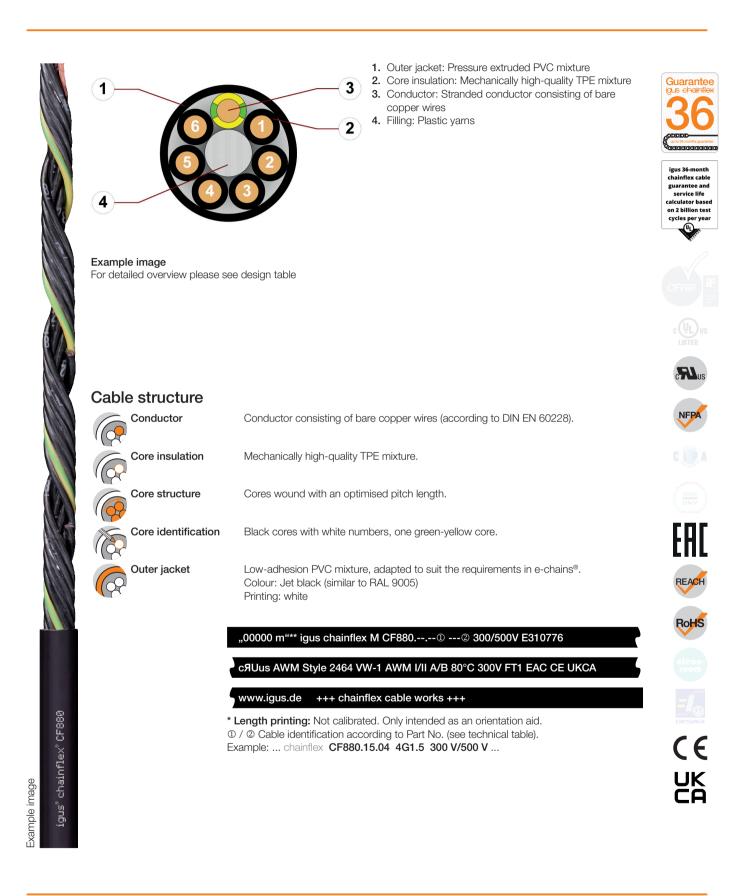


Control cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Flame retardant



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Data sheet chainflex® CF880



Guarantee

igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test

F1,

NFP/

REACH

RoHS

CE

2/7

cycles er yea

Control cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Flame retardant

	Dynamic information			
	Bend radius	e-chain [®] linear flexible fixed	minimum 12.5 x d minimum 10 x d minimum 7 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	3 m/s	
	a max.	20 m/s ²		
	Travel distance	Unsupported travel d	istances up to 10 m, Class 1	

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	1 million	3 million	5 million	
Temperature, from/to [°C] R min. [factor x d]		R min. [factor x d]	R min. [factor x d]	
+5/+15	15	16	17	
+15/+60	12.5	13.5	14.5	
+60/+70	15	16	17	

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	300/500 V
	300 V (following UL)

Testing voltage

2000 V (following DIN EN 50395)

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Data sheet chainflex® CF880



Guarantee

igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

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Properties and approvals						
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame					
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 - status 1992)	00				
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"					
UL/CSA AWM	Details see table UL AWM					
NFPA NFPA	Following NFPA 79-2018, chapter 12.9					
FAL	Certificate No. RU C-DE.ME77.B.00300/19					
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)					
RoHS Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)					
CECE	Following 2014/35/EU					
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)					

Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm ²]	Number of cores	UL style core insultation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.5	2-25	10493	2464	300	80
0.75	2-25	10493	2464	300	80
1	2-25	10493	2464	300	80
1.5	2-25	10493	2464	300	80
2.5	3-12	10493	2464	300	80

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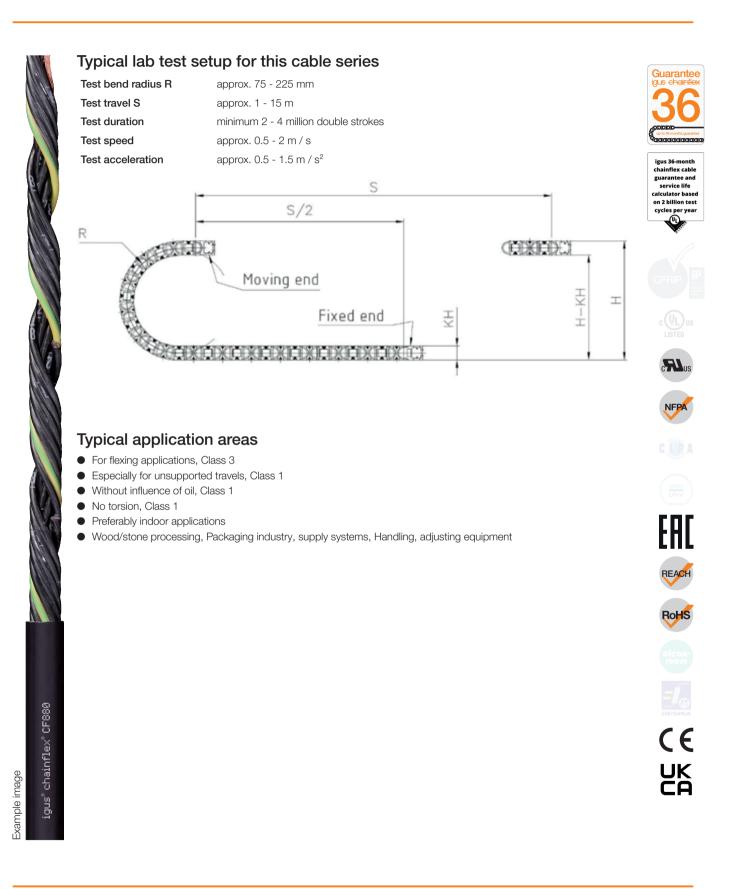
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3/7



Control cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Flame retardant



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Guarantee

Control cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Flame retardant

Technical tables:

Mechanical information

Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF880.05.02	2x0.5	5.0	11	32
CF880.05.03	3G0.5	5.5	16	37
CF880.05.04	4G0.5	6.0	21	46
CF880.05.05	5G0.5	6.5	26	55
CF880.05.07	7G0.5	7.5	37	73
CF880.05.12	12G0.5	8.5	63	108
CF880.05.18	18G0.5	10.0	94	158
CF880.05.25	25G0.5	12.0	128	227
CF880.07.02	2x0.75	5.5	16	40
CF880.07.03	3G0.75	6.0	24	49
CF880.07.04	4G0.75	6.5	32	61
CF880.07.05	5G0.75	7.0	40	73
CF880.07.07	7G0.75	8.0	56	99
CF880.07.12	12G0.75	10.0	94	152
CF880.07.18	18G0.75	11.5	140	167
CF880.07.25	25G0.75	13.5	194	284
CF880.10.02	2x1.0	6.0	21	48
CF880.10.03	3G1.0	6.5	32	58
CF880.10.04	4G1.0	7.0	42	62
CF880.10.05	5G1.0	7.5	52	86
CF880.10.07	7G1.0	8.5	73	116
CF880.10.12	12G1.0	10.5	124	182
CF880.10.18	18G1.0	12.5	186	278
CF880.10.25	25G1.0	15.0	258	393
CF880.15.02	2x1.5	6.5	32	64
CF880.15.03	3G1.5	7.0	47	82
CF880.15.04	4G1.5	7.5	63	104
CF880.15.05	5G1.5	8.5	78	120
CF880.15.07	7G1.5	10.0	109	167
CF880.15.12	12G1.5	12.0	186	260
CF880.15.18	18G1.5	14.5	279	370
CF880.15.25	25G1.5	17.5	387	514
CF880.25.03	3G2.5	8.5	121	136
CF880.25.04	4G2.5	9.0	103	150
CF880.25.05	5G2.5	10.0	129	184
CF880.25.07	7G2.5	12.0	181	252
CF880.25.12	12G2.5	15.0	327	414



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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Example image

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Guarantee

Control cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Flame retardant

	Electrical information					
	Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Max. current rating at 30 °C			
	[mm ²]	[Ω/km]	[A]			
	0.5	39	10			
	0.75	26	13			
	1	19.5	15			
	1.5	13.3	19			
	2.5	8	27			

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



Example image

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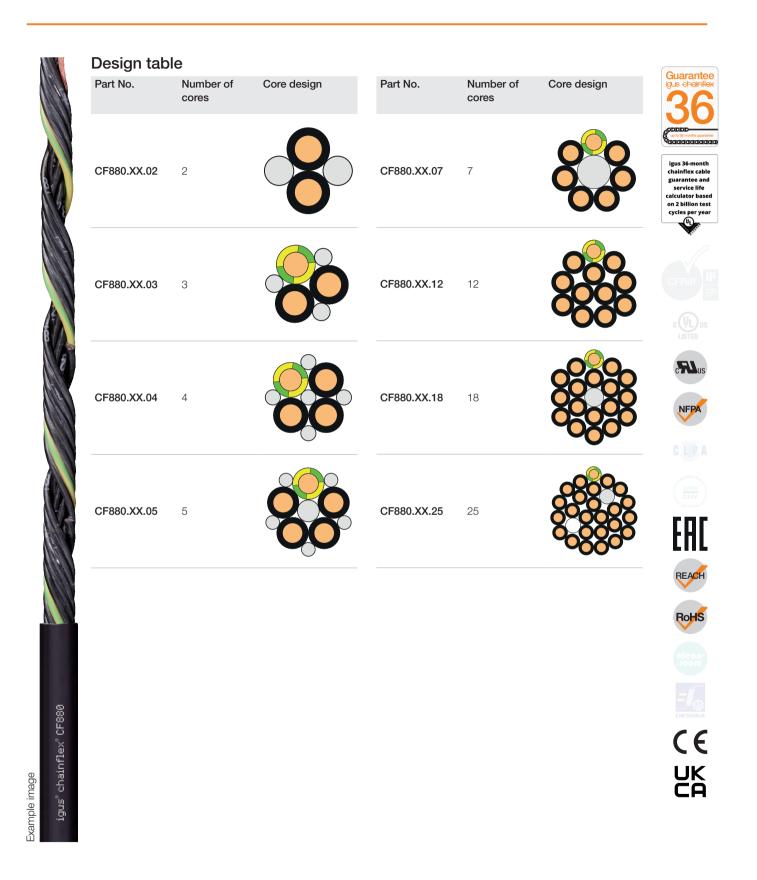
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