

... 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

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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

* 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]	

Bosch Rexroth Encoder cables

Linking cable with adapter plug



IKS0255	TPE	MAT9100018	(12x0.5)C	12.0	5	24
IKS0303	PVC	MAT9110019	(4x(2x0.25)+2x1.0)C	8.5	10	08
	PUR	MAT9841326	(4x(2x0.25)+2x1.0)C	9.5	7.5	10
	TPE	MAT9100019	(4x(2x0.25)+2x1.0)C	9.5	7.5	11
IKS4065	PVC	MAT9111001	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9841327	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9101001	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
IKS4151	PVC	MAT9111002	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9841328	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9101002	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
IKS4153	PVC	MAT9111003	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9841329	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9101003	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
IKS4322	PVC	MAT9111005	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9841331	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9101005	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
IKS4376	PVC	MAT9111004	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9841330	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9101004	(4x(2x0.25)+2x0.5)C	9.5	7.5	11

Extension cable with adapter plug



RG2-510AAB-NN-xxx,x	PVC	MAT9741302	(2x(2x0.25)+2x0.5)C	6.5	10	08
	TPE	MAT9941302	(2x(2x0.25)+2x0.5)C	7.0	7.5	11

Linking cable with adapter plug



RKG4201	PVC	MAT9111006	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9841306	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9101006	(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

* 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]	

Elau/Schneider Electric Servo cables

Basic cable



E-MO-067	PVC	MAT9750701	(4G1.5+2x(2x0.75)C)C	13.5	10	04
	PVC	MAT9470001	(4G1.5+2x(2x0.75)C)C	14.5	7.5	05
	PUR	MAT9850701	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9470101	(4G1.5+2x(2x0.75)C)C	14.0	7.5	07
E-MO-092	PVC	MAT9750704	(4G1.5+2x(2x0.75)C)C	13.5	10	04
	PVC	MAT9470004	(4G1.5+2x(2x0.75)C)C	14.5	7.5	05
	PUR	MAT9850704	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9470104	(4G1.5+2x(2x0.75)C)C	14.0	7.5	07
E-MO-087	PVC	MAT9750703	(4G2.5+2x(2x1.5)C)C	16.0	10	04
	PVC	MAT9470003	(4G2.5+2x(2x1.5)C)C	17.0	7.5	05
	PUR	MAT9850703	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9470103	(4G2.5+2x(2x1.5)C)C	17.0	7.5	07
E-MO-111 SH-Motor 1.5	PVC	MAT9750702	(4G1.5+2x(2x0.75)C)C	13.5	10	04
	PVC	MAT9470002	(4G1.5+2x(2x0.75)C)C	14.5	7.5	05
	PUR	MAT9850702	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9470102	(4G1.5+2x(2x0.75)C)C	14.0	7.5	07

Basic cable



E-MO-113 SH-Motor 2.5	PVC	MAT9750705	(4G2.5+2x(2x1.5)C)C	16.0	10	04
	PVC	MAT9470005	(4G2.5+2x(2x1.5)C)C	17.0	7.5	05
	PUR	MAT9850705	(4G1.5+2x(2x0.75)C)C	13.5	10	06
	PUR	MAT9470105	(4G2.5+2x(2x1.5)C)C	17.0	7.5	07

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* 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]	

Elau/Schneider Electric Hybrid Servo cables

Basic cable



iE-MO-109, iVW3E1109Rxxx	PUR	MAT9850706	(4G25.0+2x(2x1.5)C)C	28.5	10	06
iE-MO-117, iVW3E1117Rxxx	PUR	MAT9850707	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-118, iVW3E1118Rxxx	PUR	MAT9850708	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-119, iVW3E1119Rxxx	PUR	MAT9850709	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-120, iVW3E1120Rxxx	PUR	MAT9850710	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-121, iVW3E1121Rxxx	PUR	MAT9850711	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-124, iVW3E1124Rxxx	PUR	MAT9850712	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-125, iVW3E1125Rxxx	PUR	MAT9850713	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-126, iVW3E1126Rxxx	PUR	MAT9850714	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28
iE-MO-127, iVW3E1127Rxxx	PUR	MAT9850715	5G2.5+(4xAWG24)C+(2x0.25)C	14.5	10	28

Elau/Schneider Electric Encoder cables

Basic cable



E-FB-060	PVC	MAT9480001	(4x(2x0.25)+2x0.5)C	8.0	10	08
	TPE	MAT9480101	(4x(2x0.25)+2x0.5)C	9.5	7.5	11
E-FB-071	PVC	MAT9480002	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9940702	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9480102	(4x(2x0.25)+2x0.5)C	9.5	7.5	11

Basic cable



E-FB-080	PVC	MAT9480003	(4x(2x0.25)+2x0.5)C	8.0	10	08
	PUR	MAT9940703	(4x(2x0.25)+2x0.5)C	9.5	7.5	10
	TPE	MAT9480103	(4x(2x0.25)+2x0.5)C	9.5	7.5	11

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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]	

Fagor Path measuring cables

Extension cable



iEEC-x	PUR	MAT9950808	(4x(2x0.14)+4x0.5)C	8.5	10	09
	PUR	MAT9850808	(4x(2x0.14)+4x0.5)C	9.5	7.5	10
	TPE	MAT9520070	(4x(2x0.14)+4x0.5)C	9.0	7.5	11

Extension cable



iXC-C2-D	PUR	MAT9950801	(4x(2x0.14)+4x0.5)C	8.5	10	09
	PUR	MAT9850801	(4x(2x0.14)+4x0.5)C	9.5	7.5	10
	TPE	MAT9520001	(4x(2x0.14)+4x0.5)C	9.0	7.5	11

Extension cable



iXC-C2-FN2	PUR	MAT9950807	(4x(2x0.14)+4x0.5)C	8.5	10	09
	PUR	MAT9850807	(4x(2x0.14)+4x0.5)C	9.5	7.5	10
	TPE	MAT9520060	(4x(2x0.14)+4x0.5)C	9.0	7.5	11

Extension cable



iXC-C2-H	PUR	MAT9950803	(4x(2x0.14)+4x0.5)C	8.5	10	09
	PUR	MAT9850803	(4x(2x0.14)+4x0.5)C	9.5	7.5	10
	TPE	MAT9520020	(4x(2x0.14)+4x0.5)C	9.0	7.5	11

Extension cable



iXC-C4-D	PUR	MAT9950802	(4x(2x0.14)+4x0.5)C	8.5	10	09
	PUR	MAT9850802	(4x(2x0.14)+4x0.5)C	9.5	7.5	10
	TPE	MAT9520010	(4x(2x0.14)+4x0.5)C	9.0	7.5	11

Extension cable



iXC-C8-F-C9	PUR	MAT9950805	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5)C	10.5	10	09
	PUR	MAT9850805	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5)C	11.5	7.5	10
	TPE	MAT9520040	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5)C	11.5	7.5	11

Extension cable



iXC-C8-F-D	PUR	MAT9950804	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5)C	10.5	10	09
	PUR	MAT9850804	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5)C	11.5	7.5	10
	TPE	MAT9520030	(2x(2x(2x0.14)))+(4x0.14)C+(4x0.5)C	11.5	7.5	11

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