

... harnessed cables for drive technology ...
chainflex® readycable®

Selection chart for igus® chainflex® cables (you can find the green number on

... harnessed cables for drive technology ...
chainflex® readycable®

the product pages of the respective manufacturers)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
chainflex® series	CF31	CF35.UL	CF38	CF210.UL	CF21.UL	CF270.UL.D	CF27.D	CF211 Mess	CF111.D	CF113.D	CF11.D	CFBUS	CF240.PUR	CF211	CF113	CF11
Class	5.5.2.1	6.6.4.1	7.6.4.1	4.2.2.1	5.5.2.1	4.2.3.1	6.5.3.1	4.2.2.1	4.2.3.1	6.5.3.1	6.6.4.1	6.6.4.1	4.4.3.1	5.5.2.1	6.5.3	6.6.4.1
Outer jacket	PVC	TPE	TPE	PVC	PVC	PUR	PUR	PVC	PUR	PUR	TPE	TPE	PUR	PVC	PUR	TPE
Shielded	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Minimum bend radius [x d]	7.5 x d	7.5 x d	7.5 x d	10 x d	7.5 x d	10 x d	7.5 x d	10 x d	10 x d	7.5 x d	7.5 x d	10 - 12.5 x d	10 x d	7.5 x d	10 x d	6.8 x d
Travel distance [m]	≤ 100	≤ 400	≤ 400	≤ 10	≤ 100	≤ 10	≤ 100	≤ 10	≤ 10	≤ 100	≤ 400	≤ 400	≤ 50	≤ 100	≤ 100	≤ 400
Oil-resistant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil-/coolant-resistant						✓	✓		✓	✓			✓		✓	
Flame-retardant	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
Halogen-free			✓			✓	✓		✓	✓	✓		✓		✓	✓
Notch-resistant						✓	✓		✓	✓			✓		✓	✓
Hydrolysis-/microbe-resistant		✓	✓			✓	✓		✓	✓	✓	✓	✓		✓	✓
Temperature, from/to [°C]	-5/+70	-35/+90	-35/+90	+5/+70	+5/+70	-25/+80	-25/+80	+5/+70	-25/+80	-25/+80	-35/+90	-35/+70	-25/+80	+5/+70	-25/+80	-35/+100
Nominal voltage [V]	600/1000	600/1000	600/1000	600/1000	600/1000	600/1000	600/1000	50	50	50	50	50	300/300	300/300	300/300	300/300
Farbe	Jet black	Signal black	Jet black	Pastel orange	Moss green	Pastel orange	Pastel orange	Yellow green	Yellow green	Yellow green	Yellow green	Red lilac	Silver grey	Silver grey	Anthracite grey	Steel blue
CE/CEI																
RoHS																
CleanRoom																
EAC/CTP																
UL/CSA + NFPA																
Desina																
More Information																
► Catalogue page	296	316	322	252	260	266	274	216	226	232	238	174	120	124	-	132
www.igus.eu/	CF31	CF35UL	CF38	CF210UL	CF21UL	CF270ULD	CF27D	CF211M	CF111D	CF113D	CF11D	CFBUS	CF240PUR	CF211	CF113	CF11

... harnessed cables for drive technology ...
chainflex® readycable®

Selection chart for igus® chainflex® cables (you can find the green number on

... harnessed cables for drive technology ...
chainflex® readycable®

the product pages of the respective manufacturers)

	17	18	19	20	21	22	23		24	25	26	27	28	29	30	31	32
chainflex® series	CF130.UL	CF140.UL	CF5	CF6	CF77.UL.D	CF78.UL	CF9		CF10	CF9.UL	CF211.PUR	CF220.UL.H	CF280.UL.H	CFBUS.PVC	CFBUS.PUR	CF240	CF29.D
Class	4.4.1.1	4.4.1.1	5.5.2.1	5.5.2.1	5.5.3.1	5.5.3.1	7.6.4.2		7.6.4.1	6.6.4.2	5.5.3.1	4.2.2.1	4.2.3.1	4.3.2.1	4.3.3.1	4.4.2.1	7.6.4.1
Outer jacket	PVC	PVC	PVC	PVC	PUR	PUR	TPE		TPE	TPE	PUR	PVC	PUR	PVC	PUR	PVC	TPE
Shielded		✓		✓		✓			✓		✓	✓	✓	✓	✓	✓	✓
Minimum bend radius [x d]	7.5 x d	7.5 x d	6.8 x d	6.8 x d	6.8 x d	6.8 x d	5 x d		5 x d	5 x d	7.5 x d	10 x d	10 x d	12.5 x d	12.5 x d	10 x d	6.8 x d
Travel distance [m]	≤ 50	≤ 50	≤ 50	≤ 50	≤ 100	≤ 100	> 400		> 400	> 400	≤ 100	≤ 10	≤ 10	≤ 20	≤ 20	≤ 50	≤ 400
Oil-resistant			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil-/coolant-resistant					✓	✓					✓		✓		✓		✓
Flame-retardant	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	
Halogen-free					✓	✓	✓		✓				✓		✓		✓
Notch-resistant					✓	✓					✓		✓		✓		
Hydrolysis-/microbe-resistant					✓	✓	✓		✓	✓	✓		✓		✓		✓
Temperature, from/to [°C]	+5/+70	+5/+70	+5/+70	+5/+70	-25/+80	-25/+80	-35/+100		-35/+100	-35/+100	-25/+80	+5/+70	-25/+80	+5/+70	-20/+70	-15/+70	-55/+100
Nominal voltage [V]	300/500	300/500	300/500	300/500	300/500	300/500	300/500		300/500	300/500	300/300	600/1000	600/1000	50	50	300/300	600/1000
Farbe	Silver grey	Silver grey	Moss green	Moss green	Window grey	Window grey	Steel blue		Steel blue	Slate grey	Silver grey	Pastel orange	Pastel orange	Red lilac	Red lilac	Silver grey	Pastel orange
CE/CEI																	
RoHS																	
CleanRoom																	
EAC/CTP																	
UL/CSA + NFPA																	
Desina																	
More Information																	
► Catalogue page	50	54	58	62	78	82	90		94	98	128	256	270	162	170	116	278
www.igus.eu/	CF130	CF140	CF5	CF6	CF77	CF78	CF9		CF10	CF9UL	CF211PUR	CF220ULH	CF280ULH	CFBUSPVC	CFBUSPUR	CF240	CF29.D

* Technical information on the cable quality ► page 498-501

Manufacturer Part No.	Cable quality	igus® Part No.	Number of cores and conductor nominal cross section	Ø Minimum bend radius		Cable page 498-501
				[mm²]	[mm] [x d]	

Mitsubishi Electric Motor cables

Basic cable



MR-BKS1CBL-xxx-A1-H	PVC	MAT9712002	3G0.75	6.5	6.8	19
	PUR	MAT9812002	3G0.75	6.5	6.8	21
MR-BKS1CBL-xxx-A2-H	PVC	MAT9712004	3G0.75	6.5	6.8	19
	PUR	MAT9812004	3G0.75	6.5	6.8	21

Basic cable



MR-PWS1CBL-xxx-A1-H	PVC	MAT9712001	4G0.75	7.0	6.8	19
	PUR	MAT9812001	4G0.75	7.0	6.8	21
MR-PWS1CBL-xxx-A2-H	PVC	MAT9712003	4G0.75	7.0	6.8	19
	PUR	MAT9812003	4G0.75	7.0	6.8	21

Basic cable



PCS015N-xxx-0-0C4	PVC	MAT9752002	(4G1.5)C	10.5	7.5	01
	PUR	MAT9852002	(4G1.5)C	9.5	10	06
	PUR	MAT9952002	(4G1.5)C	10.5	7.5	07
PCS025N-xxx-0-0C5	PVC	MAT9752003	(4G2.5)C	12.0	7.5	01
	PUR	MAT9852003	(4G2.5)C	11.5	10	06
	PUR	MAT9952003	(4G2.5)C	12.5	7.5	07
PCS025N-xxx-C4	PVC	MAT9752001	(4G2.5+(2x1.5)C)C	14.0	10	04
	PUR	MAT9852001	(4G2.5)C	11.5	10	06
	PUR	MAT9952001	(4G2.5)C	12.5	7.5	07
PCS040N-xxx-0-0C4	PVC	MAT9752004	(4G4.0)C	13.5	7.5	01
	PUR	MAT9852004	(4G4.0)C	12.5	10	06
	TPE	MAT9952004	(4G4.0)C	13.5	7.5	02
PCS040N-xxx-0-0C5	PVC	MAT9752005	(4G4.0)C	13.5	7.5	01
	PUR	MAT9852005	(4G4.0)C	12.5	10	06
	TPE	MAT9952005	(4G4.0)C	13.5	7.5	02
PCS060N-xxx-0-0C5	PVC	MAT9752006	(4G6.0)C	16.0	7.5	01
	PUR	MAT9852006	(4G6.0)C	14.5	10	06
	TPE	MAT9952006	(4G6.0)C	16.0	7.5	02

Mitsubishi Electric Encoder cables

Basic cable



MR-J3ENCBL-xxx-A1-H	PVC	MAT9722002	(3x(2x0.25))C	7.0	7.5	14
	PUR	MAT9822002	(3x(2x0.25))C	7.0	7.5	26

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image
igus® will gladly pre-harness cables to your specifications.
G = with green-yellow earth core x = without earth core

* Technical information on the cable quality ► page 498-501

Manufacturer Part No.	Cable quality	igus® Part No.	Number of cores and conductor nominal cross section	Ø Minimum bend radius		Cable page 498-501
				[mm²]	[mm] [x d]	

Mitsubishi Electric Encoder cables

Basic cable



MR-J3ENCBL-xxx-A2-H	PVC	MAT9722003	(3x(2x0.25))C	7.0	7.5	14
	PUR	MAT9822003	(3x(2x0.25))C	7.0	7.5	26

Basic cable



MR-J3ENCBL-xxx-H	PVC	MAT9722001	(3x(2x0.25))C	7.0	7.5	14
	PUR	MAT9822001	(3x(2x0.25))C	7.0	7.5	26

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. Example image
igus® will gladly pre-harness cables to your specifications.
G = with green-yellow earth core x = without earth core