

Drive Technology



Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Servo cable



Chainflex® PUR Servo cable CF27

Harnessed according to Siemens standard servo cables

Construction

Power conductors: High flexural strength, finely stranded, bunch bare copper wires for 16-8 AWG. For those ≥ 6 AWG, copper strands are woven in groups and then braided together.

Signal pair conductors: High flexural strength, finely stranded, bunch bare copper wires.

Power conductor insulation: TPE, thin-walled version.

Signal pair insulation: Polyester, thin-walled version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Power conductor color: Black with white numbers, one conductor green-yellow.

Signal pair color: Black with white numbers.

Signal pair shield: High flexural strength copper shield, coverage approx. 90% optical, aluminum/polyester film.

Intermediate jacket: TPE-based blend, adapted to the requirements of the Energy Chain®.

Total shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket Low-adhesion PUR blend, adapted to the requirements of the Energy Chain®. Color: orange (RAL 2003).

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: -4°F to +176°F (-20°C to +80°C)

Voltage 1000V

Regulations: cRUus, DESINA, CE

BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.



Siemens Part No.	igus Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA01	MAT9060001	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA11	MAT9060002	4 x 14	1 x 17	.53 (13.5)	7.5 x d



Siemens Part No.	igus Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA21	MAT9060003	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA31	MAT9060004	4 x 14	1 x 17	.53 (13.5)	7.5 x d
6FX8002-5DA41	MAT9060005	4 x 12	1 x 17	.61 (15.5)	7.5 x d
6FX8002-5DA51	MAT9060006	4 x 10	1 x 17	.69 (17.5)	7.5 x d
6FX8002-5DA61	MAT9060007	4 x 8	1 x 17	.81 (20.5)	7.5 x d



Part No.	Part No.	#Pair x AWG	#Pair x AWG	in. (mm)	Radius
6FX8002-5DA23	MAT9060008	4 x 6	1 x 17	.94 (24.0)	7.5 x d
6FX8002-5DA33	MAT9060009	4 x 4	1 x 17	1.12 (28.5)	7.5 x d
6FX8002-5DA43	MAT9060010	4 x 2	1 x 17	1.28 (32.5)	7.5 x d

Servo cable



Servo
PUR



MAT9061...

Chainflex® PUR Servo cable CF27

Harnessed according to Siemens standard servo cables

Construction

Power conductors: High flexural strength, finely stranded, bunch bare copper wires for 16-8 AWG. For those ≥ 6 AWG, copper strands are woven in groups and then braided together.

Signal pair conductors: High flexural strength, finely stranded, bunch bare copper wires.

Power conductor insulation: TPE, thin-walled version.

Signal pair insulation: Polyester, thin-walled version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Power conductor color: Black with white numbers, one conductor green-yellow.

Signal pair color: Black with white numbers.

Signal pair shield: High flexural strength copper shield, coverage approx. 90% optical, aluminum/polyester film.

Intermediate jacket: TPE-based blend, adapted to the requirements of the Energy Chain®.

Total shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket Low-adhesion PUR blend, adapted to the requirements of the Energy Chain®. Color: orange (RAL 2003).

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter.

Permissible temperature range for continuous flexing: -4°F to +176°F (-20°C to +80°C)

Voltage 1000V

Regulations: cRUus, DESINA, CE

EXTENSION CABLE

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA05	MAT9061001	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA15	MAT9061002	4 x 14	1 x 17	.53 (13.5)	7.5 x d



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA28	MAT9061003	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA38	MAT9061004	4 x 14	1 x 17	.53 (13.5)	7.5 x d
6FX8002-5DA48	MAT9061005	4 x 12	1 x 17	.61 (15.5)	7.5 x d
6FX8002-5DA58	MAT9061006	4 x 10	1 x 17	.69 (17.5)	7.5 x d
6FX8002-5DA68	MAT9061007	4 x 8	1 x 17	.81 (20.5)	7.5 x d



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DX28	MAT9061008	4 x 6	1 x 17	.94 (24.0)	7.5 x d
6FX8002-5DX38	MAT9061009	4 x 4	1 x 17	1.12 (28.5)	7.5 x d
6FX8002-5DX48	MAT9061010	4 x 2	1 x 17	1.28 (32.5)	7.5 x d

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

Servo cable



Chainflex® PVC-Servo cable, oil-resistant CF21 Harnessed according to Siemens standard servo cables

Construction

Power conductor: High flexural strength, finely stranded, bunch bare copper wires for cross-sections up to 16-8 AWG. For those ≥ 6 AWG, copper strands are rope construction.

Signal pair conductors: High flexural strength, finely stranded, bunch bare copper wires.

Power conductor insulation: Mechanically tough PVC blend

Signal pair insulation: TPE, thin-walled version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Power conductor color: Black with white numbers, one conductor green-yellow.

Signal pair color: Black with white numbers.

Signal pair shield: High flexural strength copper shield, coverage approx. 90% optical, aluminum/polyester film.

Intermediate jacket: PVC-based blend, adapted to the requirements of the Energy Chain®.

Outer shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil-resistant. Color: green (RAL 6005).

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

Voltage: 1000V

Regulations: cRUus, CE

BASIC - Connector with flying leads

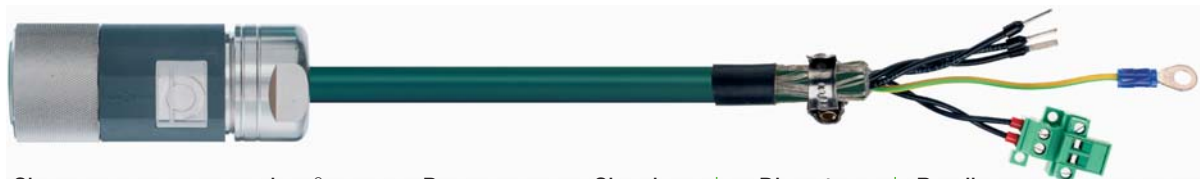
For the requirements in Energy Chains® optimized, low-adhesion, oil-resistant PVC mixture.



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA01	MAT9160001	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA11	MAT9160002	4 x 14	1 x 17	.53 (13.5)	7.5 x d



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA21	MAT9160003	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA31	MAT9160004	4 x 14	1 x 17	.53 (13.5)	7.5 x d
6FX8002-5DA41	MAT9160005	4 x 12	1 x 17	.61 (15.5)	7.5 x d
6FX8002-5DA51	MAT9160006	4 x 10	1 x 17	.69 (17.5)	7.5 x d
6FX8002-5DA61	MAT9160007	4 x 8	1 x 17	.81 (20.5)	7.5 x d



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA23	MAT9160008	4 x 6	1 x 17	.95 (24.0)	7.5 x d
6FX8002-5DA33	MAT9160009	4 x 4	1 x 16	1.12 (28.5)	7.5 x d
6FX8002-5DA43	MAT9160010	4 x 2	1 x 16	1.28 (32.5)	7.5 x d

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Servo cable



Servo
PVC



MAT9161...

Chainflex® PVC-Servo cable, oil-resistant CF21 Harnessed according to Siemens standard servo cables

Construction

Power conductor: High flexural strength, finely stranded, bunch bare copper wires for cross-sections up to 16-8 AWG. For those ≥ 6 AWG, copper strands are rope construction.

Signal pair conductors: High flexural strength, finely stranded, bunch bare copper wires.

Power conductor insulation: Mechanically tough PVC blend

Signal pair insulation: TPE, thin-walled version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Power conductor color: Black with white numbers, one conductor green-yellow.

Signal pair color: Black with white numbers.

Signal pair shield: High flexural strength copper shield, coverage approx. 0% optical, aluminum/polyester film.

Intermediate jacket: PVC-based blend, adapted to the requirements of the Energy Chain®.

Outer shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil-resistant. Color: green (RAL 6005).

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

Voltage: 1000V

Regulations: cRUus, CE

EXTENSION CABLE

For the requirements in Energy Chains® optimized, low-adhesion, oil-resistant PVC mixture.



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA05	MAT9161001	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA15	MAT9161002	4 x 14	1 x 17	.53 (13.5)	7.5 x d



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DA28	MAT9161003	4 x 16	1 x 17	.49 (12.5)	7.5 x d
6FX8002-5DA38	MAT9161004	4 x 14	1 x 17	.53 (13.5)	7.5 x d
6FX8002-5DA48	MAT9161005	4 x 12	1 x 17	.61 (15.5)	7.5 x d
6FX8002-5DA58	MAT9161006	4 x 10	1 x 17	.71 (18.0)	7.5 x d
6FX8002-5DA68	MAT9161007	4 x 8	1 x 17	.87 (22.0)	7.5 x d



Siemens Part No.	igus® Part No.	Power #Pair x AWG	Signal #Pair x AWG	Diameter in. (mm)	Bending Radius
6FX8002-5DX28	MAT9161008	4 x 6	1 x 17	.96 (24.5)	7.5 x d
6FX8002-5DX38	MAT9161009	4 x 4	1 x 16	1.16 (29.5)	7.5 x d
6FX8002-5DX48	MAT9161010	4 x 2	1 x 16	1.30 (33.0)	7.5 x d

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

Motor cable



Chainflex® TPE Power cable CF35

Harnessed according to Siemens standard power cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: TPE, thin-wall version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Conductor colors: Black with white numbers, one green-yellow.

Shield: High flexural strength copper shield, coverage approx. 90% optical

Outer jacket: TPE particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Color: black

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: -31°F to +194°F (-35°C to +90°C)

Voltage: 1000V

Regulations: cRUus, CE

BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion TPE mixture.



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA01	MAT9050001	4x16	.39 (9.9)	7.5 x d
6FX8002-5CA11	MAT9050002	4x14	.45 (11.4)	7.5 x d



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA21	MAT9050003	4x16	.39 (9.9)	7.5 x d
6FX8002-5CA31	MAT9050004	4x14	.45 (11.4)	7.5 x d
6FX8002-5CA41	MAT9050005	4x12	.51 (13.0)	7.5 x d
6FX8002-5CA51	MAT9050006	4x10	.59 (15.0)	7.5 x d
6FX8002-5CA61	MAT9050007	4x8	.79 (20.1)	7.5 x d

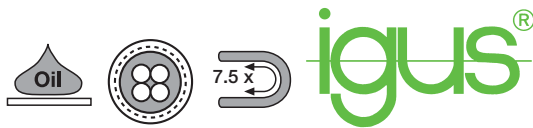


Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA23	MAT9050008	4x6	.87 (22.0)	7.5 x d

Additional types upon inquiry.

Note: The mentioned external diameters are maximum values.

Motor cable



Motor
TPE

CE

cRUUS

MAT9051 ...

Chainflex® TPE Power cable CF35

Harnessed according to Siemens standard power cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: TPE, thin-wall version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Conductor colors: Black with white numbers, one green-yellow.

Shield: High flexural strength copper shield, coverage approx. 90% optical

Outer jacket: TPE particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Color: black

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: -31°F to +194°F (-35°C to +90°C)

Voltage: 1000V

Regulations: cRUus, CE

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

EXTENSION CABLE

For the requirements in Energy Chains® optimized, low-adhesion TPE mixture.



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter		Bending Radius
			in.	(mm)	
6FX8002-5CA05	MAT9051001	4x16	.39	(9.9)	7.5 x d
6FX8002-5CA15	MAT9051002	4x14	.45	(11.4)	7.5 x d



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter		Bending Radius
			in.	(mm)	
6FX8002-5CA25	MAT9051003	4x16	.39	(9.9)	7.5 x d
6FX8002-5CA35	MAT9051004	4x14	.45	(11.4)	7.5 x d
6FX8002-5CA45	MAT9051005	4x12	.51	(13.0)	7.5 x d
6FX8002-5CA55	MAT9051006	4x10	.59	(15.0)	7.5 x d
6FX8002-5CA65	MAT9051007	4x8	.79	(20.1)	7.5 x d

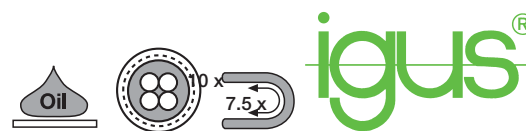


Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter		Bending Radius
			in.	(mm)	
6FX8002-5CX28	MAT9051008	4x6	.87	(22.0)	7.5 x d

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

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Motor cable



Chainflex® PVC-Motor cable, oil-resistant CF31 Harnessed according to Siemens standard power cables

Construction

Power conductor: High flexural strength, finely stranded, bundled bare copper wires for 16-8 AWG. For those ≥ 6 AWG, copper strands are woven in groups and then braided together

Conductor insulation: TPE

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Conductor colors: Black with white numbers, one conductor green-yellow.

Intermediate jacket: PVC-based blend, adapted to the requirements of the Energy Chain®.

Total shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil-resistant Color: black

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

Voltage: 1000V

Regulations: cRUus, CE

BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion, oil-resistant PVC mixture.



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA01	MAT9150001	4x16	.49 (12.5)	7.5 x d
6FX8002-5CA11	MAT9150002	4x14	.59 (15.0)	7.5 x d



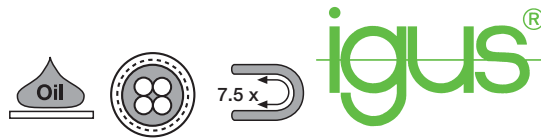
Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA21	MAT9150003	4x16	.49 (12.5)	7.5 x d
6FX8002-5CA31	MAT9150004	4x14	.59 (15.0)	7.5 x d
6FX8002-5CA41	MAT9150005	4x12	.63 (16.0)	7.5 x d
6FX8002-5CA51	MAT9150006	4x10	.75 (19.0)	7.5 x d
6FX8002-5CA61	MAT9150007	4x8	.94 (24.0)	7.5 x d



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA23	MAT9150008	4x6	1.06 (27.0)	7.5 x d

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/qs/chainflex.asp>

Motor cable



Motor
PVC



MAT9151...

Chainflex® PVC-Motor cable, oil-resistant CF31

Harnessed according to Siemens standard power cables

Construction

Power conductor: High flexural strength, finely stranded, bundled bare copper wires for 16-8 AWG. For those ≥ 6 AWG, copper strands are woven in groups and then braided together

Conductor insulation: TPE

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Conductor colors: Black with white numbers, one conductor green-yellow.

Intermediate jacket: PVC-based blend, adapted to the requirements of the Energy Chain®.

Total shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil-resistant. Color: black

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

Voltage: 1000V

Regulations: cRUus, CE

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

EXTENSION CABLE

For the requirements in Energy Chains® optimized, low-adhesion, oil-resistant PVC mixture.



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA05	MAT9151001	4x16	.49 (12.5)	7.5 x d
6FX8002-5CA15	MAT9151002	4x14	.59 (15.0)	7.5 x d



Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CA28	MAT9151003	4x16	.49 (12.5)	7.5 x d
6FX8002-5CA38	MAT9151004	4x14	.59 (15.0)	7.5 x d
6FX8002-5CA48	MAT9151005	4x12	.63 (16.0)	7.5 x d
6FX8002-5CA58	MAT9151006	4x10	.75 (19.0)	7.5 x d
6FX8002-5CA68	MAT9151007	4x8	.94 (24.0)	7.5 x d

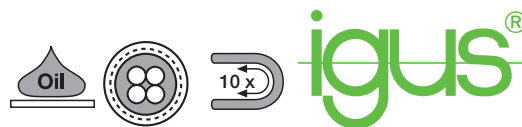


Siemens Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
6FX8002-5CX23	MAT9151008	4x6	1.06 (27.0)	7.5 x d

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

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Position feedback cable



Chainflex® TPE position feedback cable, oil-resistant CF11-D Harnessed according to Siemens standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: thin wall polyester

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code in accordance with DIN 47100

Intermediate jacket: TPE blend, adapted to the requirements in the Energy Chain®.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: TPE: particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Color: green (RAL 6018).

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: -31°F to +212°F (-35°C to +100°C)

Voltage: 30V

Regulations: CE, DESINA

BASIC - Motor & drive end connectors

						
Siemens Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius	
			in.	(mm)		
6FX8002-2AD00	MAT9070001	CF11-001-D	.41	(10.5)	10 x d	
6FX8002-2CA11	MAT9070002	CF11-011-D	.37	(9.5)	10 x d	
6FX8002-2CA15	MAT9070003	CF11-001-D	.41	(10.5)	10 x d	
						
6FX8002-2CA31	MAT9070004	CF11-006-D	.45	(11.5)	10 x d	
						
6FX8002-2CA51	MAT9070005	CF11-001-D	.41	(10.5)	10 x d	
6FX8002-2CA71	MAT9070006	CF11-011-D	.37	(9.5)	10 x d	
						
6FX8002-2CB31	MAT9070007	CF10-02-12	.35	(9.0)	10 x d	
						
6FX8002-2CB51	MAT9070008	CF11-011-D	.37	(9.5)	10 x d	
6FX8002-2CC11	MAT9070009	CF11-011-D	.37	(9.5)	10 x d	
6FX8002-2CD01	MAT9070010	CF11-011-D	.37	(9.5)	10 x d	

Position feedback cable



Signal
TPE



MAT9070...

Chainflex® TPE position feedback cable, oil-resistant CF11-D Harnessed according to Siemens standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: thin wall polyester

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code in accordance with DIN 47100

Intermediate jacket: TPE blend, adapted to the requirements in the Energy Chain®.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: TPE: particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Color: green (RAL 6018).

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

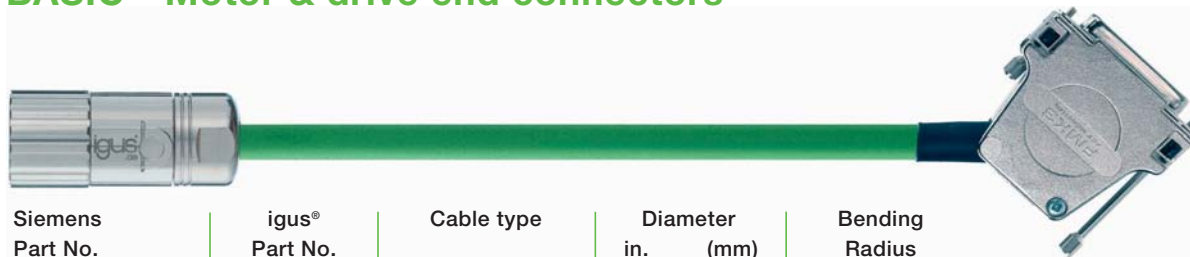
Permissible temperature range for continuous flexing: -31°F to +212°F (-35°C to +100°C)

Voltage: 30V

Regulations: CE, DESINA

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

BASIC - Motor & drive end connectors



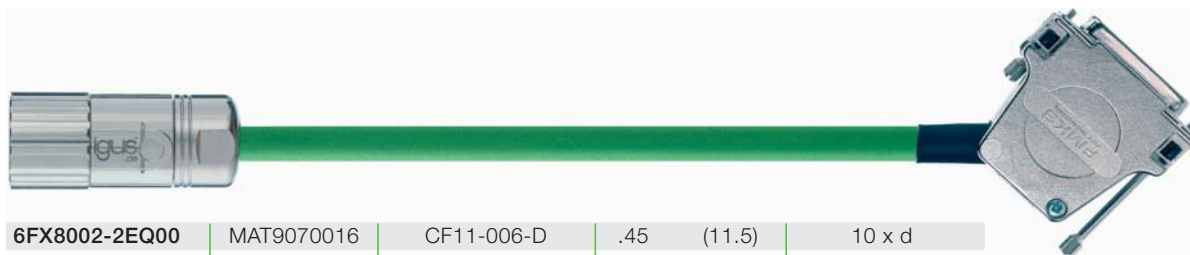
Siemens Part No.	igus® Part No.	Cable type	Diameter in.	(mm)	Bending Radius
6FX8002-2CF02	MAT9070011	CF11-001-D	.41	(10.5)	10 x d
6FX8002-2CG00	MAT9070012	CF11-011-D	.37	(9.5)	10 x d
6FX8002-2CH00	MAT9070013	CF11-001-D	.41	(10.5)	10 x d



6FX8002-2CK00	MAT9070014	CF11-002-D	.41	(10.5)	10 x d
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6FX8002-2CL00	MAT9070015	CF11-002-D	.41	(10.5)	10 x d
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6FX8002-2EQ00	MAT9070016	CF11-006-D	.45	(11.5)	10 x d
6FX8002-2EQ10	MAT9070017	CF11-006-D	.45	(11.5)	10 x d

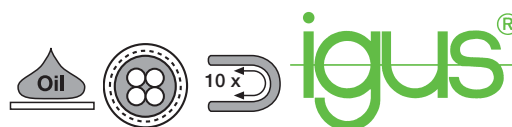


6FX8002-2EQ10	MAT9070018	CF11-011-D	.37	(9.5)	10 x d
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PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/RFQ: www.igus.com/chainflex.asp
RoHS info: www.igus.com/RoHS.asp

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Position feedback cable



Chainflex® TPE position feedback cable, oil-resistant CF11-D

Harnessed according to Siemens standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: thin wall polyester

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code in accordance with DIN 47100

Intermediate jacket: TPE blend, adapted to the requirements in the Energy Chain®.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: TPE: particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Color: green (RAL 6018).

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: -31°F to +212°F (-35°C to +100°C)

Voltage: 30V

Regulations: CE, DESINA

EXTENSION CABLE

Siemens Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
			in.	(mm)	
6FX8002-2AD04	MAT9071001	CF11-001-D	.41	(10.5)	10 x d
6FX8002-2CB54	MAT9071002	CF11-011-D	.37	(9.5)	10 x d
6FX8002-2CA54	MAT9071003	CF11-001-D	.41	(10.5)	10 x d
6FX8002-2CA34	MAT9071004	CF11-006-D	.45	(11.5)	10 x d
6FX8002-2CB34	MAT9071007	CF10-02-12	.35	(9.0)	10 x d
6FX8002-2CC14	MAT9071009	CF11-011-D	.37	(9.5)	10 x d
6FX8002-2CF04	MAT9071011	CF11-001-D	.41	(10.5)	10 x d
6FX8002-2EQ14	MAT9071017	CF11-006-D	.45	(11.5)	10 x d
6FX8002-2AH04	MAT9071018	CF11-011-D	.37	(9.5)	10 x d

Position feedback cable



Signal
PVC



MAT9170...

Chainflex® PVC-position feedback cable CF211

Harnessed according to Siemens standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code DIN 47100

Intermediate jacket: Polymer foil over outer conductor layer.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®, oil-resistant. Color: grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

Voltage: 30V

Regulations: cRUUS, CE

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

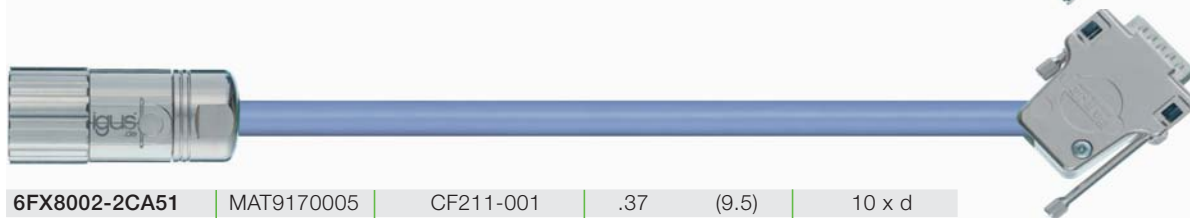
BASIC - Motor & drive end connectors



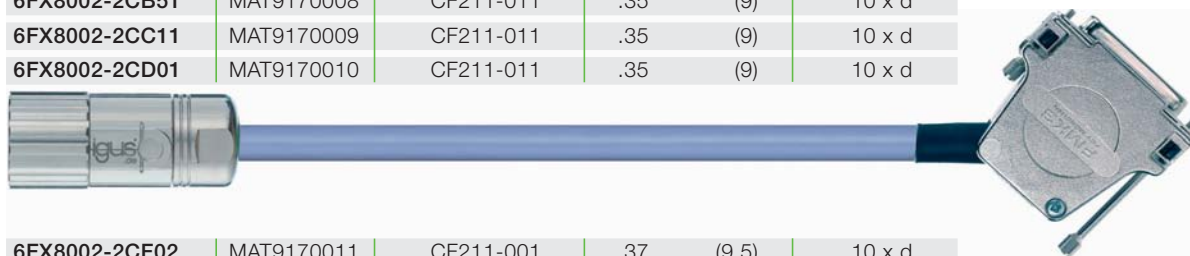
Siemens Part No.	igus® Part No.	Cable Type	Diameter in.	Diameter (mm)	Bending Radius
6FX8002-2AD00	MAT9170001	CF211-001	.37	(9.5)	10 x d
6FX8002-2CA11	MAT9170002	CF211-011	.35	(9)	10 x d
6FX8002-2CA15	MAT9170003	CF211-001	.37	(9.5)	10 x d



6FX8002-2CA31	MAT9170004	CF211-006	.37	(9.5)	10 x d
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6FX8002-2CA51	MAT9170005	CF211-001	.37	(9.5)	10 x d
6FX8002-2CA71	MAT9170006	CF211-011	.35	(9)	10 x d
6FX8002-2CB51	MAT9170008	CF211-011	.35	(9)	10 x d
6FX8002-2CC11	MAT9170009	CF211-011	.35	(9)	10 x d
6FX8002-2CD01	MAT9170010	CF211-011	.35	(9)	10 x d

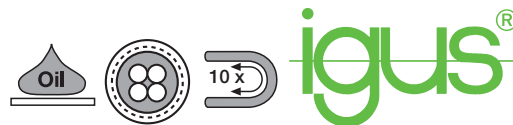


6FX8002-2CF02	MAT9170011	CF211-001	.37	(9.5)	10 x d
6FX8002-2CG00	MAT9170012	CF211-011	.35	(9)	10 x d

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

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Position feedback cable



Chainflex® PVC-position feedback CF211

Harnessed according to Siemens standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code DIN 47100

Intermediate jacket: Polymer foil over outer conductor layer.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®, oil-resistant. Color: grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

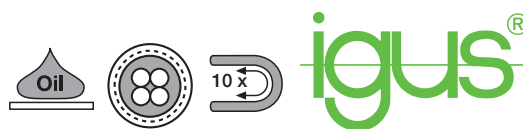
UL voltage: 30V

Regulations: cRUUs, CE

BASIC - Motor & drive end connectors

Siemens Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
6FX8002-2CH00	MAT9170013	CF211-001	.37	(9.5)	10 x d
6FX8002-2CK00	MAT9170014	CF211-002	.35	(9)	10 x d
6FX8002-2CL00	MAT9170015	CF211-002	.35	(9)	10 x d
6FX8002-2EQ00	MAT9170016	CF211-006	.37	(9.5)	10 x d
6FX8002-2EQ10	MAT9170017	CF211-006	.37	(9.5)	10 x d
6FX8002-2AH00	MAT9170018	CF211-011	.35	(9)	10 x d

Position feedback cable



Signal
PVC



MAT9171...

Chainflex® PVC-position feedback CF211

Harnessed according to Siemens standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code DIN 47100

Intermediate jacket: Polymer foil over outer conductor layer.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®, oil-resistant. Color: grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

UL voltage: 30V

Regulations: cRUUS, CE

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

EXTENSION CABLE



Siemens Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
			in.	(mm)	
6FX8002-2AD04	MAT9171001	CF211-001	.37	(9.5)	10 x d
6FX8002-2CB54	MAT9171002	CF211-011	.35	(9.0)	10 x d
6FX8002-2CA54	MAT9171003	CF211-001	.37	(9.5)	10 x d
6FX8002-2CA34	MAT9171004	CF211-001	.37	(9.5)	10 x d
6FX8002-2CC14	MAT9171009	CF211-011	.35	(9.0)	10 x d
6FX8002-2CF04	MAT9171011	CF211-001	.37	(9.5)	10 x d
6FX8002-2EQ14	MAT9171017	CF211-006	.37	(9.5)	10 x d
6FX8002-2AH04	MAT9171018	CF211-011	.35	(9.0)	10 x d

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

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Servo cable



Chainflex® PUR Servo cable CF27

Harnessed according to Indramat standard servo cables

Construction

Power conductors: High flexural strength, finely stranded, bunch bare copper wires for 16-8 AWG. For those ≥ 6 AWG, copper strands are woven in groups and then braided together.

Signal pair conductors: High flexural strength, finely stranded, bunch bare copper wires.

Power conductor insulation: TPE, thin-walled version.

Signal pair insulation: Polyester, thin-walled version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Power conductor color: Black with white numbers, one conductor green-yellow.

Signal pair color: Black with white numbers.

Signal pair shield: High flexural strength copper shield, coverage approx. 90% optical, aluminum/polyester film.

Intermediate jacket: TPE-based blend, adapted to the requirements of the Energy Chain®.

Total shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket Low-adhesion PUR blend, adapted to the requirements of the Energy Chain®. Color: orange (RAL 2003).

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: -4°F to +176°F (-20°C to +80°C)

Voltage 1000V

Regulations: cRUUs, CE, DESINA



*Image is for example only.

BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.

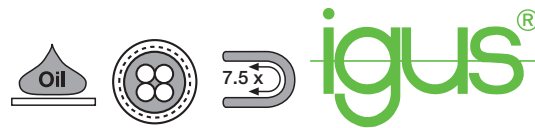
Indramat Part No.	igus® Part No.	No. of Power Conductors & AWG	No. of Shielded Pairs & AWG	Diameter		Bending radius
				in.	(mm)	
IKG4009	MAT9090001	4 x 17	2pr 18	.53	(13.5)	7.5 x d
IKG4017	MAT9090002	4 x 17	2pr 18	.53	(13.5)	7.5 x d
IKG4018	MAT9090003	4 x 17	2pr 18	.53	(13.5)	7.5 x d
IKG4020	MAT9090004	4 x 17	2pr 18	.53	(13.5)	7.5 x d
IKG4055	MAT9090005	4 x 16	2pr 18	.57	(14.5)	7.5 x d
IKG4060	MAT9090006	4 x 16	2pr 18	.57	(14.5)	7.5 x d
IKG4067	MAT9090007	4 x 14	2pr 16	.63	(16.0)	7.5 x d
IKG4070	MAT9090008	4 x 14	2pr 16	.63	(16.0)	7.5 x d
IKG4087	MAT9090009	4 x 12	2pr 16	.71	(18.0)	7.5 x d
IKG4090	MAT9090010	4 x 12	2pr 16	.71	(18.0)	7.5 x d
IKG4107	MAT9090011	4 x 10	2pr 16	.77	(19.5)	7.5 x d
IKG4150	MAT9090012	4 x 10	2pr 16	.77	(19.5)	7.5 x d
IKG4167	MAT9090013	4 x 8	2pr 16	.93	(23.5)	7.5 x d
IKG0331	MAT9090014	4 x 18	1pr 20	.45	(11.5)	7.5 x d
IKG0332	MAT9090015	4 x 18	1pr 20	.45	(11.5)	7.5 x d

CONNECTION CABLE WITH ADAPTER PLUG

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.

Indramat Part No.	igus® Part No.	No. of Power Conductors & AWG	No. of Shielded Pairs & AWG	Diameter		Bending radius
				in.	(mm)	
IKG4006	MAT9091001	4 x 17	1pr 18	.53	(13.5)	7.5 x d
IKG4016	MAT9091002	4 x 17	1pr 18	.53	(13.5)	7.5 x d

Servo cable



Servo
PVC



MAT9190...
MAT9190...

Chainflex® PVC Servo cable CF21

Harnessed according to Indramat standard servo cables

Construction

Power conductor: High flexural strength, finely stranded, bunch bare copper wires for cross-sections up to 16-8 AWG. For those ≥ 6 AWG, copper strands are rope construction.

Signal pair conductors: High flexural strength, finely stranded, bunch bare copper wires.

Power conductor insulation: Mechanically tough PVC blend

Signal pair insulation: TPE, thin-walled version

Conductor twisting: Conductors in short pitch stranded over a high-tensile-strength conductor.

Power conductor color: Black with white numbers, one conductor green-yellow.

Signal pair color: Black with white numbers.

Signal pair shield: High flexural strength copper shield, coverage approx. 90% optical, aluminum/polyester film.

Intermediate jacket: PVC-based blend, adapted to the requirements of the Energy Chain®.

Outer shielding: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil-resistant. Color: green (RAL 6005).

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

Voltage: 1000V

Regulations: cRUUS, CE, DESINA



BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion PVC mixture.

*Image is for example only.

Indramat Part No.	igus® Part No.	No. of Power Conductors & AWG	No. of Shielded Pairs & AWG	Diameter in. (mm)	Bending radius
IKG4009	MAT9190001	4 x 17	2pr 18	.57 (14.5)	7.5 x d
IKG4017	MAT9190002	4 x 17	2pr 18	.57 (14.5)	7.5 x d
IKG4018	MAT9190003	4 x 17	2pr 18	.57 (14.5)	7.5 x d
IKG4020	MAT9190004	4 x 17	2pr 18	.57 (14.5)	7.5 x d
IKG4055	MAT9190005	4 x 16	2pr 18	.57 (14.5)	7.5 x d
IKG4060	MAT9190006	4 x 16	2pr 18	.57 (14.5)	7.5 x d
IKG4067	MAT9190007	4 x 14	2pr 16	.65 (16.5)	7.5 x d
IKG4070	MAT9190008	4 x 14	2pr 16	.65 (16.5)	7.5 x d
IKG4087	MAT9190009	4 x 12	2pr 16	.73 (18.5)	7.5 x d
IKG4090	MAT9190010	4 x 12	2pr 16	.73 (18.5)	7.5 x d
IKG4107	MAT9190011	4 x 10	2pr 16	.81 (20.5)	7.5 x d
IKG4150	MAT9190012	4 x 10	2pr 16	.81 (20.5)	7.5 x d
IKG4167	MAT9190013	4 x 8	2pr 16	.94 (24.0)	7.5 x d
IKG0331	MAT9190014	4 x 18	1pr 20	.43 (11.0)	7.5 x d
IKG0332	MAT9190015	4 x 18	1pr 20	.43 (11.0)	7.5 x d

CONNECTION CABLE WITH ADAPTER PLUG

For the requirements in Energy Chains® optimized, low-adhesion PVC mixture.

Indramat Part No.	igus® Part No.	No. of Power Conductors & AWG	No. of Shielded Pairs & AWG	Diameter in. (mm)	Bending radius
IKG4006	MAT9191001	4 x 17	1pr 18	.57 (14.5)	7.5 x d
IKG4016	MAT9191002	4 x 17	1pr 18	.57 (14.5)	7.5 x d

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

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Position feedback cable



Chainflex® TPE position feedback cable CF11-D

Harnessed according to Indramat standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: thin wall polyester

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code in accordance with DIN 47100

Intermediate jacket: TPE blend, adapted to the requirements in the Energy Chain®.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: TPE: particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Color: green (RAL 6018).

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: -31°F to +212°F (-35°C to +100°C)

Voltage: 30V

Regulations: CE, DESINA



BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion TPE mixture.

*Image is for example only.

Indramat Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
			in.	(mm)	
IKS4103	MAT9100001	CF11-009-D	.37	(9.5)	10 x d
IKS4374	MAT9100002	CF11-009-D	.37	(9.5)	10 x d
IKS4375	MAT9100003	CF11-009-D	.37	(9.5)	10 x d
IKS4314	MAT9100004	CF11-009-D	.37	(9.5)	10 x d
IKS4384	MAT9100005	CF11-019-D	.35	(9.0)	10 x d
IKS4020	MAT9100006	CF11-017-D	.35	(9.0)	10 x d
IKS4142	MAT9100007	CF11-017-D	.35	(9.0)	10 x d
IKS0230	MAT9100008	CF11-018-D	.28	(7.0)	10 x d
IKS0232	MAT9100009	CF11-018-D	.28	(7.0)	10 x d

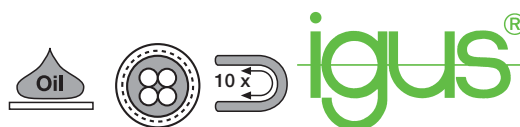


CONNECTION CABLE WITH ADAPTER PLUG

For the requirements in Energy Chains® optimized, low-adhesion TPE mixture.

Indramat Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
			in.	(mm)	
IKS4065	MAT9101001	CF11-009-D	.37	(9.5)	10 x d
IKS4151	MAT9101002	CF11-009-D	.37	(9.5)	10 x d
IKS4153	MAT9101003	CF11-009-D	.37	(9.5)	10 x d
IKS4376	MAT9101004	CF11-009-D	.37	(9.5)	10 x d
IKS4322	MAT9101005	CF11-009-D	.35	(9.0)	10 x d

Position feedback cable



Signal
PVC



MAT9110...
MAT9111...

Chainflex® PVC position feedback cable, oil-resistant CF211

Harnessed according to Indramat standard feedback cables

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code DIN 47100

Intermediate jacket: Polymer foil over outer conductor layer.

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®, oil-resistant. Color: grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

UL voltage: 30V

Regulations: cRUus, CE

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.



BASIC - Connector with flying leads

For the requirements in Energy Chains® optimized, low-adhesion PVC mixture.

Indramat Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
			in.	(mm)	
IKS4103	MAT9110001	CF211-009	.37	(9.5)	10 x d
IKS4374	MAT9110002	CF211-009	.37	(9.5)	10 x d
IKS4375	MAT9110003	CF211-009	.37	(9.5)	10 x d
IKS4314	MAT9110004	CF211-009	.37	(9.5)	10 x d
IKS4384	MAT9110005	CF211-019	.35	(9.0)	10 x d
IKS4020	MAT9110006	CF211-017	.35	(9.0)	10 x d
IKS4142	MAT9110007	CF211-017	.35	(9.0)	10 x d
IKS0230	MAT9110008	CF211-018	.28	(7.0)	10 x d
IKS0232	MAT9110009	CF211-018	.28	(7.0)	10 x d

*Image is for example only.



CONNECTION CABLE WITH ADAPTER PLUG

For the requirements in Energy Chains® optimized, low-adhesion PVC mixture.

Indramat Part No.	igus® Part No.	Cable Type	Diameter		Bending Radius
			in.	(mm)	
IKS4065	MAT9111001	CF211-009	.35	(9.0)	10 x d
IKS4151	MAT9111002	CF211-009	.35	(9.0)	10 x d
IKS4153	MAT9111003	CF211-009	.35	(9.0)	10 x d
IKS4376	MAT9111004	CF211-009	.35	(9.0)	10 x d
IKS4322	MAT9111005	CF211-009	.35	(9.0)	10 x d

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

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Servo cable



Chainflex® PUR Servo cable CF27

Harnessed according to Fanuc standard servo cables

Technical Information

- Oil- and coolant-resistant
- Shielded
- Cut-proof, notch-tough, hydrolysis-resistant and microbe resistant
- PUR jacket
- **Signal Pairs:** pair shielding of extremely readily bending/film copper shield, coverage approx. 90% optical, and metal foil
- **Total Shield:** extremely readily bending/solid copper shield, coverage approx. 90% optical
- **Temperature range (flexing):** 4°F to +176°F (-20°C to +80°C)
- **Voltage:** 1000V
- **Minimum bending radius for use in Energy Chains®:** 7.5 x cable diameter
- **Color:** orange (similar RAL 2003)

BASIC - Motor & drive end connectors

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.



Fanuc Part No.	igus® Part No.	# of Conductors AWG	Diameter		Bending Radius
			in.	(mm)	
LX660-8077-T261	MAT9210061	4 x 16	.41	(10.5)	7.5 x d



LX660-8077-T264	MAT9210064	4 x 14	.47	(12.0)	7.5 x d
LX660-8077-T266	MAT9210066	4 x 14	.47	(12.0)	7.5 x d



LX660-8077-T265	MAT9210065	4 x 14	.47	(12.0)	7.5 x d
LX660-8077-T267	MAT9210067	4 x 14	.47	(12.0)	7.5 x d



LX660-8077-T270*	MAT9210070	4 x 12	.61	(15.5)	7.5 x d
LX660-8077-T272	MAT9210072	4 x 8	.81	(20.5)	7.5 x d

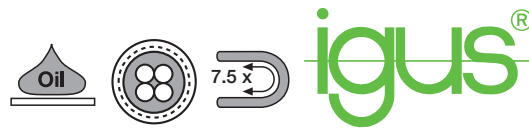


LX660-8077-T271*	MAT9210071	4 x 12	.61	(15.5)	7.5 x d
LX660-8077-T273	MAT9210073	4 x 8	.81	(20.5)	7.5 x d

*Delivery time upon request.

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/qs/chainflex.asp>

Servo cable



Servo
PUR



MAT9210...

Chainflex® PUR Servo cable CF27

Harnessed according to Fanuc standard servo cables

Technical Information

- Oil- and coolant-resistant
- Shielded
- Cut-proof, notch-tough, hydrolysis-resistant and microbe resistant
- PUR jacket
- **Signal Pairs:** pair shielding of extremely readily bending/film copper shield, coverage approx. 90% optical, and metal foil
- **Total Shield:** extremely readily bending/solid copper shield, coverage approx. 90% optical
- **Temperature range (flexing):** 4°F to +176°F (-20°C to +80°C)
- **Voltage:** 1000V
- **Minimum bending radius for use in Energy Chains®:** 7.5 x cable diameter
- **Color:** orange (similar RAL 2003)

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

EXTENSION CABLE

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.



Fanuc Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
LX660-8077-T291	MAT9210091	4 x 14	.47 (12.0)	7.5 x d
LX660-8077-T293*	MAT9210093	4 x 12	.61 (15.5)	7.5 x d



LX660-8077-T292*	MAT9210092	4 x 12	.61 (15.5)	7.5 x d
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*Delivery time upon request.

BASIC - Motor & drive end connectors



LX660-8077-T296	MAT9210096	4 x 14	.47 (12.0)	7.5 x d
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LX660-8077-T298*	MAT9210098	4 x 12	.61 (15.5)	7.5 x d
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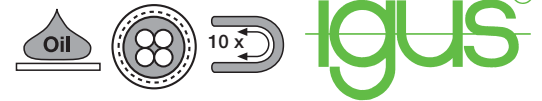


LX660-8077-T300	MAT9210300	4 x 14	.47 (12.0)	7.5 x d
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PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/RFQ: www.igus.com/chainflex.asp
RoHS info: www.igus.com/RoHS.asp

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Servo cable



Chainflex® PUR Servo cable CF260

Harnessed according to Fanuc standard servo cables

Technical Information

- Oil-resistant, halogen-free PUR jacket
- Shielded
- **Temperature range, moving:**
4°F to +176°F (-20°C to +80°C)
- **Signal Pairs:** pair shielding of extremely readily bending/firm copper shield, coverage approx. 80% optical, and metal foil
- **Voltage:** 1000V

BASIC - Motor & drive end connectors

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.



Fanuc Part No.	igus® Part No.	# of Conductors AWG	Diameter in.	Diameter (mm)	Bending Radius
LX660-8077-T261	MAT9200061	4 x 16	.33	(8.5)	10 x d



LX660-8077-T264	MAT9200064	4 x 14	.41	(10.5)	10 x d
LX660-8077-T266	MAT9200066	4 x 14	.41	(10.5)	10 x d



LX660-8077-T265	MAT9200065	4 x 14	.41	(10.5)	10 x d
LX660-8077-T267	MAT9200067	4 x 14	.41	(10.5)	10 x d



LX660-8077-T270*	MAT9200070	4 x 12	.47	(12.0)	10 x d
LX660-8077-T272	MAT9200072	4 x 8	.69	(17.5)	10 x d

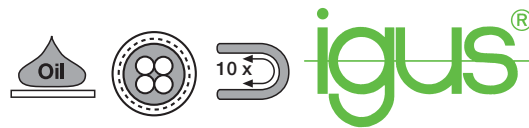


LX660-8077-T271*	MAT9200071	4 x 12	.47	(12.0)	10 x d
LX660-8077-T273	MAT9200073	4 x 8	.69	(17.5)	10 x d

*Delivery time upon request.

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/qs/chainflex.asp>

Servo cable



Servo
PUR



MAT9200...



Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Chainflex® PUR Servo cable CF260

Harnessed according to Fanuc standard servo cables

Technical Information

- Oil-resistant, halogen-free PUR jacket
- Shielded
- Temperature range, moving: 4°F to +176°F (-20°C to +80°C)
- Signal Pairs:** pair shielding of extremely readily bending/firm copper shield, coverage approx. 80% optical, and metal foil
- Voltage:** 1000V

EXTENSION CABLE

For the requirements in Energy Chains® optimized, low-adhesion PUR mixture.



Fanuc Part No.	igus® Part No.	# of Conductors AWG	Diameter in. (mm)	Bending Radius
LX660-8077-T291	MAT9200091	4 x 14	.41 (10.5)	10 x d
LX660-8077-T293*	MAT9200093	4 x 12	.47 (12.0)	10 x d



LX660-8077-T292*	MAT9200092	4 x 12	.47 (12.0)	10 x d
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*Delivery time upon request.

BASIC - Motor & drive end connectors



LX660-8077-T296	MAT9200096	4 x 14	.41 (10.5)	10 x d
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LX660-8077-T298*	MAT9200098	4 x 12	.61 (15.5)	10 x d
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LX660-8077-T300	MAT9200300	4 x 14	.47 (12.0)	10 x d
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PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/RFQ: www.igus.com/chainflex.asp
RoHS info: www.igus.com/RoHS.asp

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

10.141

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Position feedback cable



Chainflex® TPE position feedback cable, oil-resistant CF11

Harnessed according to Fanuc standard feedback cables

Technical Information

- Oil- and coolant-resistant
- Shielded
- Cut-proof, thin-walled, halogen-free, TPE jacket
- **Temperature range, moving:**
-31°F to +212°F (-35°C to +100°C)

- **Total Shield:** extremely readily bending/solid copper shield, coverage approx. 90% optical
- **Minimum bending radius for use in Energy Chains®:**
10 x cable diameter
- **Voltage:** 30V
- **Color:** green (similar RAL 6018)

For the requirements in Energy Chains® optimized, low-adhesion TPE mixture.



Fanuc Part No.	igus® Part No.	# of Conductors AWG	Diameter		Bending Radius
			in.	(mm)	
LX660-4077-T296	MAT9310296	CF11-022-D	.33	(8.5)	10 x d



LX660-4077-T297	MAT9310297	CF11-022-D	.33	(8.5)	10 x d
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LX660-4077-T302	MAT9310302	5 x 20 & 2pr x 24	.49	(12.5)	10 x d
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LX660-4077-T303	MAT9310303	5 x 20 & 2pr x 24	.49	(12.5)	10 x d
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LX660-4077-T319	MAT9310319	CF11-021-D	.49	(12.5)	10 x d
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Position feedback cable



igus®

Signal
TPE



MAT9300...



Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Chainflex® TPE position feedback cable, oil-resistant CF111

Harnessed according to Fanuc standard feedback cables

Technical Information

- Oil- and coolant-resistant
- Shielded
- Cut-proof, thin-walled, TPE jacket
- **Temperature range, moving:**
-31°F to +212°F (-35°C to +100°C)
- **Total Shield:** extremely readily bending/solid copper shield, coverage approx. 80% optical
- **Minimum bending radius for use in Energy Chains®:**
12 x cable diameter
- **Voltage:** 30V
- **Color:** green (similar RAL 6018)

For the requirements in Energy Chains® optimized, low-adhesion TPE mixture.



Fanuc Part No.	igus® Part No.	# of Conductors AWG	Diameter in.	Diameter (mm)	Bending Radius
LX660-4077-T296	MAT9300296	CF111-022-D	.30	(7.5)	12 x d



LX660-4077-T297	MAT9300297	CF111-022-D	.30	(7.5)	12 x d
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LX660-4077-T302	MAT9300302	5 x 20 & 2pr x 24	.38	(9.6)	12 x d
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LX660-4077-T303	MAT9300303	5 x 20 & 2pr x 24	.38	(9.6)	12 x d
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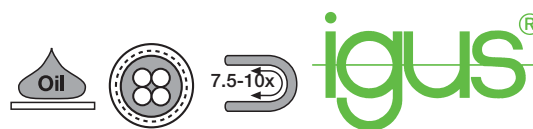


LX660-4077-T319	MAT9300319	CF111-021-D	.38	(9.6)	12 x d
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*Delivery time upon request.

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

Drive cables



Chainflex® drive cable

MP Series - Standard Harness

Compatible with Allen Bradley® Systems. For use with Energy Chains®, injection molded backshell and strain relief

Construction

Power Harness: See Chainflex® CF35

Feedback Harness: See Chainflex® CFAB-001 Specification (available upon request)

Brake Harness: See Chainflex® section CF8

Technical Data

Power Harness: See Chainflex® CF35

Feedback Harness: See Chainflex® CFAB-001 Specification (available upon request)

Brake Harness: See Chainflex® section CF8



Allen Bradley® Part No.	igus® Part No.	Cable Type	Diameter in. (mm)	Bending Radius
MP Series Power Harness				
2090-XXNPMP-16SXX	AB-PMP-16SXXX	4 X 16	.37 (9.5)	7.5 x d
2090-XXNPMP-14SXX	AB-PMP-14SXXX	4 X 14	.43 (11.0)	7.5 x d
2090-XXNPMP-10SXX	AB-PMP-10SXXX	4 X 10	.61 (15.5)	7.5 x d
2090-XXNPMP-8SXX	AB-PMP-8SXXX	4 X 8	.77 (19.5)	7.5 x d

MP Series Brake Harness

2090-XXNBMP-18SXX	AB-BMP-18XX	2 x 17	.26 (6.5)	7.5 x d
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MP Series Feedback Harness

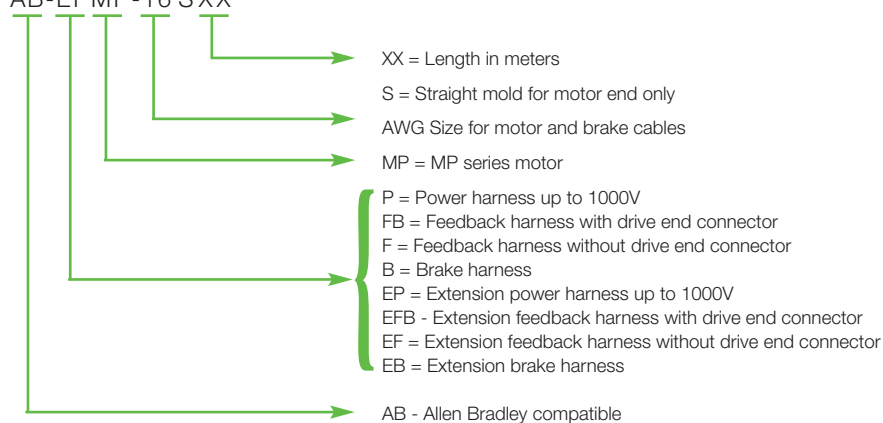
2090-XXNFBMP-SXX	AB-FBMP-SXX	CFAB-001	.48 (12.2)	10 x d
2090-XXNFMP-SXX	AB-FMP-SXX	CFAB-001	.48 (12.2)	10 x d

CFAB Feedback cable is also available in bulk

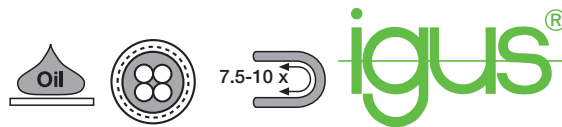
	CFAB-001	7pr x 26	.48 (12.2)	10 x d
		1 pr x 22		
		1 pr x 16		

Igus Part Number Breakdown AB-EPMP-16 SXX

Other motor series are available.
Please contact igus with requests.
Note: Allen Bradley is a registered trademark of Rockwell Automation



Drive cables



AB
Harness

Chainflex® drive cable

MP Series - Extension Harness with mounting flange male connector.
Compatible with Allen Bradley® Systems. For use with Energy Chains®, injection molded backshell and strain relief

Construction

Power Harness: See Chainflex® CF35

Feedback Harness: See Chainflex® CFAB-001 Specification (available upon request)

Brake Harness: See Chainflex® section CF8

Technical Data

Power Harness: See Chainflex® CF35

Feedback Harness: See Chainflex® CFAB-001 Specification (available upon request)

Brake Harness: See Chainflex® section CF8

Allen Bradley
Drive Cables



Allen Bradley® Part No. MP Series Power Harness	igus® Part No.	# of Conductors AWG	Diameter in. (mm)		Bending Radius
2090-XXNPMP-16SXX	AB-EPMP-16SXXX	4 X 16	.37	(9.5)	7.5 x d
2090-XXNPMP-14SXX	AB-EPMP-14SXXX	4 X 14	.43	(11.0)	7.5 x d
2090-XXNPMP-10SXX	AB-EPMP-10SXXX	4 X 10	.66	(15.5)	7.5 x d
2090-XXNPMP-8SXX	AB-EPMP-8SXXX	4 X 8	.77	(19.5)	7.5 x d

MP Series Brake Harness					
2090-XXNBMP-18SXX	AB-EBMP-18XX	2 x 18	.26	(6.5)	7.5 x d

MP Series Feedback Harness					
2090-XXNFBMP-SXX	AB-EFBMP-SXX	CFAB-001	.48	(12.2)	10 x d
2090-XXNFMP-SXX	AB-EFMP-SXX	CFAB-001	.48	(12.2)	10 x d

Other motor series are available. Please contact igus with requests.
Note: Allen Bradley is a registered trademark of Rockwell ASutomation

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

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

Fiber Optic Cables



Chainflex® CFLG-6G Fiber optic harnessed cables

Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- External jacket on the basis of TPE
- **Fiber optic cables:** diameter of fibers 62.5/125 µm and 50/125 µm
- **Minimum bending radius for use in Energy Chains®:**
15 x cable diameter
- **Temperature range (for flexing):**
-4°F to +194°F (-20°C to +90°C)
- **Color:** black



Chainflex® TPE gradient glass-fiber cable 50/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter		Bending Radius
			in.	(mm)	
ST connectors on both ends	LWL9040030	6 x 50/125	.45	(11.5)	15 x d
ST connectors on both ends incl. conversion to SC	LWL9040031	6 x 50/125	.45	(11.5)	15 x d
ST connectors on both ends incl. conversion to LC	LWL9040032	6 x 50/125	.45	(11.5)	15 x d

Chainflex® TPE gradient glass-fiber cable 62.5/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter		Bending Radius
			in.	(mm)	
ST connectors on both ends	LWL9040045	6 x 62.5/125	.45	(11.5)	15 x d
ST connectors on both ends incl. conversion to SC	LWL9040046	6 x 62.5/125	.45	(11.5)	15 x d
ST connectors on both ends incl. conversion to LC	LWL9040047	6 x 62.5/125	.45	(11.5)	15 x d

Chainflex® Fiber Optic



Chainflex® CFLG-12G Fiber optic harnessed cables

Technical Information

- Oil-resistant
- UV-resistant
- Halogen-free
- External jacket on the basis of TPE
- **Fiber optic cables:** diameter of fibers 62.5/125 µm and 50/125 µm
- **Minimum bending radius for use in Energy Chains®:**
15 x cable diameter
- **Temperature range (for flexing):**
-4°F to +194°F (-20°C to +90°C)
- **Color:** black



Chainflex® TPE gradient glass-fiber cable 50/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter in. (mm)	Bending Radius
ST connectors on both ends	LWL9040060	12 x 50/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to SC	LWL9040061	12 x 50/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to LC	LWL9040062	12 x 50/125	.45 (11.5)	15 x d

Chainflex® TPE gradient glass-fiber cable 62.5/125 µm

TPE Fiber Optic	igus® Part No.	# of Fibers	Diameter in. (mm)	Bending Radius
ST connectors on both ends	LWL9040075	12 x 62.5/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to SC	LWL9040076	12 x 62.5/125	.45 (11.5)	15 x d
ST connectors on both ends incl. conversion to LC	LWL9040077	12 x 62.5/125	.45 (11.5)	15 x d

CFLG-12G
FOC



LWL9040.....

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



Networking Cables



Chainflex® TPE harnessed Ethernet special cable CF14US

Designed for use in continuous flexing industrial and harsh environment ethernet applications

Construction

Conductors: 26 AWG finely stranded tinned copper wires

Conductor insulation: Foam polyethylene

Conductor twisting: 4 pairs twisted together

Conductor colors: Blue & white/blue, orange & white/orange, green & white/green, brown & white/brown

Inner jacket: Low-adhesion PVC

Shield: tinned copper, 90% optical coverage

Outer jacket: Low adhesion PUR blend adapted to the requirements of the Energy Chain®

Color: Violet

Technical Data

Minimum bending radius for flexible use: 12.5 x outer cable diameter

Permissible temperature range for continuous flexing: -22°F to +176°F (-30°C to +80°C)

Insertion Loss: meets EIA/TIA 568-B.2 for CAT5e stranded conductors

Differential Impedance: 100Ω

Capacitance (Conductor to Conductor): 19pF/ft

Regulations: UR AWM, CSA AWM, CE

Straight Ethernet special cable



	igus® Part No.	# of Pairs x AWG	Diameter		Bending Radius	Length
Straight			in.	(mm)		
	RI9296-2M	4 x 26	.30	(7.6)	12.5	2
	RI9296-10M	4 x 26	.30	(7.6)	12.5	10
	RI9296-15M	4 x 26	.30	(7.6)	12.5	15
	RI9296-25M	4 x 26	.30	(7.6)	12.5	25
	RI9296-30M	4 x 26	.30	(7.6)	12.5	30

Cross-Over Ethernet special cable



	igus® Part No.	# of Pairs x AWG	Diameter		Bending Radius	Length
Cross-Over			in.	(mm)		
	RI9296-N2M	4 x 26	.30	(7.6)	12.5	2
	RI9296-N10M	4 x 26	.30	(7.6)	12.5	10
	RI9296-N15M	4 x 26	.30	(7.6)	12.5	15
	RI9296-N25M	4 x 26	.30	(7.6)	12.5	25
	RI9296-N30M	4 x 26	.30	(7.6)	12.5	30

Note: Custom lengths available upon request (maximum 50 meters).

TPE Bus cable

Chainflex® CFBUS.055 FireWire

TPE outer jacket, oil-resistant, flame-retardant

For the toughest of demands in digital camera technology.



CFBUS
FIREWIRE



Construction

Conductors: Fine-wire stranded conductor bare copper wires, according to EN 60228

Conductor insulation: Mechanically high-quality PE mixture.

Core stranding: Cores stranded with an especially short pitch length.

Element shield: Extremely flexible, tinned copper shield over foil taping.

Coverage approx. 90% optical.

Core identification: Cores 0,15 mm²: orange/blue, green/red. Cores 0,34 mm²: black, white.

Outer jacket: Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in Energy Chains®. Free from silicon which can affect paint adhesion (in compliance with PV 3.10.7 – status 1992). **Color:** violet (similar to RAL 4001)

Technical Data

Minimum bending radius, moving: 12.5 x outer cable diameter

Minimum bending radius, fixed: 5 x outer cable diameter

Permissible temperature, moving: -31°F to +158°F (-35°C to +70°C)

Permissible temperature, fixed: -40°F to +158°F (-40°C to +70°C)

Nominal voltage: 30 V

Testing voltage: 500 V

Oil resistance: High

Regulations: cRUus UL AWM style for USA & Canada 21371 80°C 30V, **Flame resistance:** FT1, CE, DESINA

Typical Applications

- FireWire cable for use in Energy Chains® in industrial environments
- Transmission lengths of up to 32.8 ft. (10 m)

Part No.	Number of cores + conductor nominal cross section (mm ²)	Ext. diameter		Copper index		Weight	
		in.	(mm)	lbs/ft.	(kg/km)	lbs/ft.	(kg/km)
CFBUS-055	2 STP x 0.15 + 2 C x 0,34	.30	(7.5)	.028	(42)	.079	(118)

Male Connector with Latch

MAT9048160

Male Connector with Latch



Male Connector with Latch

MAT9048621

Female Connector without latch



Female Connector without latch

MAT9048620

Female Connector without latch



Any custom length, from stock, no cutting charges

Already, more than 6.0 million movements in 32.8 ft. (10m) cable length and approx. 3.28 ft. (1m) travel distance have been tested successfully with the CFBUS-055. See Design Section for test details.

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

PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/Samples/Size Selector/RFQ:
www.igus.com/chainflex.asp

10.149



TPE Bus cable

Chainflex® CFBUS.065 USB 2.0

For highest mechanical demand

TPE outer jacket, Oil-resistant and flame-retardant

Construction

Conductors: Fine-wire stranded conductor in especially bending-resistant version consisting of bare copper wires

Core insulation: Mechanically high-quality PE mixture.

Core stranding: Cores stranded with an especially short pitch length.

Shield: Extremely bending-resistant, tinned braided copper shield Coverage approx. 90% optical

Core identification: Cores 0.5mm²: red, black. Cores 0.08mm²: white, green

Outer jacket: Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in Energy Chains®. Free from silicon which can affect paint adhesion (in compliance with PV 3.10.7 – status 1992). **Color:** violet (similar to RAL 4001)

Technical Data

Minimum bending radius, moving: 12.5 x outer cable diameter

Minimum bending radius, fixed: 5 x outer cable diameter

Permissible temperature, moving: -31°F to +158°F (-35°C to +70°C)

Permissible temperature, fixed: -40°F to +158°F (-40°C to +70°C)

Voltage: 30 V

Testing voltage: 500 V

Oil resistance: High

UV resistance: Medium

Regulations: cRUus UL AWM style for USA & Canada 21371 80°C 30V, **Flame resistance:** FT1, CE, DESINA

Typical Applications

- USB 2.0 cable for use in Energy Chains® in industrial environments
- Transmission lengths of up to 16.4 ft. (5m)

Choose from the following plug-cable combinations:

Part No.	Number of cores + conductor nominal cross section (mm²)	Ext. diameter		Copper index		Weight	
		in.	(mm)	lbs/ft.	(kg/km)	lbs/ft.	(kg/km)
CFBUS-065	(2 x 0.5 + 1 x (2 x 0.08)) C	.20	(5)	.017	(26)	.03	(45)

USB Type A

USB9040001

open end of cable



USB Type A

USB9040010

USB Type A



USB Type B

USB9040020

open end of cable



USB Type B

USB9040030

USB Type B



USB Type A

USB9040040

USB Type B



PUR Fiber optic cable



igus[®]

FIBER
OPTIC



MAT

Chainflex[®] CFLG-2HG-MF Fiber Optic Cable

Gradient glass fiber cable for high mechanical demand, PUR outer jacket, 30 million cycles tested in Energy Chains[®], halogen-free

Construction

Fibre optic cable: 50/125 µm, 62,5/125 µm fibers in gel-filled hollow cores

Core stranding: Cores and pairs stranded with an especially short pitch length

Core identification: Cores black with white numbers

Outer jacket: Low-adhesion mixture on the basis of PUR, adapted to suit the requirements in Energy Chains[®] (according to DIN VDE 0282 Part 10). Free from silicon which can affect paint adhesion (in compliance with PV 3.10.7 – status 1992)

Color: black

Technical Data

Temperature range, moving: -4°F to +140°F (-20 °C to +60 °C)

Temperature range, fixed: -13°F to 140°F (-25 °C to +60 °C)

Minimum bending radius, moving: 12.5 x d

Minimum bending radius, fixed: 7.5 x d

UV resistance: High

Oil resistance: High

Halogen free: According to EN 50267-2-1

Typical Applications

- fiber optic industrial environments
- area with high levels of EMI
- all common bus systems

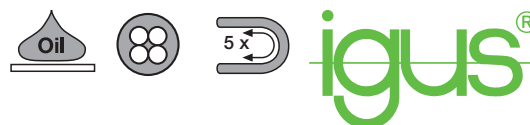
Choose your custom length or from the following cable-connector combinations from stock:

Part No.	Number of fibers	Fiber diameter [µm]	External diameter in. [mm]	Weight [kg/m]
CFLG-2HG-MF-50/125	2	50/125	.35 9	85
Connector ST	LWL90412393		Connector LC	
Connector ST	LWL90412394		Connector ST	
Connector LC	LWL90412395		Connector LC	
CFLG-2HG-MF-62.5/125	2	62.5/125	.35 9	85
Connector ST	LWL90412396		Connector LC	
Connector ST	LWL90412397		Connector ST	
Connector LC	LWL90412398		Connector LC	



PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/Samples/Size Selector/RFQ:
www.igus.com/chainflex.asp

CF-INI



Chainflex® sensor/actuator cables with 5xd for Energy Chains®

M12 connector, single end cordset

Plug-type connector
 Handle base
 Union nut/screw
 Contact base
 Contacts
 Seal

Coupling, M12 x 1
 Plastic, PP, black
 Metal, CuZn, nickel-plated
 Plastic, PP, black
 Metal, CuZn, gold-plated
 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 $\geq 10^9$ Ohm
 Contact resistance ≥ 5 m Ohm

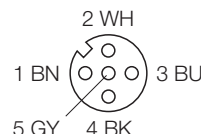
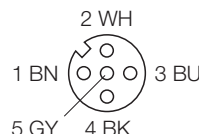
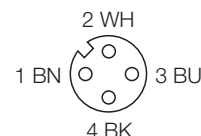
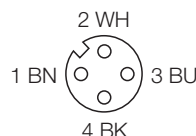
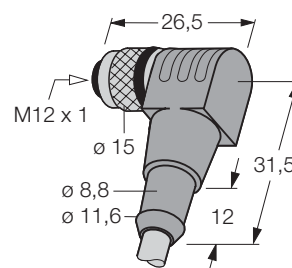
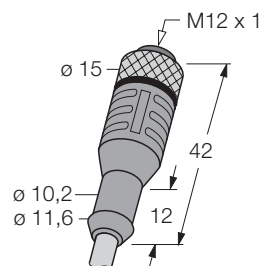
Ambient temperature of plug-type connector
 -40°F to +221°F
 (-40°C to +105 °C)

Protection class IP69K, in screwed state

Mechanical service life max. 100 insertion cycles

BG

BW



CF9-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length		Connector Type
			ft.	(m)	
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		Connector Type
			ft.	(m)	
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

M12 connector, single end cordset, LED

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts
Seal

Coupling, M12 x 1
Plastic, TPU, transparent
Metal, CuZn, nickel-plated
Plastic, PA6GF, transparent
Metal, CuZn, gold-plated
Plastic, FPM (Viton)

Number of poles
Ampacity
Rated voltage of a winding

4-pole
4 A
10...30 V

Insulation resistance
Contact resistance

$\geq 10^9$ Ohm
 ≥ 5 m Ohm

Operating voltage display
Switching state display
Switching function

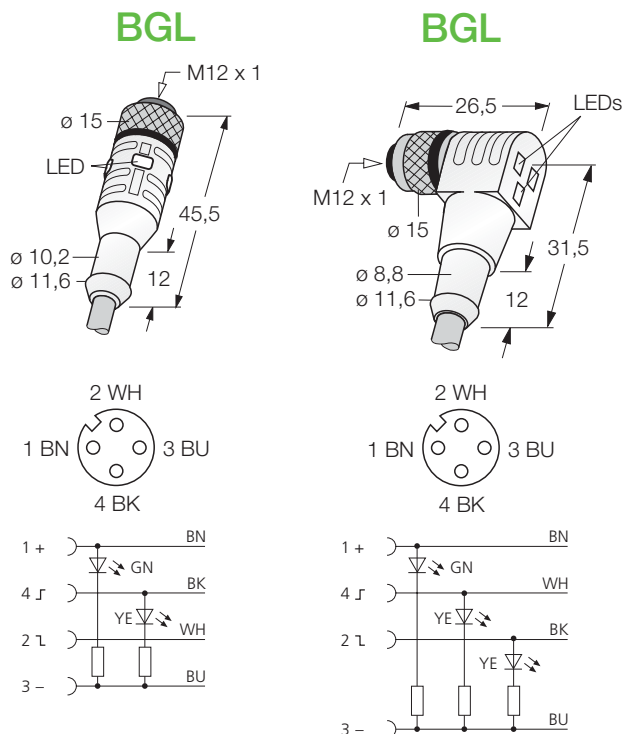
LED green
LED yellow/yellow
pnp

Ambient temperature of
plug-type connector

-40°F to +221°F
(-40°C to +105 °C)

Protection class
Mechanical service life

IP66, in screwed state
max. 100 Steckzyklen



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

CF-INI

Connection cable M12 x 1, connector on each end

Plug-type connector
 Handle base
 Union nut/screw
 Contact base
 Contacts
 Seal

Coupling, M12 x 1
 Plastic, PP, black
 Metal, CuZn, nickel-plated
 Plastic, PP, black
 Metal, CuZn, gold-plated
 Plastic, FPM (Viton)

Plug-type connector
 Handle base
 Union nut/screw
 Contact base
 Contacts

Connector, M12 x 1
 Plastic, PP, black
 Metal, CuZn, nickel-plated
 Plastic, TPU, black
 Metal, CuZn, gold-plated

Rated voltage of a winding 4-pole: max. 250 V

Ampacity
 Insulation resistance
 Contact resistance

5-pole (4-pole+PE): max. 60 V
 4 A
 $\geq 10^9$ Ohm
 ≥ 5 m Ohm

Ambient temperature of
 plug-type connector

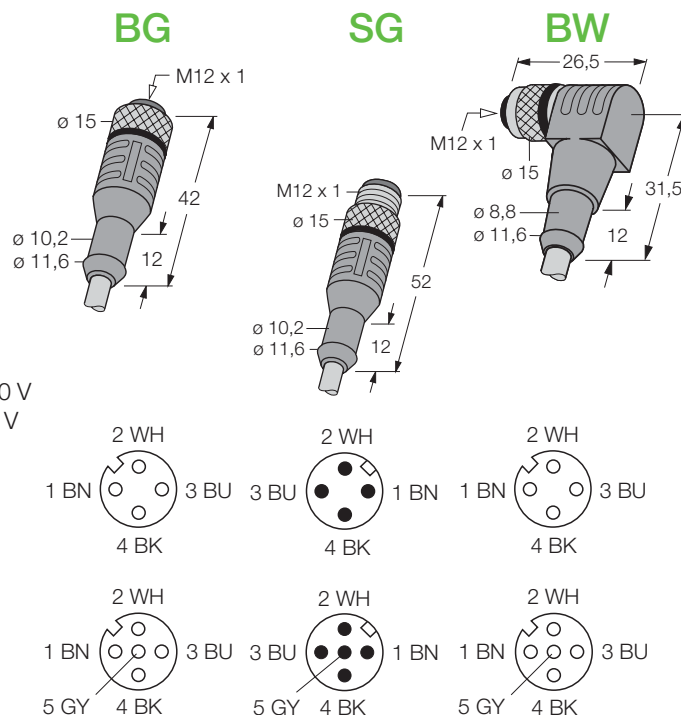
-40°F to +221°F
 (-40°C to +105 °C)

Protection class

IP69K, in screwed state

Mechanical service life

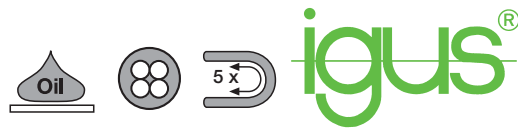
max. 100 insertion cycles



CF9-03-04-INI* (4 x 0.34)	Part No.	Number Poles	Cable length ft. (m)	Connector Type	
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



CF-INI
CF9



M8 Socket

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

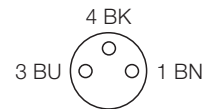
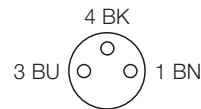
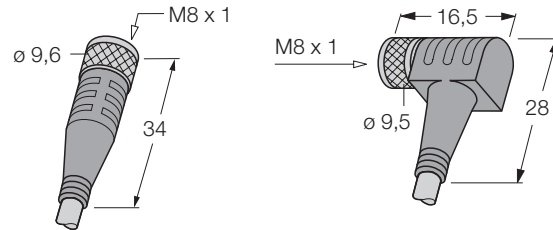
Number of poles	4-pole
Ampacity	4 A
Rated voltage of a winding	max. 30 V

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

BW



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CF9-02-03-INI* (3 x 0.25)	Part No.	Number Poles	Cable length		Connector Type
Type			ft.	(m)	
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

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)

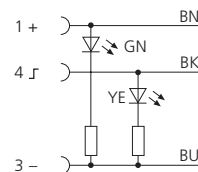
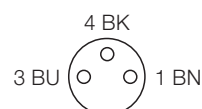
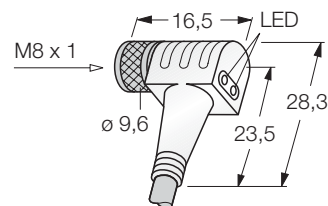
Number of poles	3-pole
Ampacity	4 A
Rated voltage of a winding	10...30 V

Insulation resistance	$\geq 10^9$ 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		Connector Type
			ft.	(m)	
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



Connection cable M8 x 1, connector on each end

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts
Seal

Coupling, M8 x 1
Plastic, PP, black
Metal, CuZn, nickel-plated
Plastic, PP, black
Metal, CuZn, gold-plated
Plastic, FPM (Viton)

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts

Connector, M8 x 1
Plastic, PP, black
Metal, CuZn, nickel-plated
Plastic, PP, black
Metal, CuZn, gold-plated

Rated voltage of a winding 3-pole: max. 60 V
4-pole: max. 30 V

Ampacity 4 A

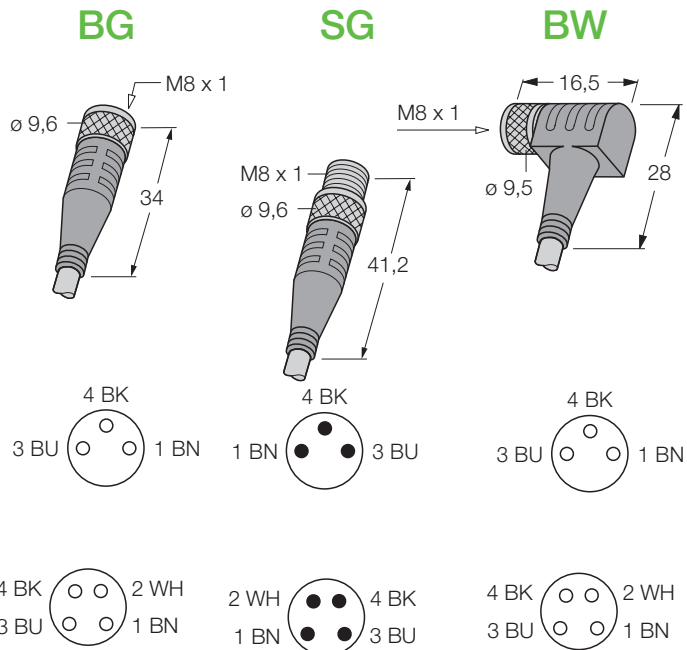
Insulation resistance $\geq 10^9$ Ohm

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



CF9-02-03-INI* (3 x 0.25)	Part No.	Number Poles	Cable length ft.	(m)	Connector Type	
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

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CF-INI

Direct line M12 x 1 connector, single end cordset

Plug-type connector
 Handle base
 Union nut/screw
 Contact base
 Contacts
 Seal

Coupling, M12 x 1
 Plastic, PP, black
 Metal, CuZn, nickel-plated
 Plastic, PP, black
 Metal, CuZn, gold-plated
 Plastic, FPM (Viton)

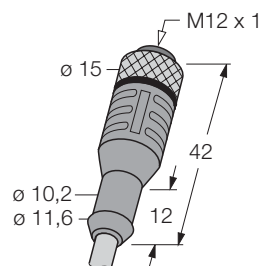
Number of poles 4-pole
 Ampacity 4 A
 Rated voltage of a winding max. 250 V

Insulation resistance $\geq 10^9$ Ohm
 Contact resistance ≥ 5 m Ohm

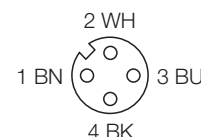
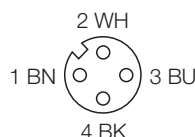
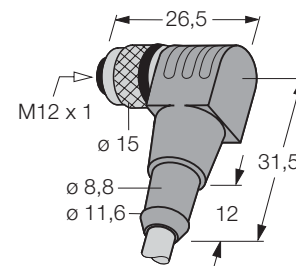
Ambient temperature of plug-type connector
 -40°F to +221°F
 (-40°C to +105 °C)

Protection class IP69K, in screwed state
 Mechanical service life max. 100 insertion cycles

BG



BW



CF98-03-04-INI* (4 x 0.34)	Part No.	Number	Cable length		Connector
Type		Poles	ft.	(m)	Type
CF98.INI-P4-M12-BG-3	MAT90410235	4	9.84	(3.0)	BG
CF98.INI-P4-M12-BG-5	MAT90410236	4	16.41	(5.0)	BG
CF98.INI-P4-M12-BG-7	MAT90410237	4	22.97	(7.0)	BG
CF98.INI-P4-M12-BG-10	MAT90410238	4	32.81	(10.0)	BG
CF98.INI-P4-M12-BG-15	MAT90410239	4	49.22	(15.0)	BG



CF98-03-04-INI* (4 x 0.34)					
CF98.INI-P4-M12-BW-3	MAT90410240	4	9.84	(3.0)	BW
CF98.INI-P4-M12-BW-5	MAT90410241	4	16.41	(5.0)	BW
CF98.INI-P4-M12-BW-7	MAT90410242	4	22.97	(7.0)	BW
CF98.INI-P4-M12-BW-10	MAT90410243	4	32.81	(10.0)	BW
CF98.INI-P4-M12-BW-15	MAT90410244	4	49.22	(15.0)	BW

*Refer to the CF98 page in the Control Cable section for more cable information

CF-INI



CF-INI
CF98



M12 Socket

Connection cable M12 x 1, connector on each end

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts
Seal

Coupling, M12 x 1
Plastic, PP, black
Metal, CuZn, nickel-plated
Plastic, TPU, black
Metal, CuZn, gold-plated
Plastic, FPM (Viton)

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts

Connector, M12x1
Plastic, PP, black
Metal, CuZn, nickel-plated
Plastic, TPU, black
Metal, CuZn, gold-plated

Rated voltage of a winding
Ampacity
Insulation resistance
Contact resistance

4-pole: max. 250V
4A
 $\geq 10^9 \text{ Ohm}$
 $\geq 5 \text{ m Ohm}$

Ambient temperature of
plug-type connector

-40°F to +221°F
(-40 °C to +105 °C)

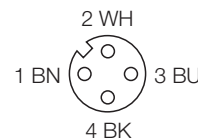
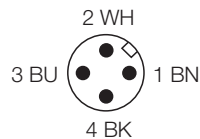
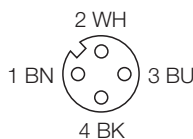
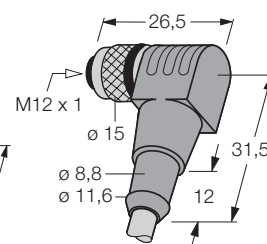
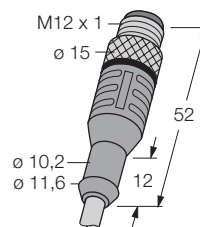
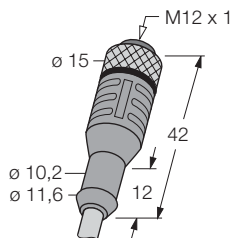
Protection class
Mechanical service life

IP69K, in screwed state
max. 100 Steckzyklen

BG

SG

BW



CF98-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft. (m)	Connector Type
CF98.INI-P4-M12-BG / M12-SG-2	MAT90410300	4	6.56 (2.0)	BG SG
CF98.INI-P4-M12-BG / M12-SG-5	MAT90410301	4	16.41 (5.0)	BG SG
CF98.INI-P4-M12-BG / M12-SG-10	MAT90410302	4	32.81 (10.0)	BG SG



CF98-03-04-INI* (4 x 0.34) Type	Part No.	Number Poles	Cable length ft. (m)	Connector Type
CF98.INI-P4-M12-BW / M12-SG-2	MAT90410303	4	6.56 (2.0)	BW SG
CF98.INI-P4-M12-BW / M12-SG-5	MAT90410304	4	16.41 (5.0)	BW SG
CF98.INI-P4-M12-BW / M12-SG-10	MAT90410305	4	32.81 (10.0)	BW SG

*Refer to the CF98 page in the Control Cable section for more cable information

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CF-INI

Direct line M8 x 1 connector, single end cordset

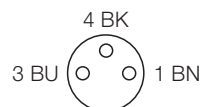
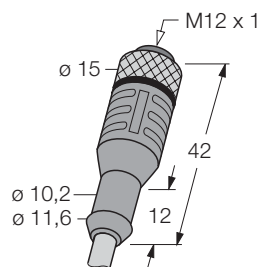
Plug-type connector	Coupling, M8 x 1
Handle base	Plastic, PP, black
Union nut/screw	Metal, CuZn, nickel-plated
Contact base	Plastic, PP, black
Contacts	Metal, CuZn, gold-plated
Seal	Plastic, FPM (Viton)

Number of poles	3-pole
Ampacity	4 A
Rated voltage of a winding	max. 60 V

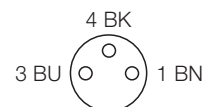
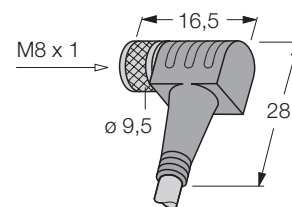
Insulation resistance	$\geq 10^9$ Ohm
Contact resistance	≥ 5 m Ohm

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



BW



CF98-02-03-INI* (3 x 0.25) Type	Part No.	Number Poles	Cable length		Connector Type
			ft.	(m)	
CF98.INI-P3-M8-BG-3	MAT90410245	3	9.84	(3.0)	BG
CF98.INI-P3-M8-BG-5	MAT90410246	3	16.41	(5.0)	BG
CF98.INI-P3-M8-BG-7	MAT90410247	3	22.97	(7.0)	BG
CF98.INI-P3-M8-BG-10	MAT90410248	3	32.81	(10.0)	BG
CF98.INI-P3-M8-BG-15	MAT90410249	3	49.22	(15.0)	BG

*Refer to the CF98 page in the Control Cable section for more cable information



CF98-02-03-INI* (3 x 0.25)					
CF98.INI-P3-M8-BW-3	MAT90410250	3	9.84	(3.0)	BW
CF98.INI-P3-M8-BW-5	MAT90410251	3	16.41	(5.0)	BW
CF98.INI-P3-M8-BW-7	MAT90410252	3	22.97	(7.0)	BW
CF98.INI-P3-M8-BW-10	MAT90410253	3	32.81	(10.0)	BW
CF98.INI-P3-M8-BW-15	MAT90410254	3	49.22	(15.0)	BW

CF-INI



CF-INI
CF98



M8 Socket

Connection cable M8 x 1, connector on each end

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts
Seal

Coupling, M8 x 1
Plastic, PP, black
Metal, CuZn, nickel-plated
Plastic, TPU, black
Metal, CuZn, gold-plated
Plastic, FPM (Viton)

Plug-type connector
Handle base
Union nut/screw
Contact base
Contacts

Connector, M8 x 1
Plastic, PP, black
Metal, CuZn, nickel-plated
Plastic, PP, black
Metal, CuZn, gold-plated

Rated voltage of a winding
Ampacity
Insulation resistance
Contact resistance

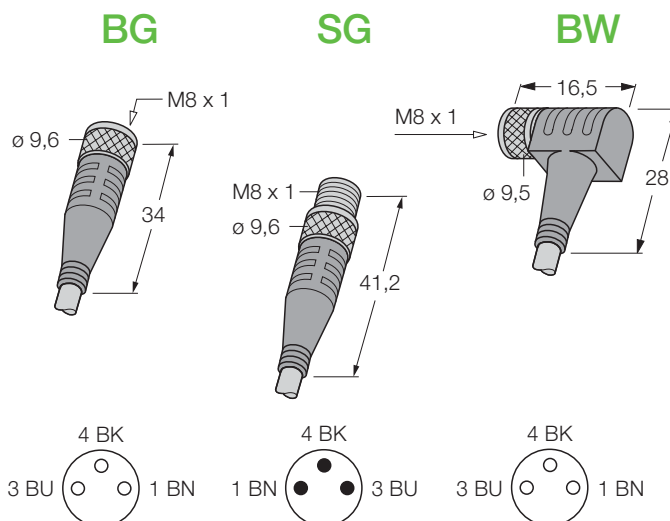
3-pole: max. 60 V
4A
≥ 10⁹ Ohm
≥ 5 m Ohm

Ambient temperature of
plug-type connector

-40°F to +221°F
(-40 °C to +105 °C)

Protection class
Mechanical service life

IP69K, in screwed state
max. 100 insertion cycles



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CF98-02-03-INI* (3 x 0.25) Type	Part No.	Number Poles	Cable length ft. (m)	Connector Type
CF98.INI-P3-M8-BG / M8-SG-2	MAT90410306	3	6.56 (2.0)	BG SG
CF98.INI-P3-M8-BG / M8-SG-5	MAT90410307	3	16.41 (5.0)	BG SG
CF98.INI-P3-M8-BG / M8-SG-10	MAT90410308	3	32.81 (10.0)	BG SG

*Refer to the CF98 page in the Control Cable section for more cable information



CF98-02-03-INI* (3 x 0.25) Type	Part No.	Number Poles	Cable length ft. (m)	Connector Type
CF98.INI-P3-M8-BW / M8-SG-2	MAT90410309	3	6.56 (2.0)	BW SG
CF98.INI-P3-M8-BW / M8-SG-5	MAT90410310	3	16.41 (5.0)	BW SG
CF98.INI-P3-M8-BW / M8-SG-10	MAT90410311	3	32.81 (10.0)	BW SG

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