Data sheet chainflex[®] CF885



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



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Guarantee

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

FLus

NFP

REACH

RoHS

C E

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Dynamic information

Bend radius	e-chain [®] linear flexible fixed	minimum 15 x d minimum 12 x d minimum 8 x d	
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 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	17.5	18.5	19.5
+15/+60	15	16	17
+60/+70	17.5	18.5	19.5

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

600/1000 V (following DIN VDE 0298-3) 1000 V (following UL)

Testing voltage

4000 V (following DIN EN 50395)

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Guarantee

igus 36-month chainflex cable

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

CRUs

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Properties and approvals				
Flame retardant	According to IEC 60332-1-2, FT1, VW-1			
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)			
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"			
	See table UL/CSA AWM for details			
NFPA NFPA	Following NFPA 79-2018, chapter 12.9			
	Certificate No. RU C-DE.ME77.B.00302/19 (TR ZU)			
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)			
Rous Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)			
	Following 2014/35/EU			

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]
1.5	4	10492	2570	1000	80
2.5	4	10492	2570	1000	80
4	4	10492	2570	1000	80
6	4	10492	2570	1000	80
10	4	10492	2570	1000	80
16	4	10492	2570	1000	80

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Example image

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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]
CF885.15.04	4G1.5	8.0	67	105
CF885.25.04	4G2.5	10.0	110	163
CF885.40.04	4G4.0	11.5	175	244
CF885.60.04	4G6.0	13.5	237	360
CF885.100.04	4G10	17.0	412	514
CF885.160.04	4G16	20.0	690	857

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



Guarantee



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CE

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]
1.5	13.3	19
2.5	7.98	27
4	4.95	37
6	3.3	48
10	1.91	69
16	1.21	92

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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