

... 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

# Harnessed drive cables | Fanuc

## 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 [mm²]	Ø [mm]	Minimum bend radius [x d]	Cable page 498-501
<b>Fanuc Signal cables</b>						
<b>Basic cable</b>						
LX660-2018-T015	PVC	MAT9840924	(10x(2x0.25))C	12.0	7.5	14
<b>Basic cable</b>						
LX660-4077-T296	PUR	MAT9300296	((2x0.25)+5x0.5)C	7.0	10	09
	PUR	MAT9840901	((2x0.25)+5x0.5)C	8.5	7.5	10
	TPE	MAT9310296	((2x0.25)+5x0.5)C	8.5	7.5	11
<b>Basic cable</b>						
LX660-4077-T297	PUR	MAT9300297	((2x0.25)+5x0.5)C	7.0	10	09
	PUR	MAT9840902	((2x0.25)+5x0.5)C	8.5	7.5	10
	TPE	MAT9310297	((2x0.25)+5x0.5)C	8.5	7.5	11
<b>Basic cable</b>						
LX660-4077-T302	PUR	MAT9300302	((4x0.25)+3x(2x0.25+2x0.5))C	9.5	10	09
	PUR	MAT9840903	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	7.5	10
	TPE	MAT9310302	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	7.5	11
<b>Basic cable</b>						
LX660-4077-T303	PUR	MAT9300303	((4x0.25)+3x(2x0.25+2x0.5))C	9.5	10	09
	PUR	MAT9840904	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	7.5	10
	TPE	MAT9310303	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	7.5	11
LX660-4077-T310	TPE	MAT9940922	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	7.5	11
<b>Basic cable</b>						
LX660-4077-T319	PUR	MAT9300319	((4x0.25)+3x(2x0.25+2x0.5))C	9.5	10	09
	PUR	MAT9840905	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	7.5	10
	TPE	MAT9310319	((4x0.25)+3x(2x0.25+2x0.5))C	11.0	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 | Festo

## 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 [mm²]	Ø [mm]	Minimum bend radius [x d]	Cable page 498-501
<b>Festo Servo cables</b>						
<b>Basic cable</b>						
NEBM-M16G8-E-xxx-Q7-LE8	PUR	MAT9852303	(4G0.75+2x(2x0.34))C	11.5	10	06
<b>Basic cable</b>						
NEBM-M23G6-E-xxx-N-LE7	PVC	MAT9752301	(4G1.5+2x(2x0.75))C	13.5	10	04
	PVC	MAT9752317	(4G1.5+2x(2x0.75))C	14.5	7.5	05
	PUR	MAT9852301	(4G1.5+2x(2x0.75))C	13.5	10	06
	PUR	MAT9852317	(4G1.5+2x(2x0.75))C	14.0	7.5	07
NEBM-M23G8-E-xxx-N-LE8	PVC	MAT9752300	(4G2.5+2x(2x1.5))C	16.0	10	04
	PVC	MAT9752316	(4G2.5+2x(2x1.5))C	17.0	7.5	05
	PUR	MAT9852300	(4G2.5+(4x0.5))C	13.5	10	06
	PUR	MAT9852316	(4G2.5+(4x0.5))C	14.5	7.5	07
<b>Basic cable</b>						
NEBM-M40G8-E-xxx-N-LE7	PVC	MAT9752302	(4G2.5+2x(2x1.5))C	16.0	10	04
	PVC	MAT9752318	(4G2.5+2x(2x1.5))C	17.0	7.5	05
	PUR	MAT9852302	(4G2.5+2x(2x1.5))C	16.0	10	06
	PUR	MAT9852318	(4G2.5+2x(2x1.5))C	17.0	7.5	07
<b>Festo Control cables</b>						
<b>Basic cable</b>						
KPWR-MC-1-SUB-9HC-xxx	PVC	MAT9712320	(3G1.5)C	9.0	7.5	18
	PUR	MAT9812320	(3G1.5)C	9.5	6.8	22
<b>Festo Encoder cables</b>						
<b>Basic cable</b>						
NEBM-M23G12-E-xxx-N-S1G9	PVC	MAT9742308	(3x(2x0.14))C+2x(0.5)C	9.5	10	08
	PUR	MAT9842308	(3x(2x0.14))C+2x(0.5)C	9.5	10	09
	PUR	MAT9842324	(3x(2x0.14))C+2x(0.5)C	10.5	7.5	10
	TPE	MAT9942308	(3x(2x0.14))C+2x(0.5)C	10.0	7.5	11
<b>Festo Data cables</b>						
<b>Basic cable</b>						
KDI-MC-M8-SUB-9-xxx	PVC	MAT9722311	(3x0.25)C	5.0	10	31
	PUR	MAT9822311	(3x0.25)C	6.0	10	13

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## 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]	

### Festo Data cables

#### Basic cable



KES-MC-1-SUB-9-xxx	PVC	MAT9722310	(14x0.14)C	7.5	10	31
	PUR	MAT9822310	(14x0.14)C	8.0	10	13

#### Basic cable



NEBM-M12G8-E-xxx-N-S1G15	PVC	MAT9722305	(4x(2x0.25))C	8.0	7.5	14
	PUR	MAT9822321	(4x(2x0.25))C	9.0	10	15
	PUR	MAT9822305	(4x(2x0.25))C	7.5	7.5	26
	TPE	MAT9922305	(4x(2x0.25))C	8.5	6.8	16

#### Basic cable



NEBM-M12G8-E-xxx-S1G9	PVC	MAT9722306	(4x(2x0.25))C	8.0	7.5	14
	PUR	MAT9822322	(4x(2x0.25))C	9.0	10	15
	PUR	MAT9822306	(4x(2x0.25))C	7.5	7.5	26
	TPE	MAT9922306	(4x(2x0.25))C	8.5	6.8	16

#### Basic cable



NEBM-M12W8-E-xxx-N-S1G15	PVC	MAT9722307	(4x(2x0.25))C	8.0	7.5	14
	PUR	MAT9822323	(4x(2x0.25))C	9.0	10	15
	PUR	MAT9822307	(4x(2x0.25))C	7.5	7.5	26
	TPE	MAT9922307	(4x(2x0.25))C	8.5	6.8	16

#### Basic cable



NEBM-S1G15-E-xxx-LE6	PVC	MAT9722309	(4x(2x0.5))C	9.5	7.5	14
	PUR	MAT9822325	(4x(2x0.5))C	11.0	10	15
	PUR	MAT9822309	(4x(2x0.5))C	9.5	7.5	26
	TPE	MAT9922309	(4x(2x0.5))C	9.5	6.8	16

#### Basic cable



NEBM-S1G9-E-xxx-LE6	PVC	MAT9722313	(7x0.34)C	7.5	10	31
	PUR	MAT9822313	(7x0.34)C	8.0	10	13

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## PVC/PUR/TPE

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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]	

### Festo Bus cables

#### Basic cable



FBA-CO-SUB-9-M12	PVC	MAT9732312	(4x0.5)C	8.5	12.5	29
	PUR	MAT9832312	(4x0.5)C	8.5	12.5	30
	TPE	MAT9932312	(4x0.5)C	8.5	10	12

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.  
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