

... 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 ...
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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

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	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

Harnessed drive cables | LTI DRIVES

PVC/PUR/TPE

* 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]	

LTI DRIVES Servo cables

Basic cable



KM3-KSxxx	PVC	MAT9020004	(4G1.5+2x(2x0.75)C)C	13.5	10	04
	PVC	MAT9020003	(4G1.5+2x(2x0.75)C)C	14.5	7.5	05
	PUR	MAT9020002	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9020001	(4G1.5+2x(2x0.75)C)C	14.0	7.5	07
KM3-KSxxx-24A	PVC	MAT9020014	(4G2.5+2x(2x1.5)C)C	16.0	10	04
	PVC	MAT9020013	(4G2.5+2x(2x1.5)C)C	17.0	7.5	05
	PUR	MAT9020012	(4G2.5+2x(2x1.5)C)C	16.0	10	06
	PUR	MAT9020011	(4G2.5+2x(2x1.5)C)C	17.0	7.5	07

Basic cable



KM3-KSxxx-63A	PVC	MAT9020023	(4G10.0+2x(2x1.5)C)C	24.0	7.5	05
	PUR	MAT9020022	(4G10.0+2x(2x1.5)C)C	22.5	10	06
	PUR	MAT9020021	(4G10.0+2x(2x1.5)C)C	23.5	7.5	07

Extension cable



KM3-KSxxx	PVC	MAT9022004	(4G1.5+2x(2x0.75)C)C	13.5	10	04
	PVC	MAT9022003	(4G1.5+2x(2x0.75)C)C	14.5	7.5	05
	PUR	MAT9022002	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9022001	(4G1.5+2x(2x0.75)C)C	14.0	7.5	07
KM3-KSxxx-24A	PVC	MAT9022014	(4G2.5+2x(2x1.5)C)C	16.0	10	04
	PVC	MAT9022013	(4G2.5+2x(2x1.5)C)C	17.0	7.5	05
	PUR	MAT9022012	(4G2.5+2x(2x1.5)C)C	16.0	10	06
	PUR	MAT9022011	(4G2.5+2x(2x1.5)C)C	17.0	7.5	07

Extension cable



KM3-KSxxx-63A	PVC	MAT9022023	(4G10.0+2x(2x1.5)C)C	24.0	7.5	05
	PUR	MAT9022022	(4G10.0+2x(2x1.5)C)C	22.5	10	06
	PUR	MAT9022021	(4G10.0+2x(2x1.5)C)C	23.5	7.5	07

LTI DRIVES Encoder cables

Basic cable



KGH2-KSxxx	PVC	MAT9021004	(4x(2x0.25)+2x1.0)C	8.5	10	08
	TPE	MAT9021001	(4x(2x0.25)+2x1.0)C	9.5	7.5	11
KGH3-KSxxx	PVC	MAT9021014	(4x(2x0.25)+2x1.0)C	8.5	10	08
	TPE	MAT9021011	(4x(2x0.25)+2x1.0)C	9.5	7.5	11

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

Harnessed drive cables | LTI DRIVES

PVC/PUR/TPE

* 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]	

LTI DRIVES Encoder cables

Basic cable



KGS2-KSxxx	PUR	MAT9021023	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5)C)	10.5	10	09
	PUR	MAT9021022	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5)C)	11.5	7.5	10
	TPE	MAT9021021	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5)C)	11.5	7.5	11
KRY2-CDF-KSxxx	PVC	MAT9021034	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9021032	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9021031	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
KRY2-KSxxx	PVC	MAT9021044	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9021042	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9021041	(4x(2x0.25)+2x0.5)C	9.5	7.5	11

Extension cable



KGH2-KSxxx	PVC	MAT9023004	(4x(2x0.25)+2x1.0)C	8.5	10	08
	TPE	MAT9023001	(4x(2x0.25)+2x1.0)C	9.5	7.5	11
KGH3-KSxxx	PVC	MAT9023014	(4x(2x0.25)+2x1.0)C	8.5	10	08
	TPE	MAT9023011	(4x(2x0.25)+2x1.0)C	9.5	7.5	11
KGS2-KSxxx	PUR	MAT9023023	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5)C)	10.5	10	09
	PUR	MAT9023022	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5)C)	11.5	7.5	10
	TPE	MAT9023021	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5)C)	11.5	7.5	11
KRY2-CDF-KSxxx	PVC	MAT9023034	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9023032	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9023031	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
KRY2-KSxxx	PVC	MAT9023044	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9023042	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9023041	(4x(2x0.25)+2x0.5)C	9.5	7.5	11

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