

... 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 | Fagor

## 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	∅	Minimum bend radius	Cable page 498-501
			[mm²]	[mm]	[x d]	

### Fagor Path measuring cables

#### Extension cable



iXC-C8-FN	PUR	MAT9950806	(4x(2x0.14)+4x0.5)C	8.5	10	09
	PUR	MAT9850806	(4x(2x0.14)+4x0.5)C	9.5	7.5	10
	TPE	MAT9520050	(4x(2x0.14)+4x0.5)C	9.0	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 | 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	∅	Minimum bend radius	Cable page 498-501
			[mm²]	[mm]	[x d]	

### Fanuc Power cables

#### Basic cable



LX660-8077-T261	PVC	MAT9760901	(4G1.5)C	10.5	7.5	01
	PUR	MAT9200061	(4G1.5)C	9.5	10	06
	PUR	MAT9210061	(4G1.5)C	10.5	7.5	07
	TPE	MAT9960901	(4G1.5)C	10.0	7.5	02

#### Basic cable



LX660-8077-T264	PVC	MAT9760902	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200064	(4G2.5)C	11.5	10	06
	PUR	MAT9210064	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960902	(4G2.5)C	11.5	7.5	02
LX660-8077-T266	PVC	MAT9760904	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200066	(4G2.5)C	11.5	10	06
	PUR	MAT9210066	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960904	(4G2.5)C	11.5	7.5	02

#### Basic cable



LX660-8077-T265	PVC	MAT9760903	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200065	(4G2.5)C	11.5	10	06
	PUR	MAT9210065	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960903	(4G2.5)C	11.5	7.5	02
LX660-8077-T267	PVC	MAT9760905	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200067	(4G2.5)C	11.5	10	06
	PUR	MAT9210067	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960905	(4G2.5)C	11.5	7.5	02

#### Basic cable



LX660-8077-T270	PVC	MAT9760906	(4G4.0)C	13.5	7.5	01
	PUR	MAT9200070	(4G4.0)C	12.5	10	06
	PUR	MAT9210070	(4G4.0+(2x1.5)C)C	16.0	7.5	07
	TPE	MAT9960906	(4G4.0)C	13.5	7.5	02

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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# Harnessed drive cables | Fanuc

## PUR/PVC/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]	

### Fanuc Power cables

#### Basic cable



LX660-8077-T271	PVC	MAT9760907	(4G4.0)C	13.5	7.5	01
	PUR	MAT9200071	(4G4.0)C	12.5	10	06
	PUR	MAT9210071	(4G4.0+(2x1.5)C)C	16.0	7.5	07
	TPE	MAT9960907	(4G4.0)C	13.5	7.5	02
LX660-8077-T272	PVC	MAT9760908	(4G10.0)C	20.5	7.5	01
	PUR	MAT9200072	(4G10.0)C	18.0	10	06
	PUR	MAT9210072	(4G10.0+(2x1.5)C)C	21.0	7.5	07
	TPE	MAT9960908	(4G10.0)C	19.5	7.5	02
LX660-8077-T273	PVC	MAT9760909	(4G10.0)C	20.5	7.5	01
	PUR	MAT9200073	(4G10.0)C	18.0	10	06
	PUR	MAT9210073	(4G10.0+(2x1.5)C)C	21.0	7.5	07
	TPE	MAT9960909	(4G10.0)C	19.5	7.5	02

#### Basic cable



LX660-8077-T291	PVC	MAT9760910	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200091	(4G2.5)C	11.5	10	06
	PUR	MAT9210091	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960910	(4G2.5)C	11.5	7.5	02
LX660-8077-T293	PVC	MAT9760912	(4G4.0)C	13.5	7.5	01
	PUR	MAT9200093	(4G4.0)C	12.5	10	06
	PUR	MAT9210093	(4G4.0+(2x1.5)C)C	16.0	7.5	07
	TPE	MAT9960912	(4G4.0)C	13.5	7.5	02

#### Basic cable



LX660-8077-T292	PVC	MAT9760911	(4G4.0)C	13.5	7.5	01
	PUR	MAT9200092	(4G4.0)C	12.5	10	06
	PUR	MAT9210092	(4G4.0+(2x1.5)C)C	16.0	7.5	07
	TPE	MAT9960911	(4G4.0)C	13.5	7.5	02

#### Basic cable



LX660-8077-T296	PVC	MAT9760913	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200096	(4G2.5)C	11.5	10	06
	PUR	MAT9210096	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960913	(4G2.5)C	11.5	7.5	02

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# 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	Ø	Minimum bend radius	Cable page 498-501
			[mm²]	[mm]	[x d]	

### Fanuc Power cables

#### Basic cable



LX660-8077-T298	PVC	MAT9760914	(4G4.0)C	13.5	7.5	01
	PUR	MAT9200098	(4G4.0)C	12.5	10	06
	PUR	MAT9210098	(4G4.0+(2x1.5)C)C	16.0	7.5	07
	TPE	MAT9960914	(4G4.0)C	13.5	7.5	02

#### Basic cable



LX660-8077-T300	PVC	MAT9760915	(4G2.5)C	12.0	7.5	01
	PUR	MAT9200300	(4G2.5)C	11.5	10	06
	PUR	MAT9210300	(4G2.5)C	12.5	7.5	07
	TPE	MAT9960915	(4G2.5)C	11.5	7.5	02

### Fanuc Servo cables

#### Basic cable



LX660-8077-T259	PUR	MAT9850916	(4G1.5)C	9.5	10	06
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#### Basic cable



LX660-8077-T274	PUR	MAT9850921	(4G2.5)C	11.5	10	06
LX660-8077-T416		MAT9850923				
LX660-8077-T451	PUR	MAT9850920	(4G2.5)C	11.5	10	06

#### Basic cable



LX660-8077-T470	PUR	MAT9850925	(4G4.0)C	12.5	10	06
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#### Basic cable



LX660-8077-T471	PUR	MAT9850917	(4G4.0)C	12.5	10	06
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### Fanuc Brake cables

#### Basic cable



LX660-8077-T311	PUR	MAT9810919	(3G0.75)C	8.0	6.8	22
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# 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

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# Harnessed drive cables | Festo

## PVC/PUR/TPE

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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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G = with green-yellow earth core x = without earth core