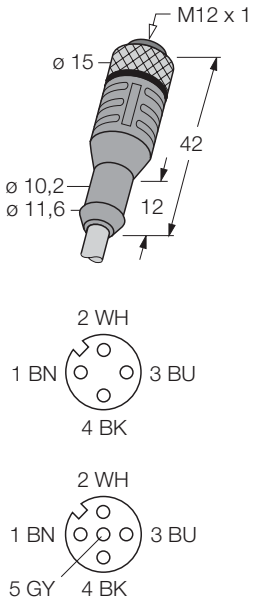
CF-INI

Chainflex® sensor/actuator cables with 5xd for Energy Chains®
M12 connector, single end cordset

Plug-type 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)
Number of poles	4-pole
Ampacity	4 A
Rated voltage of a winding	max. 250 V
Number of poles	5-pole (4-pole + PE)
Ampacity	4 A
Rated voltage of a winding	max. 60 V
Insulation resistance	≥10^9 Ohm
Contact resistance	≥5 m Ohm
Ambient temperature of plug-type connector	-40°F to +221°F (-40 °C to +105 °C)
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles

BG



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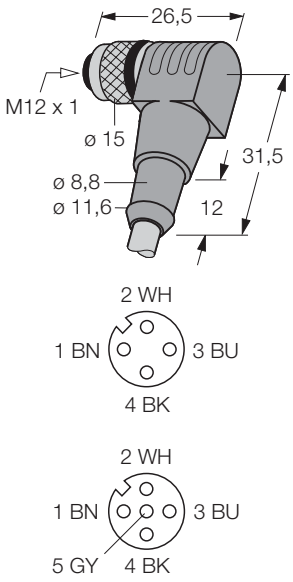


CF9-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft.	Cable length (m)	Connector Type
CF-INI-P4-M12-BG-3	MAT9043700	4	9.84	(3.0)	BG
CF-INI-P4-M12-BG-5	MAT9043701	4	16.41	(5.0)	BG
CF-INI-P4-M12-BG-7	MAT9043702	4	22.97	(7.0)	BG
CF-INI-P4-M12-BG-10	MAT9043703	4	32.81	(10.0)	BG
CF-INI-P4-M12-BG-15	MAT9049426	4	49.22	(15.0)	BG
CF9-03-05-INI* (5 x 0.34)					
CF-INI-P5-M12-BG-3	MAT9043737	5	9.84	(3.0)	BG
CF-INI-P5-M12-BG-5	MAT9043738	5	16.41	(5.0)	BG
CF-INI-P5-M12-BG-7	MAT9043739	5	22.97	(7.0)	BG
CF-INI-P5-M12-BG-10	MAT9043740	5	32.81	(10.0)	BG
CF-INI-P5-M12-BG-15	MAT90410077	5	49.22	(15.0)	BG

CF9-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft.	Cable length (m)	Connector Type
CF-INI-P4-M12-BW-3	MAT9043704	4	9.84	(3.0)	BW
CF-INI-P4-M12-BW-5	MAT9043705	4	16.41	(5.0)	BW
CF-INI-P4-M12-BW-7	MAT9043706	4	22.97	(7.0)	BW
CF-INI-P4-M12-BW-10	MAT9043707	4	32.81	(10.0)	BW
CF-INI-P4-M12-BW-15	MAT9049430	4	49.22	(15.0)	BW
CF9-03-05-INI* (5 x 0.34)					
CF-INI-P5-M12-BW-3	MAT9043742	5	9.84	(3.0)	BW
CF-INI-P5-M12-BW-5	MAT9043743	5	16.41	(5.0)	BW
CF-INI-P5-M12-BW-7	MAT9043744	5	22.97	(7.0)	BW
CF-INI-P5-M12-BW-10	MAT9043745	5	32.81	(10.0)	BW
CF-INI-P5-M12-BW-15	MAT90410078	5	49.22	(15.0)	BW

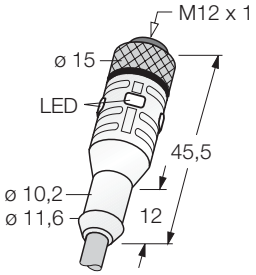
*Refer to the CF9 page in the Control Cable section for more cable information

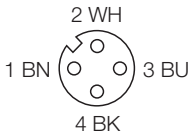
CF-INI

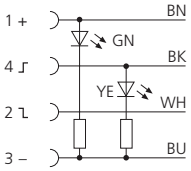
M12 connector, single end cordset, LED

Plug-type 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)
Number of poles	4-pole
Ampacity	4 A
Rated voltage of a winding	10...30 V
Insulation resistance	≥ 10^9 Ohm
Contact resistance	≥ 5 m Ohm
Operating voltage display	LED green
Switching state display	LED yellow/yellow
Switching function	pnp
Ambient temperature of plug-type connector	-40°F to +221°F (-40 °C to +105 °C)
Protection class	IP66, in screwed state
Mechanical service life	max. 100 Steckzyklen

BGL







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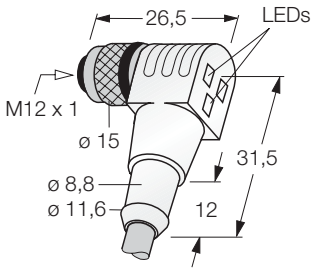
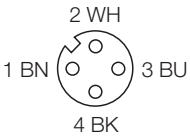
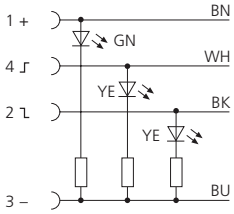






CF9-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft.	(m)	Connector Type
CF-INI-P4-M12-BGL2-3	MAT9043708	4	9.84	(3.0)	BGL
CF-INI-P4-M12-BGL2-5	MAT9043709	4	16.41	(5.0)	BGL
CF-INI-P4-M12-BGL2-7	MAT9043710	4	22.97	(7.0)	BGL
CF-INI-P4-M12-BGL2-10	MAT9043711	4	32.81	(10.0)	BGL
CF-INI-P4-M12-BGL2-15	MAT90410087	4	49.22	(15.0)	BGL

CF9-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft.	(m)	Connector Type
CF-INI-P4-M12-BWL3-3	MAT9043712	4	9.84	(3.0)	BWL
CF-INI-P4-M12-BWL3-5	MAT9043713	4	16.41	(5.0)	BWL
CF-INI-P4-M12-BWL3-7	MAT9043714	4	22.97	(7.0)	BWL
CF-INI-P4-M12-BWL3-10	MAT9043715	4	32.81	(10.0)	BWL
CF-INI-P4-M12-BWL3-15	MAT90410088	4	49.22	(15.0)	BWL

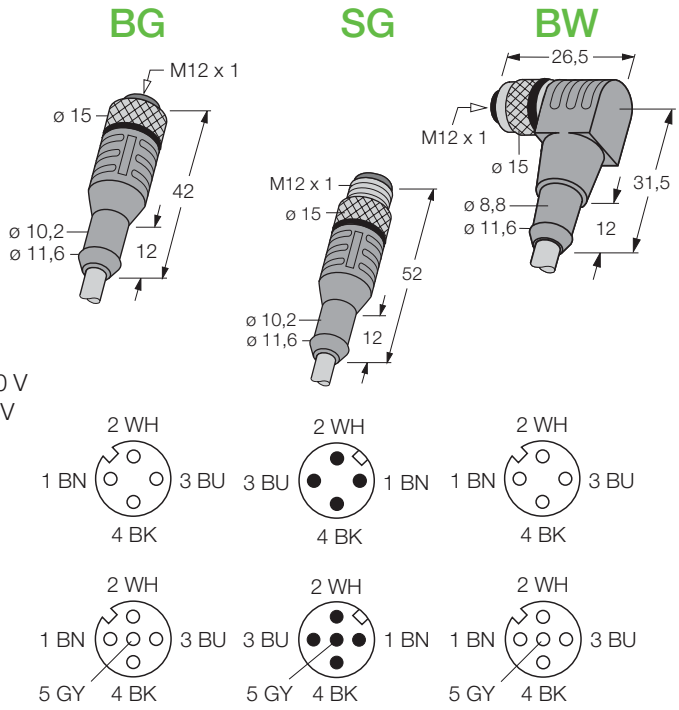
*Refer to the CF9 page in the Control Cable section for more cable information

PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/RFQ: www.igus.com/chainflex.asp
RoHS info: www.igus.com/RoHS.asp

CF-INI

Connection cable M12 x 1, connector on each end

Plug-type 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)
Plug-type connector	Connector, M12 x 1
Handle base	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated
Contact base	Plastic, TPU, black
Contacts	Metal, CuZn, gold-plated
Rated voltage of a winding	4-pole: max. 250 V 5-pole (4-pole+PE): max. 60 V
Ampacity	4 A
Insulation resistance	≥10^9 Ohm
Contact resistance	≥5 m Ohm
Ambient temperature of plug-type connector	-40°F to +221°F (-40 °C to +105 °C)
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles



CF9-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft.	(m)	Connector Type	
CF-INI-P4-M12-BG / M12-SG-2	MAT90410312	4	6.56	(2.0)	BG	SG
CF-INI-P4-M12-BG / M12-SG-5	MAT90410313	4	16.41	(5.0)	BG	SG
CF-INI-P4-M12-BG / M12-SG-10	MAT90410314	4	32.81	(10.0)	BG	SG
CF9-03-05-INI* (5 x 0.34)						
CF-INI-P5-M12-BG / M12-SG-2	MAT90410339	5	6.56	(2.0)	BG	SG
CF-INI-P5-M12-BG / M12-SG-5	MAT90410340	5	16.41	(5.0)	BG	SG
CF-INI-P5-M12-BG / M12-SG-10	MAT90410341	5	32.81	(10.0)	BG	SG

CF9-03-04-INI* (4 x 0.34)						
CF-INI-P4-M12-BW / M12-SG-2	MAT90410315	4	6.56	(2.0)	BW	SG
CF-INI-P4-M12-BW / M12-SG-5	MAT90410316	4	16.41	(5.0)	BW	SG
CF-INI-P4-M12-BW / M12-SG-10	MAT90410317	4	32.81	(10.0)	BW	SG
CF9-03-05-INI* (5 x 0.34)						
CF-INI-P5-M12-BW / M12-SG-2	MAT90410342	5	6.56	(2.0)	BW	SG
CF-INI-P5-M12-BW / M12-SG-5	MAT90410343	5	16.41	(5.0)	BW	SG
CF-INI-P5-M12-BW / M12-SG-10	MAT90410344	5	32.81	(10.0)	BW	SG

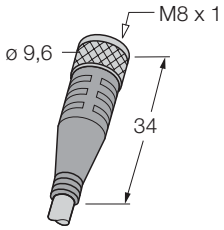
*Refer to the CF9 page in the Control Cable section for more cable information

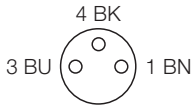
CF-INI

Direct line M8 x 1, connector , single end cordset

Plug-type connector	Coupling, M8 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)
Number of poles	3-pole
Ampacity	4 A
Rated voltage of a winding	max. 60 V
Number of poles	4-pole
Ampacity	4 A
Rated voltage of a winding	max. 30 V
Insulation resistance	≥ 10^9 Ohm
Contact resistance	≥ 5 m Ohm
Ambient temperature of plug-type connector	-40°F to +221°F (-40 °C to +105 °C)
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles

BG





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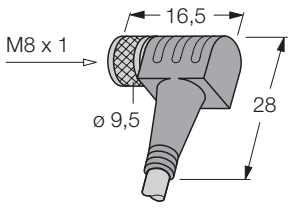
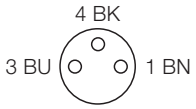
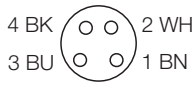






CF9-02-03-INI* (3 x 0.25) Type	Part No.	Number Poles	Cable length ft.	(m)	Connector Type
CF-INI-P3-M8-BG-3	MAT9043716	3	9.84	(3.0)	BG
CF-INI-P3-M8-BG-5	MAT9043717	3	16.41	(5.0)	BG
CF-INI-P3-M8-BG-7	MAT9043718	3	22.97	(7.0)	BG
CF-INI-P3-M8-BG-10	MAT9043719	3	32.81	(10.0)	BG
CF-INI-P3-M8-BG-15	MAT9049416	3	49.22	(15.0)	BG
CF9-03-04-INI* (4 x 0.34)					
CF-INI-P4-M8-BG-3	MAT9043728	4	9.84	(3.0)	BG
CF-INI-P4-M8-BG-5	MAT9043729	4	16.41	(5.0)	BG
CF-INI-P4-M8-BG-7	MAT9043730	4	22.97	(7.0)	BG
CF-INI-P4-M8-BG-10	MAT9043731	4	32.81	(10.0)	BG
CF-INI-P4-M8-BG-15	MAT9049466	4	49.22	(15.0)	BG

CF9-02-03-INI* (3 x 0.25)					
CF-INI-P3-M8-BW-3	MAT9043724	3	9.84	(3.0)	BW
CF-INI-P3-M8-BW-5	MAT9043725	3	16.41	(5.0)	BW
CF-INI-P3-M8-BW-7	MAT9043726	3	22.97	(7.0)	BW
CF-INI-P3-M8-BW-10	MAT9043727	3	32.81	(10.0)	BW
CF-INI-P3-M8-BW-15	MAT9049419	3	49.22	(15.0)	BW
CF9-03-04-INI* (4 x 0.34)					
CF-INI-P4-M8-BW-3	MAT9043732	4	9.84	(3.0)	BW
CF-INI-P4-M8-BW-5	MAT9043733	4	16.41	(5.0)	BW
CF-INI-P4-M8-BW-7	MAT9043734	4	22.97	(7.0)	BW
CF-INI-P4-M8-BW-10	MAT9043735	4	32.81	(10.0)	BW
CF-INI-P4-M8-BW-15	MAT9049467	4	49.22	(15.0)	BW

*Refer to the CF9 page in the Control Cable section for more cable information

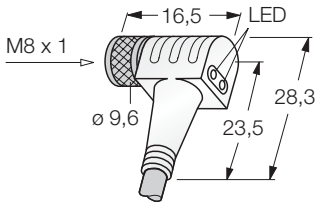
Telephone 1-800-521-2747
Fax 1-401-438-7270

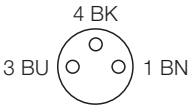
CF-INI

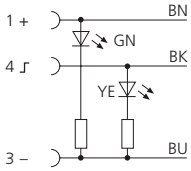
Direct line M8 x 1 connector, single end cordset, LED

Plug-type 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)
Number of poles	3-pole
Ampacity	4 A
Rated voltage of a winding	10...30 V
Insulation resistance	≥ 10^9 Ohm
Contact resistance	≥ 5 m Ohm
Operating voltage display	LED green
Switching state display	LED yellow
Switching function	pnp
Ambient temperature of plug-type connector	-40°F to +221°F (-40 °C to +105 °C)
Protection class	IP66K, in screwed state
Mechanical service life	max. 100 insertion cycles

BWL







CF9-02-03-INI* (3 x 0.25) Type	Part No.	Number Poles	Cable length ft.	(m)	Connector Type
CF-INI-P3-M8-BWL2-3	MAT9043720	3	9.84	(3.0)	BWL
CF-INI-P3-M8-BWL2-5	MAT9043721	3	16.41	(5.0)	BWL
CF-INI-P3-M8-BWL2-7	MAT9043722	3	22.97	(7.0)	BWL
CF-INI-P3-M8-BWL2-10	MAT9043723	3	32.81	(10.0)	BWL
CF-INI-P3-M8-BWL2-15	MAT90410196	3	49.22	(15.0)	BWL

*Refer to the CF9 page in the Control Cable section for more cable information

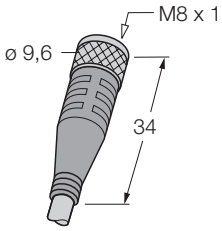
No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

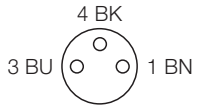
CF-INI

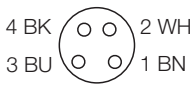
Connection cable M8 x 1, connector on each end

Plug-type connector	Coupling, M8 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)
Plug-type connector	Connector, M8 x 1
Handle base	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated
Contact base	Plastic, PP, black
Contacts	Metal, CuZn, gold-plated
Rated voltage of a winding	3-pole: max. 60 V 4-pole: max. 30 V
Ampacity	4 A
Insulation resistance	≥ 10^9 Ohm
Contact resistance	≥ 5 m Ohm
Ambient temperature of plug-type connector	-40°F to +221°F (-40°C to +105 °C)
Protection class	IP69K, in screwed state
Mechanical service life	max. 100 insertion cycles

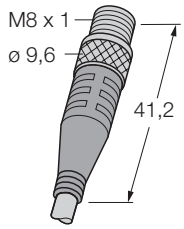
BG

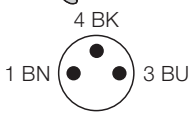






SG





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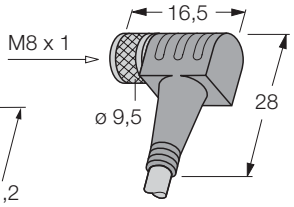

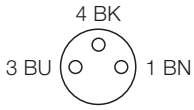

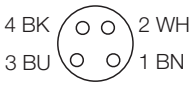

CF9-02-03-INI* (3 x 0.25) Type	Part No.	Number Poles	Cable length ft.	(m)	Connector Type	
CF-INI-P3-M8-BG / M8-SG-2	MAT90410324	3	6.56	(2.0)	BG	SG
CF-INI-P3-M8-BG / M8-SG-5	MAT90410325	3	49.22	(15.0)	BG	SG
CF-INI-P3-M8-BG / M8-SG-10	MAT90410326	3	32.81	(10.0)	BG	SG
CF9-03-04-INI* (4 x 0.34)						
CF-INI-P4-M8-BG / M8-SG-2	MAT90410333	4	6.56	(2.0)	BG	SG
CF-INI-P4-M8-BG / M8-SG-5	MAT90410334	4	49.22	(15.0)	BG	SG
CF-INI-P4-M8-BG / M8-SG-10	MAT90410335	4	32.81	(10.0)	BG	SG

CF9-02-03-INI* (3 x 0.25)						
CF-INI-P3-M8-BW / M8-SG-2	MAT90410330	3	6.56	(2.0)	BW	SG
CF-INI-P3-M8-BW / M8-SG-5	MAT90410331	3	49.22	(15.0)	BW	SG
CF-INI-P3-M8-BW / M8-SG-10	MAT90410332	3	32.81	(10.0)	BW	SG
CF9-03-04-INI* (4 x 0.34)						
CF-INI-P4-M8-BW / M8-SG-2	MAT90410336	4	6.56	(2.0)	BW	SG
CF-INI-P4-M8-BW / M8-SG-5	MAT90410337	4	49.22	(15.0)	BW	SG
CF-INI-P4-M8-BW / M8-SG-10	MAT90410338	4	32.81	(10.0)	BW	SG

*Refer to the CF9 page in the Control Cable section for more cable information

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

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Fax 1-401-438-7270