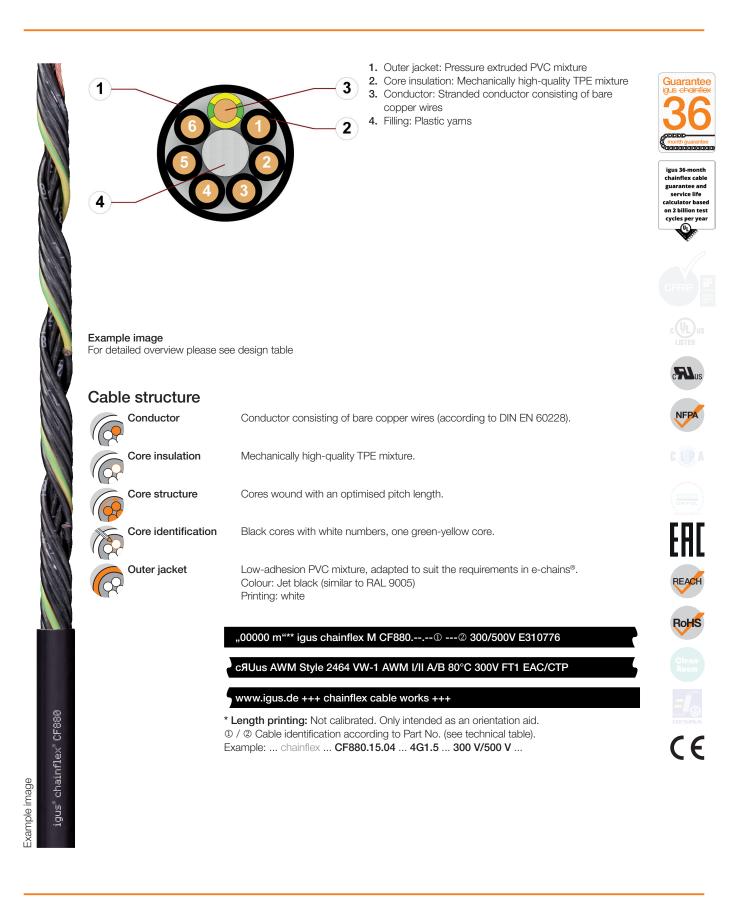
### Data sheet chainflex<sup>®</sup> CF880



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



# Data sheet chainflex<sup>®</sup> CF880



Guarantee

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

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	
Temperature	e-chain <sup>®</sup> 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 <sup>2</sup>		
Travel distance	Unsupported travel distances 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)

Example image

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## **Data sheet** chainflex® CF880



NFPA

EAC

REACH

RoHS

CE

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Flame retardant	According to IEC 60332-1-2, FT1, VW-1	Guaran Igus chair
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	SDDDD month guar
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	igus 36-mo chainflex ca guarantee
	See table UL/CSA AWM for details	service li calculator b on 2 billion cycles per s
NFPA FPA	Following NFPA 79-2018, chapter 12.9	
	Certificate No. RU C-DE.ME77.B.00300/19 (TR ZU)	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	LISTED
CE	Following 2014/35/EU	c771

#### Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm <sup>2</sup> ]	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

igus° chainflex° CF880

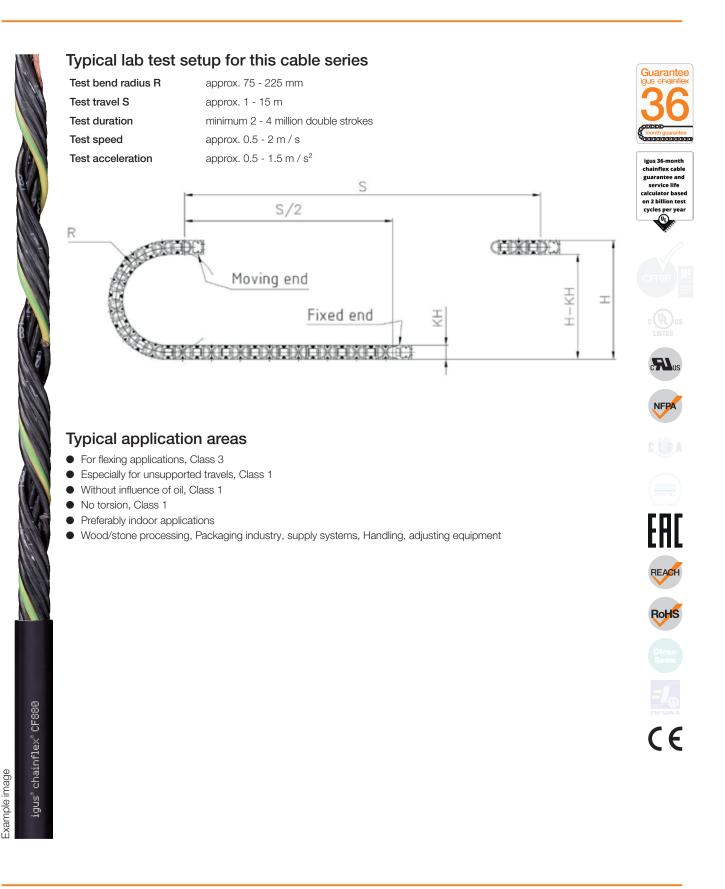
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## **Data sheet** chainflex® CF880



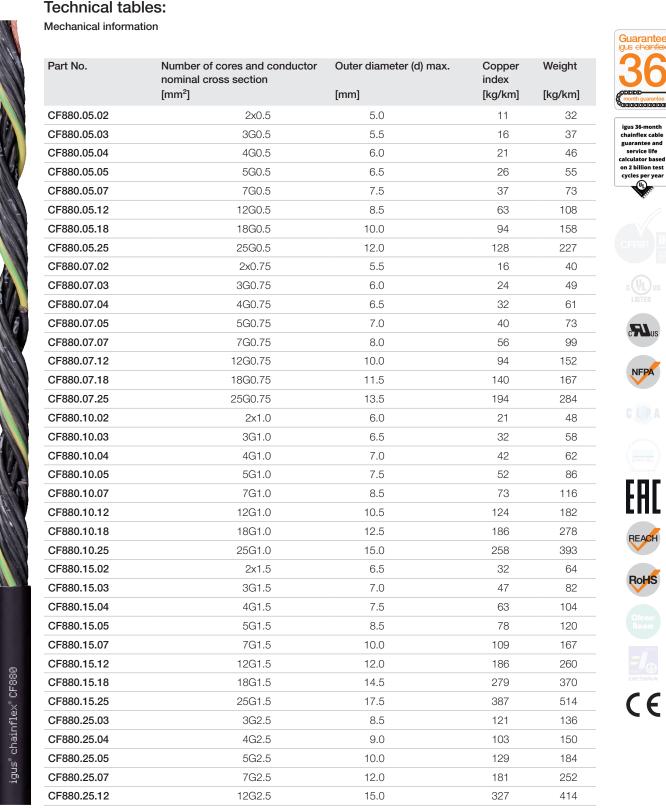
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Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. G = with green-yellow earth core x = without earth core

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Example image

### Data sheet chainflex<sup>®</sup> CF880



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
[mm²]	[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.



Guarantee



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