

... 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]	
<b>Nidec/Control Techniques Servo cables</b>						
<b>Basic cable</b>						
PB B G A B XXX	PVC	MAT9750507	(4G1.5+(2x1.5)C)C	12.0	10	04
	PVC	MAT9560046	(4G1.5+(2x1.5)C)C	13.0	7.5	05
	PUR	MAT9540046	(4G1.5+(2x1.5)C)C	13.0	7.5	07
PB B G B B XXX	PVC	MAT9750515	(4G1.5+(2x1.5)C)C	12.0	10	04
	PVC	MAT9560058	(4G1.5+(2x1.5)C)C	13.0	7.5	05
	PUR	MAT9540058	(4G1.5+(2x1.5)C)C	13.0	7.5	07
PB B G F B XXX	PVC	MAT9750511	(4G1.5+(2x1.5)C)C	12.0	10	04
	PVC	MAT9560052	(4G1.5+(2x1.5)C)C	13.0	7.5	05
	PUR	MAT9540052	(4G1.5+(2x1.5)C)C	13.0	7.5	07
PB B G G B XXX	PVC	MAT9750519	(4G1.5+(2x1.5)C)C	12.0	10	04
	PVC	MAT9560064	(4G1.5+(2x1.5)C)C	13.0	7.5	05
	PUR	MAT9540064	(4G1.5+(2x1.5)C)C	13.0	7.5	07

### Nidec/Control Techniques Encoder cables

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]	
<b>Basic cable</b>						
SS B A H C XXX	PVC	MAT9560100	(4x(2x0.34)+4x0.5)C	9.0	10	08
	PUR	MAT9840501	(4x(2x0.34)+4x0.5)C	10.5	7.5	10
	TPE	MAT9540100	(4x(2x0.34)+4x0.5)C	10.5	7.5	11
SS B A H H XXX	PVC	MAT9560101	(4x(2x0.34)+4x0.5)C	9.0	10	08
	PUR	MAT9840502	(4x(2x0.34)+4x0.5)C	10.5	7.5	10
	TPE	MAT9540101	(4x(2x0.34)+4x0.5)C	10.5	7.5	11
SS B A H N XXX	PVC	MAT9560104	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	9.0	10	08
	PUR	MAT9840505	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	10.5	7.5	10
	TPE	MAT9540104	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	10.5	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]	
<b>NUM Power cables</b>						
<b>Basic cable</b>						
AGOFRU018LMxxx	PVC	MAT9280051	(4G1.5)C	10.5	7.5	01
	TPE	MAT9282051	(4G1.5)C	10.0	7.5	02
	TPE	MAT9961201	(4G1.5)C	10.0	7.5	03
AGOFRU019LMxxx	PVC	MAT9280052	(4G4.0)C	13.5	7.5	01
	TPE	MAT9282052	(4G4.0)C	13.5	7.5	02
	TPE	MAT9961202	(4G4.0)C	13.5	7.5	03
<b>Extension cable</b>						
AGOFRU018LMxxx	PVC	MAT9280061	(4G1.5)C	10.5	7.5	01
	TPE	MAT9282061	(4G1.5)C	10.0	7.5	02
	TPE	MAT9961203	(4G1.5)C	10.0	7.5	03
AGOFRU019LMxxx	PVC	MAT9280062	(4G4.0)C	13.5	7.5	01
	TPE	MAT9282062	(4G4.0)C	13.5	7.5	02
	TPE	MAT9961204	(4G4.0)C	13.5	7.5	03

### NUM Servo cables

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]	
<b>Basic cable</b>						
AGOFRU018Mxxx	PVC	MAT9280001	(4G1.5+(2x1.5)C)C	13.0	7.5	05
	PUR	MAT9282001	(4G1.5+(2x1.5)C)C	13.0	7.5	07
AGOFRU019Mxxx	PVC	MAT9280002	(4G4.0+(2x1.5)C)C	16.0	7.5	05
	PUR	MAT9282002	(4G4.0+(2x1.5)C)C	16.0	7.5	07

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]	
<b>Basic cable</b>						
AGOFRU020Mxxx	PVC	MAT9280003	(4G10.0+(2x1.5)C)C	22.5	7.5	05
	PUR	MAT9282003	(4G10.0+(2x1.5)C)C	21.0	7.5	07

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]	
<b>Extension cable</b>						
AGOFRU018Mxxx	PVC	MAT9280011	(4G1.5+(2x1.5)C)C	13.0	7.5	05
	PUR	MAT9282011	(4G1.5+(2x1.5)C)C	13.0	7.5	07
AGOFRU019Mxxx	PVC	MAT9280012	(4G4.0+(2x1.5)C)C	16.0	7.5	05
	PUR	MAT9282012	(4G4.0+(2x1.5)C)C	16.0	7.5	07

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 | NUM 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 Minimum bend radius [mm]	x d	Cable page 498-501
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## NUM Servo cables

### Extension cable



AGOFRU020Mxxx	PVC	MAT9280013	(4G10.0+(2x1.5)C)C	22.5	7.5	05
	PUR	MAT9282013	(4G10.0+(2x1.5)C)C	21.0	7.5	07

## NUM Fan cables

### Basic cable



AGOFRU012Mxxx	PVC	MAT9289005	4G1.0	7.0	7.5	17
	TPE	MAT9289007	4G1.0	6.5	5	23

### Extension cable



AGOFRU012Mxxx	PVC	MAT9289015	4G1.0	7.0	7.5	17
	TPE	MAT9289017	4G1.0	6.5	5	23

## NUM Encoder cables

### Basic cable



AGOFRU029Mxxx	PVC	MAT9284001	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	9.0	10	08
	TPE	MAT9286001	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	10.5	7.5	11

### Basic cable



AGOFRU030Mxxx	PVC	MAT9289001	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	9.0	10	08
	TPE	MAT9289004	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	10.5	7.5	11

### Extension cable



AGOFRU029Mxxx	PVC	MAT9284011	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	9.0	10	08
	TPE	MAT9286011	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	10.5	7.5	11

### Extension cable



AGOFRU030Mxxx	PVC	MAT9289011	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	9.0	10	08
	TPE	MAT9289014	(3x(2x0.14)C+(4x0.14)+(2x0.5)C)	10.5	7.5	11

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# Harnessed drive cables | Omron 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 Minimum bend radius [mm]	x d	Cable page 498-501
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## Omron Motor cables

### Basic cable



R88A-CAWA-xxxS-DE	TPE	MAT9810004	(4G0.5)C	8.0	7.5	02
	TPE	MAT9962104	(4G0.5)C	8.0	7.5	03
R88A-CAWCxxx	PVC	MAT9710005	(4G1.5)C	10.5	7.5	01
	TPE	MAT9810005	(4G1.5)C	10.0	7.5	02
	TPE	MAT9962105	(4G1.5)C	10.0	7.5	03
R88A-CAWCxxxS-E	PVC	MAT9710003	(4G1.5)C	10.5	7.5	01
	TPE	MAT9810003	(4G1.5)C	10.0	7.5	02
	TPE	MAT9962103	(4G1.5)C	10.0	7.5	03
R88A-CAWDxxxS	PVC	MAT9710006	(4G2.5)C	12.0	7.5	01
	TPE	MAT9810006	(4G2.5)C	11.5	7.5	02
	TPE	MAT9962106	(4G2.5)C	11.5	7.5	03
R88A-CAWDxxxS-E	PVC	MAT9710001	(4G2.5)C	12.0	7.5	01
	TPE	MAT9810001	(4G2.5)C	11.5	7.5	02
	TPE	MAT9962101	(4G2.5)C	11.5	7.5	03
R88A-CAWFxxxS-E	PVC	MAT9710002	(4G4.0)C	13.5	7.5	01
	TPE	MAT9810002	(4G4.0)C	13.5	7.5	02
	TPE	MAT9962102	(4G4.0)C	13.5	7.5	03

## Omron Control cables

### Basic cable



JZSP-CHM000-xx-E	PVC	MAT9712103	(5G0.5)C	8.0	7.5	18
	PVC	MAT9710015	(5G0.5)C	8.5	6.8	20
	PUR	MAT9810015	(5G0.5)C	8.0	6.8	22
	TPE	MAT9912103	(5x0.5)C	7.5	5	24

### Basic cable



JZSP-CHM000-xx-ME	PVC	MAT9712104	(5G0.5)C	8.0	7.5	18
	PVC	MAT9710016	(5G0.5)C	8.5	6.8	20
	PUR	MAT9810016	(5G0.5)C	8.0	6.8	22
	TPE	MAT9912104	(5x0.5)C	7.5	5	24

### Basic cable



JZSP-CHM030-xx-E	PVC	MAT9712105	(7G0.75)C	10.0	7.5	18
	PVC	MAT9710017	(7G0.5)C	10.0	6.8	20
	PUR	MAT9810017	(7G0.5)C	9.5	6.8	22
	TPE	MAT9912105	(7x0.5)C	8.5	5	24

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