF9 - CF.INI (minimum bend radius 5 x d)</b>		
 Connection cable M12 x 1, straight/angled	TPE	527
 Linking cable M12 x 1, straight/angled	TPE	527
 Connection cable M12 x 1, straight/angled, LED	TPE	529
 Connection cable M8 x 1, straight/angled	TPE	531
 Linking cable M8 x 1, straight/angled	TPE	531
 Connection cable M8 x 1, angled, LED	TPE	533
<b>Sensor/actuator CF10 - CF.INI (minimum bend radius 5 x d) 360° shielded</b>		
 Connection cable M12 x 1, straight/angled	TPE	535
 Linking cable M12 x 1, straight/angled	TPE	535
<b>Sensor/actuator CF98 - CF.INI (minimum bend radius 4 x d)</b>		
 Connection cable M12 x 1, straight/angled	TPE	537
 Linking cable M12 x 1, straight/angled	TPE	537
 Connection cable M8 x 1, straight/angled	TPE	539
 Linking cable M8 x 1, straight/angled	TPE	539
<b>chainflex® cables for actuator/sensor distribution box</b>		
 Connection cable M23, straight	TPE	540
 Linking cable M23, straight/angled	TPE	540
 Connection cable M12, straight	TPE	541



igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



# Harnessed sensor/actuator cables

## Connection and Linking cables M12 x 1 Bend radius, e-chain®: minimum 5 x d

### Electrical information

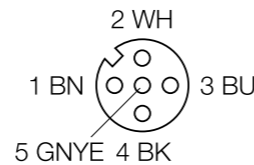
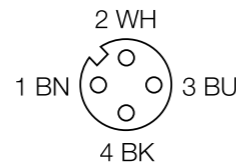
Number of poles	5-pole	4-pole
Ampacity	4A	4A
Rated voltage	60V	250V
Insulating resistance	≥ 10 <sup>9</sup> Ω	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ	≤ 5mΩ
Pollution degree	3/2	3/2
Ambient temperature	-35°C up to +105°C	-35°C up to +105°C
Protection class	IP69K, in screwed state	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles	max. 100 insertion cycles

### Technical data

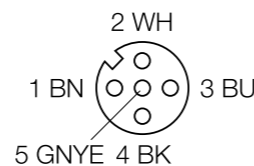
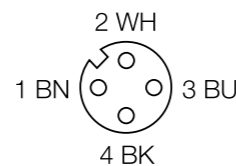
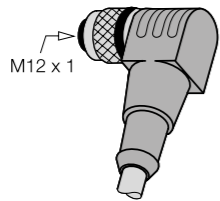
Design	Coupling	Connector
Connector	Coupling, M12 x 1	Connector, M12 x 1
Handle base	Plastic, PP, black	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
Contact base	Plastic, PP, black	Plastic, TPU, black
Contacts	Metal, CuZn, gold-plated	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)	

#### Harnessed with these connectors

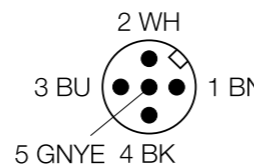
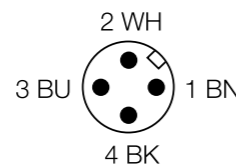
#### Cable socket M12-BG



#### Angled socket M12-BW



#### Cable connector M12-SG



Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
------	----------	--	--------	------------------

#### Connection cable M12

#### Cable socket M12/ open cable end



CF.INI-P4-M12-BG-3	MAT9043700	4x0.34	5.0	3
CF.INI-P4-M12-BG-5	MAT9043701	4x0.34	5.0	5
CF.INI-P4-M12-BG-7	MAT9043702	4x0.34	5.0	7
CF.INI-P4-M12-BG-10	MAT9043703	4x0.34	5.0	10
CF.INI-P4-M12-BG-15	MAT9049426	4x0.34	5.0	15
CF.INI-P5-M12-BG-3	MAT9043737	5x0.34	5.5	3
CF.INI-P5-M12-BG-5	MAT9043738	5x0.34	5.5	5
CF.INI-P5-M12-BG-7	MAT9043739	5x0.34	5.5	7
CF.INI-P5-M12-BG-10	MAT9043740	5x0.34	5.5	10
CF.INI-P5-M12-BG-15	MAT90410077	5x0.34	5.5	15

#### Angled socket M21/ open cable end



CF.INI-P4-M12-BW-3	MAT9043704	4x0.34	5.0	3
CF.INI-P4-M12-BW-5	MAT9043705	4x0.34	5.0	5
CF.INI-P4-M12-BW-7	MAT9043706	4x0.34	5.0	7
CF.INI-P4-M12-BW-10	MAT9043707	4x0.34	5.0	10
CF.INI-P4-M12-BW-15	MAT9049430	4x0.34	5.0	15
CF.INI-P5-M12-BW-3	MAT9043742	5x0.34	5.5	3
CF.INI-P5-M12-BW-5	MAT9043743	5x0.34	5.5	5
CF.INI-P5-M12-BW-7	MAT9043744	5x0.34	5.5	7
CF.INI-P5-M12-BW-10	MAT9043745	5x0.34	5.5	10
CF.INI-P5-M12-BW-15	MAT90410078	5x0.34	5.5	15

#### Linking cable M12

#### Cable socket M12/ cable connector M12



CF.INI-P4-M12-BG/M12-SG-2	MAT90410312 <sup>1)</sup>	4x0.34	5.0	2
CF.INI-P4-M12-BG/M12-SG-5	MAT90410313 <sup>1)</sup>	4x0.34	5.0	5
CF.INI-P4-M12-BG/M12-SG-10	MAT90410314 <sup>1)</sup>	4x0.34	5.0	10
CF.INI-P5-M12-BG/M12-SG-2	MAT90410339 <sup>1)</sup>	5x0.34	5.5	2
CF.INI-P5-M12-BG/M12-SG-5	MAT90410340 <sup>1)</sup>	5x0.34	5.5	5
CF.INI-P5-M12-BG/M12-SG-10	MAT90410341 <sup>1)</sup>	5x0.34	5.5	10

#### Cable socket M12/ cable connector M12



CF.INI-P4-M12-BW/M12-SG-2	MAT90410315 <sup>1)</sup>	4x0.34	5.0	2
CF.INI-P4-M12-BW/M12-SG-5	MAT90410316 <sup>1)</sup>	4x0.34	5.0	5
CF.INI-P4-M12-BW/M12-SG-10	MAT90410317 <sup>1)</sup>	4x0.34	5.0	10
CF.INI-P5-M12-BW/M12-SG-2	MAT90410342 <sup>1)</sup>	5x0.34	5.5	2
CF.INI-P5-M12-BW/M12-SG-5	MAT90410343 <sup>1)</sup>	5x0.34	5.5	5
CF.INI-P5-M12-BW/M12-SG-10	MAT90410344 <sup>1)</sup>	5x0.34	5.5	10

<sup>1)</sup>Delivery time upon request

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Example images/illustrations

# Harnessed sensor/actuator cables

## Connection cable with LED M12 x 1: Bend radius, e-chain®: minimum 5 x d

### Electrical information

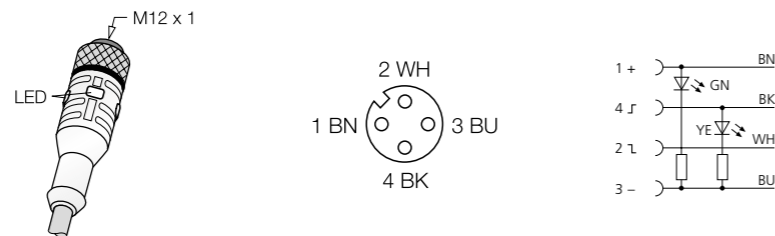
Number of poles	<b>4-pole</b>
Ampacity	4A
Rated voltage	30V
Insulating resistance	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ
Pollution degree	3/2
Operating voltage display	LED green
Switching state display	LED yellow/yellow
Switching function	pnp
Ambient temperature	-35°C up to +105°C
Protection class	IP66, in screwed state
Mechanical service life	max. 100 insertion cycles

### Technical data

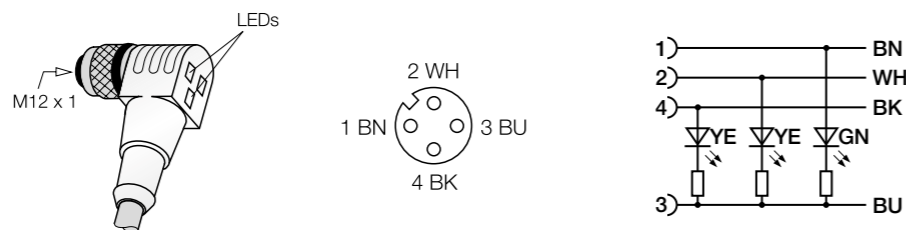
Design	<b>Coupling</b>
Connector	Coupling, M12 x 1
Handle base	Plastic, TPU, transparent
Union nut/screw	Metal, CuZn, nickel-plated
Contact base	Plastic, PA6GF, transparent
Contacts	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)

### Harnessed with these connectors

#### Cable socket with LED M12-BGL



#### Angled socket with LED M12-BWL



Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
<b>Connection cable M12</b>				

#### Cable socket M12 with LED/ open cable end



CF.INI-P4-M12-BGL2-3	MAT9043708	4x0.34	5.0	3
CF.INI-P4-M12-BGL2-5	MAT9043709	4x0.34	5.0	5
CF.INI-P4-M12-BGL2-7	MAT9043710	4x0.34	5.0	7
CF.INI-P4-M12-BGL2-10	MAT9043711	4x0.34	5.0	10
CF.INI-P4-M12-BGL2-15	MAT90410087	4x0.34	5.0	15

#### Angled socket M12 with LED/ open cable end



CF.INI-P4-M12-BWL3-3	MAT9043712	4x0.34	5.0	3
CF.INI-P4-M12-BWL3-5	MAT9043713	4x0.34	5.0	5
CF.INI-P4-M12-BWL3-7	MAT9043714	4x0.34	5.0	7
CF.INI-P4-M12-BWL3-10	MAT9043715	4x0.34	5.0	10
CF.INI-P4-M12-BWL3-15	MAT90410088	4x0.34	5.0	15

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Example images/illustrations

# Harnessed sensor/actuator cables

## Connection and linking cables M8 x 1: Bend radius, e-chain®: minimum 5 x d

### Electrical information

	3-pole	4-pole
Number of poles	3	4
Ampacity	4A	4A
Rated voltage	60V	30V
Insulating resistance	≥ 10 <sup>9</sup> Ω	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ	≤ 5mΩ
Pollution degree	3/2	3/2
Ambient temperature	-35°C up to +105°C	-35°C up to +105°C
Protection class	IP69K, in screwed state	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles	max. 100 insertion cycles

### Technical data

	Coupling	Connector
Design	Coupling, M8 x 1	Connector, M8 x 1
Connector	Plastic, PP, black	Plastic, PP, black
Handle base	Plastic, PP, black	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
Contact base	Plastic, PP, black	Plastic, PP, black
Contacts	Metal, CuZn, gold-plated	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)	

### Harnessed with these connectors

**Cable socket M8-BG**

**Cable connector M8-SG**

**Angled socket M8-BW**

Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
<b>Connection cable M8</b>				

### Cable socket M8/ open cable end



CF.INI-P3-M8-BG-3	MAT9043716	3x0.25	4.5	3
CF.INI-P3-M8-BG-5	MAT9043717	3x0.25	4.5	5
CF.INI-P3-M8-BG-7	MAT9043718	3x0.25	4.5	7
CF.INI-P3-M8-BG-10	MAT9043719	3x0.25	4.5	10
CF.INI-P3-M8-BG-15	MAT9049416	3x0.25	4.5	15
CF.INI-P4-M8-BG-3	MAT9043728	4x0.34	5.0	3
CF.INI-P4-M8-BG-5	MAT9043729	4x0.34	5.0	5
CF.INI-P4-M8-BG-7	MAT9043730	4x0.34	5.0	7
CF.INI-P4-M8-BG-10	MAT9043731	4x0.34	5.0	10
CF.INI-P4-M8-BG-15	MAT9049466	4x0.34	5.0	15

### Angled socket M8/ open cable end



CF.INI-P3-M8-BW-3	MAT9043724	3x0.25	4.5	3
CF.INI-P3-M8-BW-5	MAT9043725	3x0.25	4.5	5
CF.INI-P3-M8-BW-7	MAT9043726	3x0.25	4.5	7
CF.INI-P3-M8-BW-10	MAT9043727	3x0.25	4.5	10
CF.INI-P3-M8-BW-15	MAT9049419	3x0.25	4.5	15
CF.INI-P4-M8-BW-3	MAT9043732	4x0.34	5.0	3
CF.INI-P4-M8-BW-5	MAT9043733	4x0.34	5.0	5
CF.INI-P4-M8-BW-7	MAT9043734	4x0.34	5.0	7
CF.INI-P4-M8-BW-10	MAT9043735	4x0.34	5.0	10
CF.INI-P4-M8-BW-15	MAT9049467	4x0.34	5.0	15

### Linking cable M8

### M8 cable socket/ M8 cable connector



CF.INI-P3-M8-BG/M8-SG-2	MAT90410324 <sup>1)</sup>	3x0.25	4.5	2
CF.INI-P3-M8-BG/M8-SG-5	MAT90410325 <sup>1)</sup>	3x0.25	4.5	5
CF.INI-P3-M8-BG/M8-SG-10	MAT90410326 <sup>1)</sup>	3x0.25	4.5	10
CF.INI-P4-M8-BG/M8-SG-2	MAT90410333 <sup>1)</sup>	4x0.34	5.0	2
CF.INI-P4-M8-BG/M8-SG-5	MAT90410334 <sup>1)</sup>	4x0.34	5.0	5
CF.INI-P4-M8-BG/M8-SG-10	MAT90410335 <sup>1)</sup>	4x0.34	5.0	10

### Angled socket M8/ cable connector M8



CF.INI-P3-M8-BW/M8-SG-2	MAT90410330 <sup>1)</sup>	3x0.25	4.5	2
CF.INI-P3-M8-BW/M8-SG-5	MAT90410331 <sup>1)</sup>	3x0.25	4.5	5
CF.INI-P3-M8-BW/M8-SG-10	MAT90410332 <sup>1)</sup>	3x0.25	4.5	10
CF.INI-P4-M8-BW/M8-SG-2	MAT90410336 <sup>1)</sup>	4x0.34	5.0	2
CF.INI-P4-M8-BW/M8-SG-5	MAT90410337 <sup>1)</sup>	4x0.34	5.0	5
CF.INI-P4-M8-BW/M8-SG-10	MAT90410338 <sup>1)</sup>	4x0.34	5.0	10

<sup>1)</sup>Delivery time upon request

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Example images/illustrations

# Harnessed sensor/actuator cables

## Connection cables with LED M8 x 1: Bend radius, e-chain®: minimum 5 x d

### Electrical information

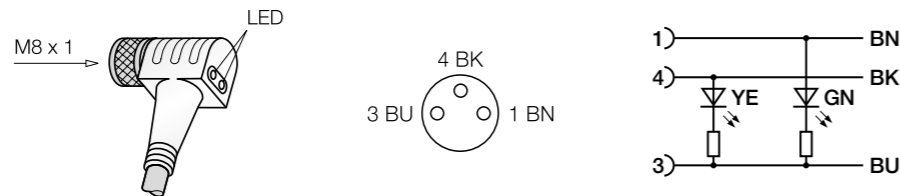
Number of poles	<b>3-pole</b>
Ampacity	4A
Rated voltage	30V
Insulating resistance	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ
Pollution degree	3/2
Operating voltage display	LED green
Switching state display	LED yellow/yellow
Switching function	pnp
Ambient temperature	-35°C up to +105°C
Protection class	IP66, in screwed state
Mechanical service life	max. 100 insertion cycles

### Technical data

Design	<b>Coupling</b>
Connector	Coupling, M8 x 1
Handle base	Plastic, TPU, transparent
Union nut/screw	Metal, CuZn, nickel-plated
Contact base	Plastic, PA6GF, black
Contacts	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)

### Harnessed with these connectors

#### Angled socket with LED M8-BWL



Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
<b>Connection cable M8</b>				
<b>Angled socket M8 with LED/ open cable end</b>				
<b>CF.INI-P3-M8-BWL2-3</b>	MAT9043720	3x0.25	4.5	3
<b>CF.INI-P3-M8-BWL2-5</b>	MAT9043721	3x0.25	4.5	5
<b>CF.INI-P3-M8-BWL2-7</b>	MAT9043722	3x0.25	4.5	7
<b>CF.INI-P3-M8-BWL2-10</b>	MAT9043723	3x0.25	4.5	10
<b>CF.INI-P3-M8-BWL2-15</b>	MAT90410196	3x0.25	4.5	15

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Example images/illustrations

# Harnessed sensor/actuator cables

Connection and linking cables 360° shielded, M12 x 1:  
Bend radius, e-chain®: minimum 5 x d

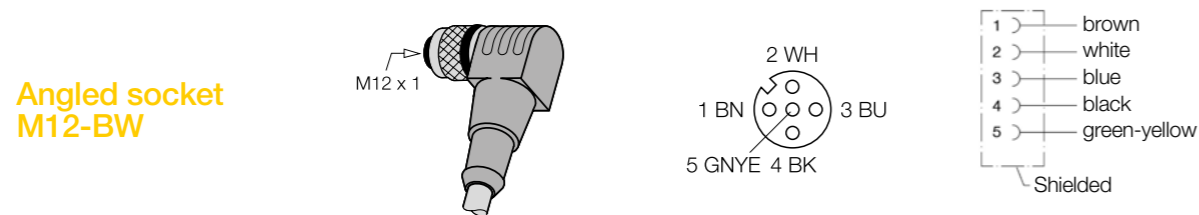
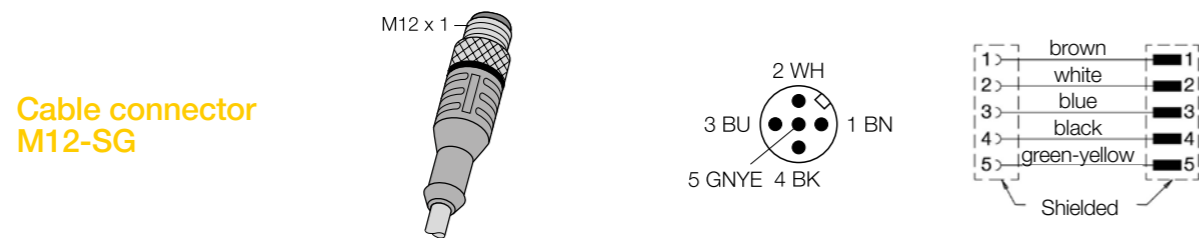
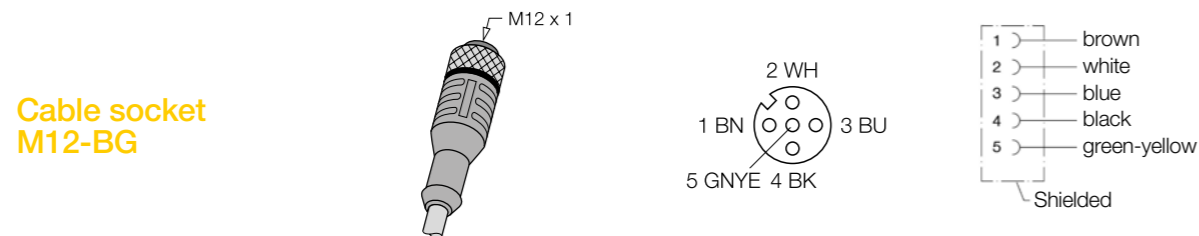
## Electrical information

Number of poles	<b>5-pole (4-pole + PE)</b>
Ampacity	4A
Rated voltage	60V
Insulating resistance	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ
Pollution degree	3/2
Ambient temperature	-35°C up to +105°C
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles

## Technical data

Design	<b>Coupling</b>
Connector	Coupling, M12 x 1
Handle base	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated
Contact base	Plastic, PP, black
Contacts	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)

### Harnessed with these connectors



Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
<b>Connection cable M12</b>				

### Cable socket M12/ open cable end



CF10.INI-P5-C-M12-BG-3	MAT90424072	(5x0.34)C	7.0	3
CF10.INI-P5-C-M12-BG-5	MAT90424073	(5x0.34)C	7.0	5
CF10.INI-P5-C-M12-BG-7	MAT90424074	(5x0.34)C	7.0	7
CF10.INI-P5-C-M12-BG-10	MAT90424075	(5x0.34)C	7.0	10
CF10.INI-P5-C-M12-BG-15	MAT90424076	(5x0.34)C	7.0	15

### Angled socket M21/ open cable end



CF10.INI-P5-C-M12-BW-3	MAT90424077	(5x0.34)C	7.0	3
CF10.INI-P5-C-M12-BW-5	MAT90424078	(5x0.34)C	7.0	5
CF10.INI-P5-C-M12-BW-7	MAT90424079	(5x0.34)C	7.0	7
CF10.INI-P5-C-M12-BW-10	MAT90424080	(5x0.34)C	7.0	10
CF10.INI-P5-C-M12-BW-15	MAT90424081	(5x0.34)C	7.0	15

### Linking cable M12

### Cable socket M12/ cable connector M12



CF10.INI-P5-C-M12-BG/M12-SG-2	MAT90424082 <sup>1)</sup>	(5x0.34)C	7.0	2
CF10.INI-P5-C-M12-BG/M12-SG-5	MAT90424083 <sup>1)</sup>	(5x0.34)C	7.0	5
CF10.INI-P5-C-M12-BG/M12-SG-10	MAT90424084 <sup>1)</sup>	(5x0.34)C	7.0	10

### Cable socket M12/ cable connector M12



CF10.INI-P5-C-M12-BW/M12-SG-2	MAT90424085 <sup>1)</sup>	(5x0.34)C	7.0	2
CF10.INI-P5-C-M12-BW/M12-SG-5	MAT90424086 <sup>1)</sup>	(5x0.34)C	7.0	5
CF10.INI-P5-C-M12-BW/M12-SG-10	MAT90424087 <sup>1)</sup>	(5x0.34)C	7.0	10

<sup>1)</sup>Delivery time upon request

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Example images/illustrations

# Harnessed sensor/actuator cables

## Connection and linking cables M12 x 1: Bend radius, e-chain®: minimum 4 x d

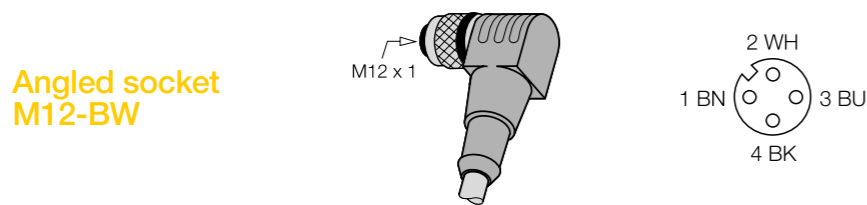
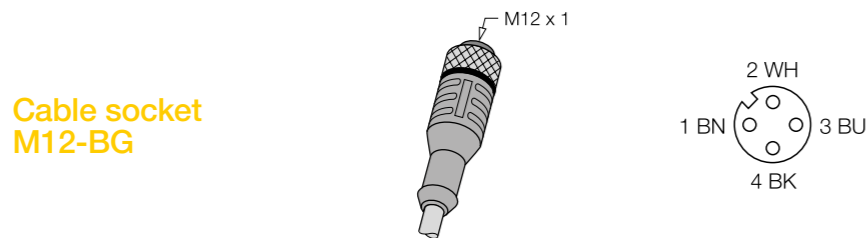
### Electrical information

Number of poles	<b>4-pole</b>
Ampacity	4A
Rated voltage	250V
Insulating resistance	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ
Pollution degree	3/2
Ambient temperature	-35°C up to +105°C
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles

### Technical data

Design	<b>Coupling</b>	<b>Connector</b>
Connector	Coupling, M12 x 1	Connector, M12x1
Handle base	Plastic, PP, black	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
Contact base	Plastic, TPU, black	Plastic, TPU, black
Contacts	Metal, CuZn, gold-plated	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)	

### Harnessed with these connectors



Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
<b>Connection cable M12</b>				

### Cable socket M12/ open cable end



CF98.INI-P4-M12-BG-3	MAT90410235 <sup>1)</sup>	4x0.34	6.0	3
CF98.INI-P4-M12-BG-5	MAT90410236 <sup>1)</sup>	4x0.34	6.0	5
CF98.INI-P4-M12-BG-7	MAT90410237 <sup>1)</sup>	4x0.34	6.0	7
CF98.INI-P4-M12-BG-10	MAT90410238 <sup>1)</sup>	4x0.34	6.0	10
CF98.INI-P4-M12-BG-15	MAT90410239 <sup>1)</sup>	4x0.34	6.0	15

### Angled socket M21/ open cable end



CF98.INI-P4-M12-BW-3	MAT90410240 <sup>1)</sup>	4x0.34	6.0	3
CF98.INI-P4-M12-BW-5	MAT90410241 <sup>1)</sup>	4x0.34	6.0	5
CF98.INI-P4-M12-BW-7	MAT90410242 <sup>1)</sup>	4x0.34	6.0	7
CF98.INI-P4-M12-BW-10	MAT90410243 <sup>1)</sup>	4x0.34	6.0	10
CF98.INI-P4-M12-BW-15	MAT90410244 <sup>1)</sup>	4x0.34	6.0	15

### Linking cable M12

### Cable socket M12/ cable connector M12



CF98.INI-P4-M12-BG/M12-SG-2	MAT90410300 <sup>1)</sup>	4x0.34	6.0	2
CF98.INI-P4-M12-BG/M12-SG-5	MAT90410301 <sup>1)</sup>	4x0.34	6.0	5
CF98.INI-P4-M12-BG/M12-SG-10	MAT90410302 <sup>1)</sup>	4x0.34	6.0	10

### Cable socket M12/ cable connector M12



CF98.INI-P4-M12-BW/M12-SG-2	MAT90410303 <sup>1)</sup>	4x0.34	6.0	2
CF98.INI-P4-M12-BW/M12-SG-5	MAT90410304 <sup>1)</sup>	4x0.34	6.0	5
CF98.INI-P4-M12-BW/M12-SG-10	MAT90410305 <sup>1)</sup>	4x0.34	6.0	10

<sup>1)</sup> Delivery time upon request

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Example images/illustrations

# Harnessed sensor/actuator cables

## Connection and linking cables M8 x 1: Bend radius, e-chain®: minimum 4 x d

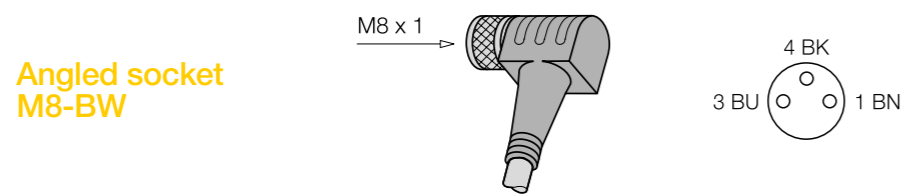
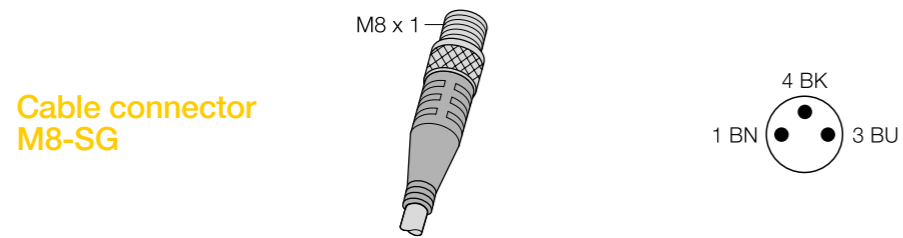
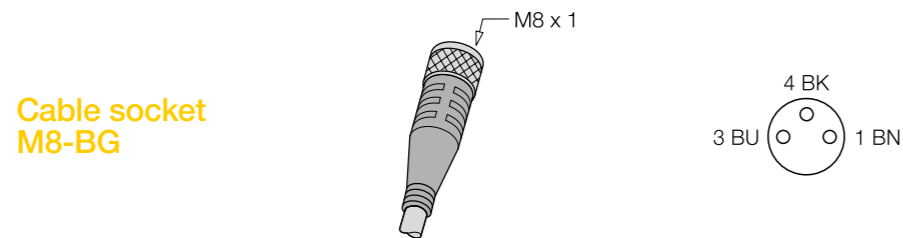
### Electrical information

Number of poles	<b>3-pole</b>
Ampacity	4A
Rated voltage	60V
Insulating resistance	≥ 10 <sup>9</sup> Ω
Contact resistance	≤ 5mΩ
Pollution degree	3/2
Ambient temperature	-35°C up to +105°C
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles

### Technical data

Design	<b>Coupling</b>	<b>Connector</b>
Connector	Coupling, M8 x 1	Connector, M8x1
Handle base	Plastic, PP, black	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
Contact base	Plastic, TPU, black	Plastic, TPU, black
Contacts	Metal, CuZn, gold-plated	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)	

### Harnessed with these connectors



Example images/illustrations

Type	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Cable length [m]
<b>Connection cable M8</b>				

### Cable socket M8/ open cable end



<b>CF98.INI-P3-M8-BG-3</b>	MAT90410245 <sup>1)</sup>	3x0.25	5.0	3
<b>CF98.INI-P3-M8-BG-5</b>	MAT90410246 <sup>1)</sup>	3x0.25	5.0	5
<b>CF98.INI-P3-M8-BG-7</b>	MAT90410247 <sup>1)</sup>	3x0.25	5.0	7
<b>CF98.INI-P3-M8-BG-10</b>	MAT90410248 <sup>1)</sup>	3x0.25	5.0	10
<b>CF98.INI-P3-M8-BG-15</b>	MAT90410249 <sup>1)</sup>	3x0.25	5.0	15

### Angled socket M8/ open cable end



<b>CF98.INI-P3-M8-BW-3</b>	MAT90410250 <sup>1)</sup>	3x0.25	5.0	3
<b>CF98.INI-P3-M8-BW-5</b>	MAT90410251 <sup>1)</sup>	3x0.25	5.0	5
<b>CF98.INI-P3-M8-BW-7</b>	MAT90410252 <sup>1)</sup>	3x0.25	5.0	7
<b>CF98.INI-P3-M8-BW-10</b>	MAT90410253 <sup>1)</sup>	3x0.25	5.0	10
<b>CF98.INI-P3-M8-BW-15</b>	MAT90410254 <sup>1)</sup>	3x0.25	5.0	15

### Linking cable M8

### M8 cable socket/ M8 cable connector



<b>CF98.INI-P3-M8-BG/M8-SG-2</b>	MAT90410306 <sup>1)</sup>	3x0.25	5.0	2
<b>CF98.INI-P3-M8-BG/M8-SG-5</b>	MAT90410307 <sup>1)</sup>	3x0.25	5.0	5
<b>CF98.INI-P3-M8-BG/M8-SG-10</b>	MAT90410308 <sup>1)</sup>	3x0.25	5.0	10

### Angled socket M8/ cable connector M8



<b>CF98.INI-P3-M8-BW/M8-SG-2</b>	MAT90410309 <sup>1)</sup>	3x0.25	5.0	2
<b>CF98.INI-P3-M8-BW/M8-SG-5</b>	MAT90410310 <sup>1)</sup>	3x0.25	5.0	5
<b>CF98.INI-P3-M8-BW/M8-SG-10</b>	MAT90410311 <sup>1)</sup>	3x0.25	5.0	10

<sup>1)</sup> Delivery time upon request

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Also sold by the meter to your required length, unassembled. igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961









Example images/illustrations



## Sensor/actuator distribution box

To connect sensor/actuator distribution boxes

### Connection cable M23: Socket/Pin at the cable front, cable ends cut

Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]
<b>Connection cable M23</b>		
<b>Socket M23/ open cable end</b>		
<b>MAT90436630</b> <sup>1)</sup>	16x0.34+3x0.75	11.0
<b>Connector M23/ open cable end</b>		
<b>MAT90436631</b> <sup>1)</sup>	16x0.34+3x0.75	11.0
<b>Connection cable M23</b>		
<b>Connector M23/ angled socket M23</b>		
<b>MAT90436629</b>	16x0.34+3x0.75	11.0
<b>Connector M23/ socket M23</b>		
<b>MAT90436628</b>	16x0.34+3x0.75	11.0

<sup>1)</sup>igus® gladly pre-harnesses the cable according to your technical guidelines.

All cables available to your required length.









**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Example images.  
\* igus® gladly pre-harnesses the cable according to your technical guidelines.  
G = with green-yellow earth core x = without earth core  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Example images/illustrations

## Sensor/actuator distribution box

To connect sensor/actuator distribution boxes

### Connection cable M12: Socket at the cable front, Pin at the cable end

Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]
<b>Connection cable M12</b>		
<b>Socket M12, A-coded/ Connector M12, A-coded</b>		
<b>MAT90478773</b>	8x0.25	6.5
<b>MAT90478776</b>	12x0.25	8.0
<b>Socket M12, A-coded/ open cable end</b>		
<b>MAT90478774</b>	8x0.25	6.5
<b>MAT90478777</b>	12x0.25	8.0
<b>Connector M12, A-coded/ open cable end</b>		
<b>MAT90478775</b>	8x0.25	6.5
<b>MAT90478778</b>	12x0.25	8.0

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits. Example images.  
G = with green-yellow earth core x = without earth core  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Example images/illustrations

