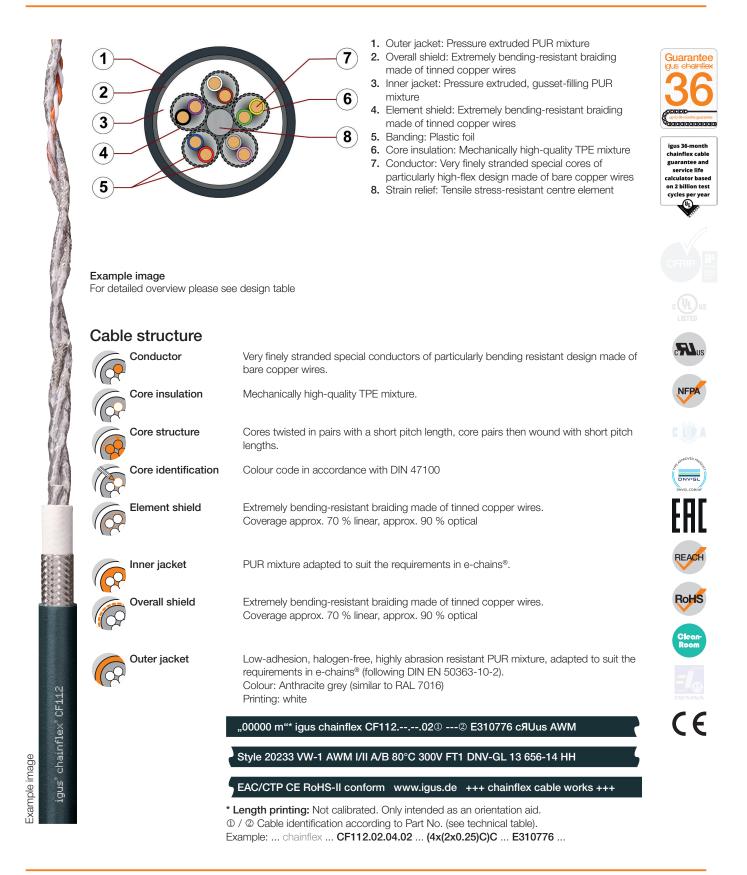


Data cable (Class 6.5.3.1) ● For extremely heavy duty applications ● PUR outer jacket ● Double shielded ● twisted pair ● Oil resistant and coolant-resistant ● Flame retardant

- PVC and halogen-free
 Notch-resistant
 Hydrolysis and microbe-resistant
- PVC and halogen-free Notch-resistant Hydrolysis and microbe-resistant





Guarantee

chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

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Data cable (Class 6.5.3.1) • For extremely heavy duty applications • PUR outer jacket

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	Dynamic information				
	Bend radius	e-chain® linear flexible fixed	minimum 10 x d minimum 8 x d minimum 5 x d		
	*C Temperature	e-chain [®] linear flexible fixed	-25 °C up to +80 °C -40 °C up to +80 °C (following DIN EN 60811-504) -50 °C up to +80 °C (following DIN EN 50305)		
N.	v max.	unsupported gliding	10 m/s 5 m/s		
	a max.	80 m/s²			
1	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	5 million	7.5 million	10 million	
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	
-25/-15	12.5	13.5	14.5	
-15/+70	10	11	12	
+70/+80	12.5	13.5	14.5	

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

Nominal voltage

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

Testing voltage

1500 V (following DIN EN 50395)

Example image

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	Prop	erties and appr	ovals	())
	-UV-	UV resistance	High	Guarantee Igus chainflex
	oil	Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3	500 podda gagagagagagagagagagagagagagagagagaga
		Offshore	MUD-resistant following NEK 606 - status 2009	igus 36-month chainflex cable guarantee and
		Flame retardant	According to IEC 60332-1-2, FT1, VW-1	service life calculator based on 2 billion test cycles per year
A		Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	
	hal	Halogen-free	Following DIN EN 60754	
	The second	UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
	c RLus	UL/CSA AWM	See data sheet for details ► www.igus.eu/CF112	
1	NFPA	NFPA	Following NFPA 79-2018, chapter 12.9	NEPA
	ANV-GL	DNV-GL	Type approval certificate No. 13 656-14 HH	
		EAC	Certificate No. RU C-DE.ME77.B.00300/19 (TR ZU)	Leven over a contraction of the
1	REACH	REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
	RoHS	Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	tHL
and the second	Clean- Room	Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF77. UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1	REACH
	CE	CE	Following 2014/35/EU	Rohs

Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm ²]	Number of cores	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.25	4-10	10493	20233	300	80
0.5	4-12	10493	20233	300	80

Example image

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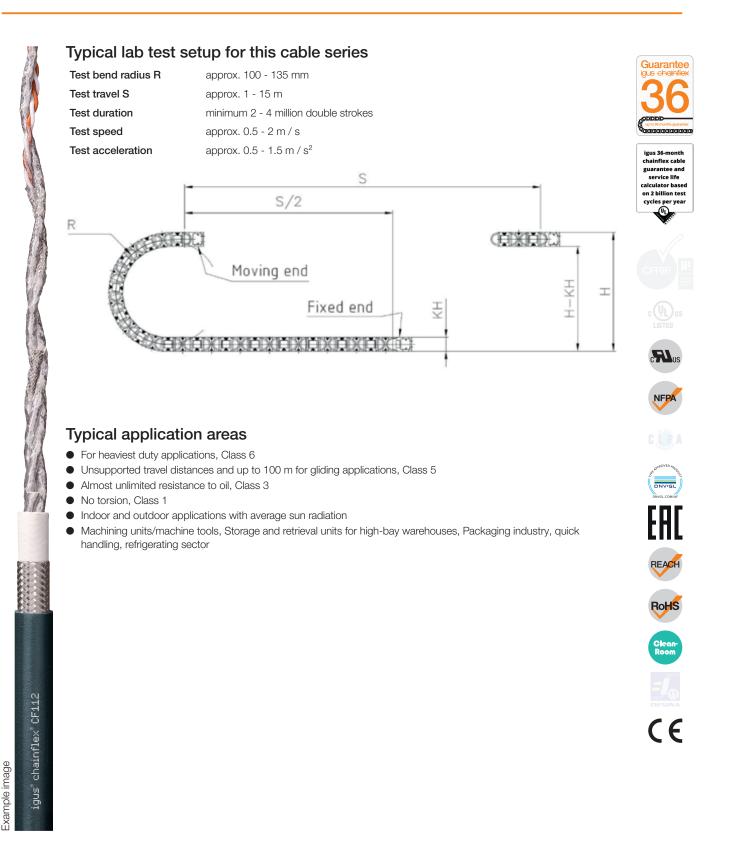
CE



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Technical tables:

Mechanical information

Mechanical informat	.011			
Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CF112.02.02.02	(2x(2x0.25)C)C	9.5	57	118
CF112.02.03.02	(3x(2x0.25)C)C	10.0	71	133
CF112.02.04.02	(4x(2x0.25)C)C	11.0	78	153
CF112.02.05.02	(5x(2x0.25)C)C	11.5	99	178
CF112.05.02.02	(2x(2x0.5)C)C	11.5	75	163
CF112.05.04.02	(4x(2x0.5)C)C	13.0	117	217
CF112.05.06.02	(6x(2x0.5)C)C	14.5	160	285

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



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Electrical information

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Max. current rating at 30 °C [A]
0.25	79	5
0.5	39	10

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

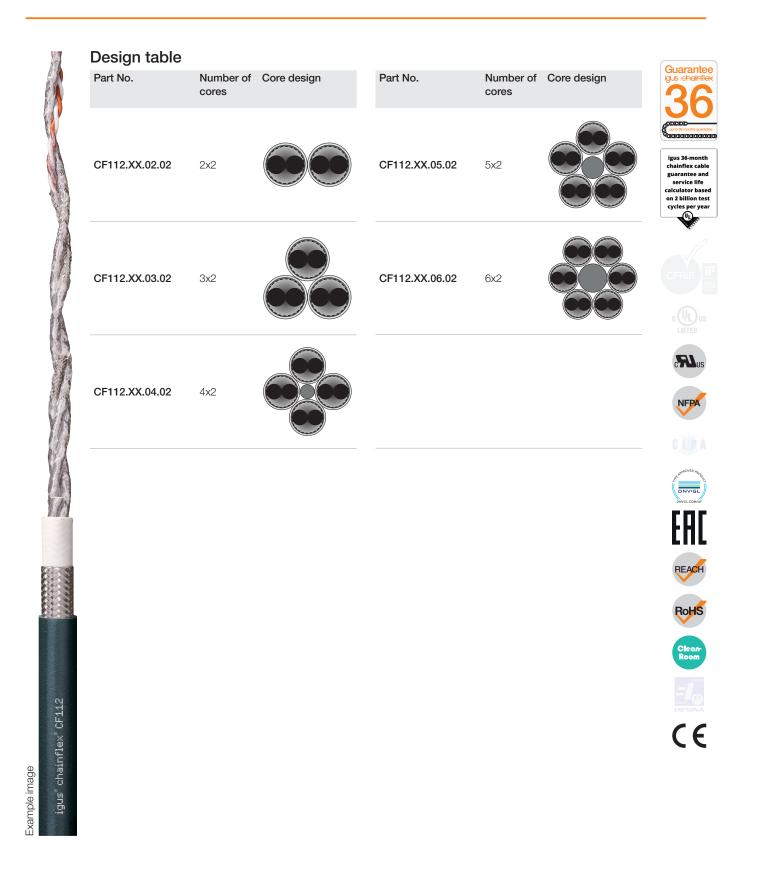
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Data sheet chainflex® CF112



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Conductor no.	Colours according to DIN ISO 47100	Conductor no.	Colours according to DIN ISO 47100	Co
1	white	22	brown-blue	43
2	brown	23	white-red	44
3	green	24	brown-red	45
1	yellow	25	white-black	46
5	grey	26	brown-black	47
6	pink	27	grey-green	48
7	blue	28	yellow-grey	49
8	red	29	pink-green	50
9	black	30	yellow-pink	51
10	violet	31	green-blue	52
11	grey-pink	32	yellow-blue	53
12	red-blue	33	green-red	54
13	white-green	34	yellow-red	55
14	brown-green	35	green-black	56
15	white-yellow	36	yellow-black	57
16	brown-yellow	37	grey-blue	58
17	white-grey	38	pink-blue	59
18	brown-grey	39	grey-red	60
19	white-pink	40	pink-red	61
20	white-brown	41	grey-black	
21	white-blue	42	pink-black	

Conductor no.	Colours according to DIN ISO 47100
43	blue-black
44	red-black
45	white-brown-black
46	yellow-green-black
47	grey-pink-black
48	red-blue-black
49	white-green-black
50	brown-green-black
51	white-yellow-black
52	yellow-brown-black
53	white-grey-black
54	grey-brown-black
55	white-pink-black
56	pink-brown-black
57	white-blue-black
58	brown-blue-black
59	white-red-black
60	brown-red-black
61	black-white





Example image

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