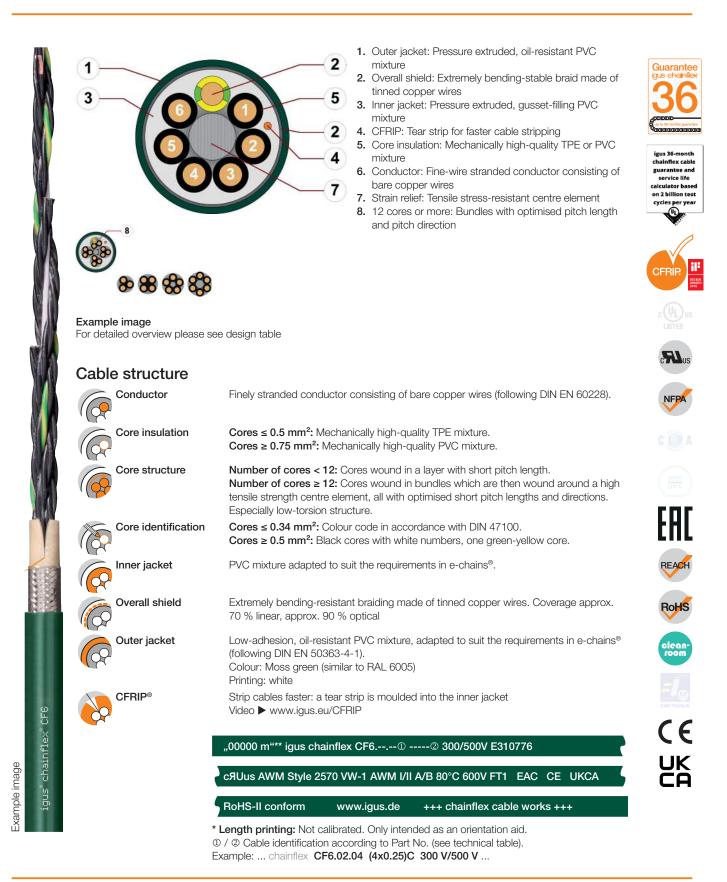


Control cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant



08/2022



Control cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

Dynamic information

Bend radius	e-chain® linear flexible fixed	minimum 6.8 x d minimum 5 x d minimum 4 x d	
*C Temperature	e-chain [®] linear flexible fixed	+5 °C up to +70 °C -5 °C up to +70 °C (following DIN EN 60811-504) -15 °C up to +70 °C (following DIN EN 50305)	
v max.	unsupported gliding	10 m/s 5 m/s	
a max.	80 m/s ²		
Travel distance	Unsupported travels and up to 100 m for gliding applications, Class 5		

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

Guaranteed service life according to guarantee conditions

Double strokes		illion		nillion	10 m	illion
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
Temperature, from/to [°C]	R min. [factor x d]					
+5/+15	7.5	10	8.5	11	9.5	12
+15/+60	6.8	7.5	7.8	8.5	8.8	9.5
+60/+70	7.5	10	8.5	11	9.5	12

Minimum guaranteed service life of the cable under the specified conditions.

The installation of the cable is recommended within the middle temperature range.

Electrical information



300/500 V (following DIN VDE 0298-3) 600 V (following UL)

Testing voltage

2000 V (following DIN EN 50395)

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Properties and app	Medium	Guarantee Igus chainilex
Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2	poppide control of the second
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame	igus 36-month chainflex cable guarantee and
, Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	service life calculator based on 2 billion test cycles per year
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	V
UL/CSA AWM	Details see table UL/CSA AWM	
NFPA	Following NFPA 79-2018, chapter 12.9	
	Certificate No. RU C-DE.ME77.B.00300/19	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	NEPA
RoHS Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	
cleanroom	According to ISO Class 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1	
CECE	Following 2014/35/EU	
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	ŁĦL

Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm²]	Number of cores	UL style core insultation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.25	4-25	10492	2570	600	80
0.34	5	10492	2570	600	80
0.5	2-25	10492	2570	600	80
0.75	3-25	11113	2570	600	80
1	3-25	11113	2570	600	80
1.5	3-36	11113	2570	600	80
2.5	4	11113	2570	600	80

Example image

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REACH

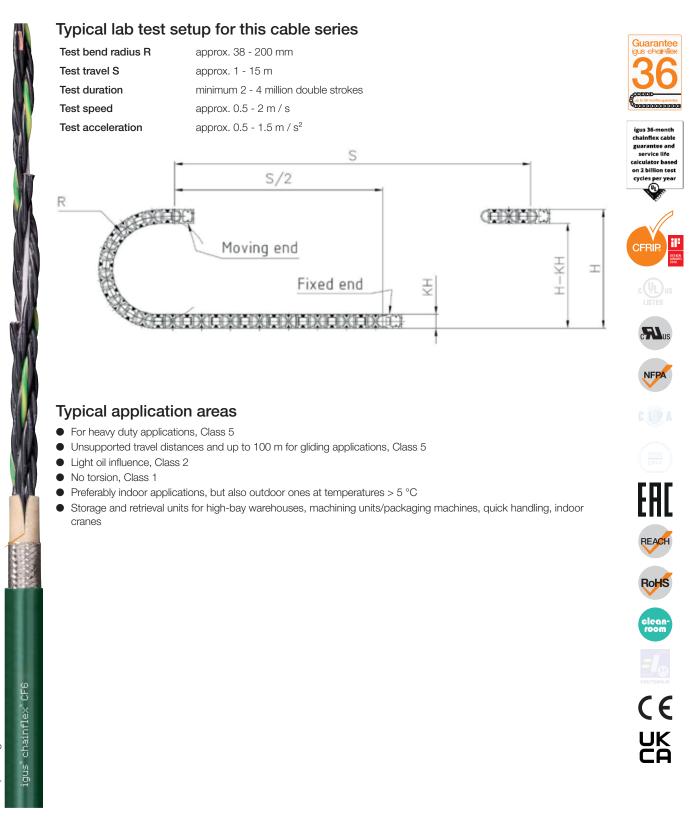
RoHS

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Control cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant



Example image

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Control cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded • Oil-resistant • Flame retardant

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d)	Copper index	Weight
	[mm ²]	max. [mm]	[kg/km]	[kg/km]
CF6.02.04	(4x0.25)C	7.0	29	61
CF6.02.25	(25x0.25)C	14.5	111	260
CF6.03.05	(5x0.34)C	7.5	37	90
CF6.05.02	(2x0.5)C	7.0	30	77
CF6.05.05	(5G0.5)C	8.5	49	106
CF6.05.07	(7G0.5)C	10.0	64	127
CF6.05.09	(9G0.5)C	12.0	80	154
CF6.05.12	(12G0.5)C	13.0	98	232
CF6.05.18	(18G0.5)C	15.0	145	286
CF6.05.25	(25G0.5)C	17.5	192	399
CF6.07.03	(3G0.75)C	8.0	46	98
CF6.07.04	(4G0.75)C	8.5	56	113
CF6.07.05	(5G0.75)C	9.0	67	128
CF6.07.07	(7G0.75)C	10.5	87	152
CF6.07.12	(12G0.75)C	14.0	128	266
CF6.07.18	(18G0.75)C	17.5	196	400
CF6.07.25	(25G0.75)C	19.5	265	536
CF6.10.03	(3G1.0)C	8.0	54	107
CF6.10.04	(4G1.0)C	9.0	65	116
CF6.10.05	(5G1.0)C	9.5	77	136
CF6.10.07	(7G1.0)C	12.0	103	205
CF6.10.12	(12G1.0)C	15.0	161	319
CF6.10.18	(18G1.0)C	19.0	245	482
CF6.10.25	(25G1.0)C	21.0	322	595
CF6.15.03	(3G1.5)C	9.0	72	122
CF6.15.04	(4G1.5)C	9.5	88	155
CF6.15.05	(5G1.5)C	10.5	105	177
CF6.15.07 ¹⁷⁾	(7G1.5)C	12.5	146	258
CF6.15.12	(12G1.5)C	17.0	225	375
CF6.15.18	(18G1.5)C	21.0	345	581
CF6.15.25	(25G1.5)C	24.0	462	865
CF6.25.03	(3G2.5)C	10.5	107	180
CF6.25.04	(4G2.5)C	11.5	131	222

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. G = with green-yellow earth core x = without earth core

Example image

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Control cable (Class 5.5.2.1) • For heavy duty applications • PVC outer jacket • Shielded • Oil-resistant • Flame retardant

Electrical information			
Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	°C Max. current rating at 30 °C	
[mm ²]	[Ω/km]	[A]	
0.25	79	4	
0.34	57	5	
0.5	39	8	
0.75	26	12	
1	19.5	15	
1.5	13.3	18	
2.5	8	26	

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.



Guarantee





CALUS

NFPA

EAC

REACH

RoHS

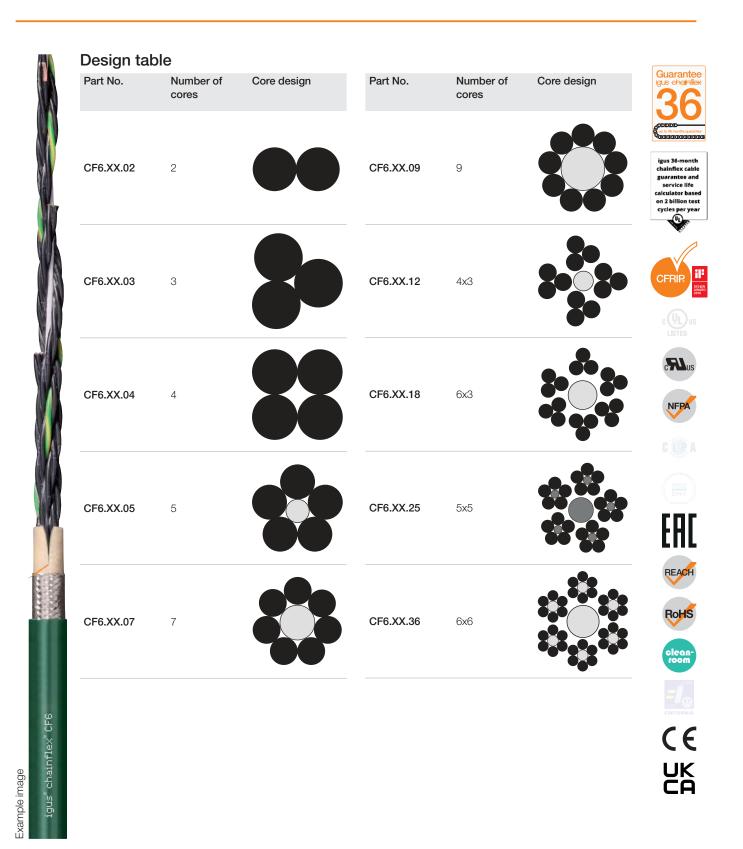
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Control cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant





Control cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

Colour code in accordance with DIN 47100

Conductor no.	Colours according to DIN ISO 47100	Conductor no.	Colours according to DIN ISO 47100
1	white	19	white-pink
2	brown	20	pink-brown
3	green	21	white-blue
4	yellow	22	brown-blue
5	grey	23	white-red
6	pink	24	brown-red
7	blue	25	white-black
8	red	26	brown-black
9	black	27	grey-green
10	violet	28	yellow-grey
11	grey-pink	29	pink-green
12	red-blue	30	yellow-pink
13	white-green	31	green-blue
14	brown-green	32	yellow-blue
15	white-yellow	33	green-red
16	yellow-brown	34	yellow-red
17	white-grey	35	green-black
18	grey-brown	36	yellow-black











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