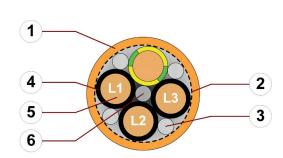
chainflex® CF885



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



- 1. Outer jacket: Pressure extruded PVC mixture
- 2. Banding: Plastic foil
- 3. Filling: Plastic yarns
- 4. Core insulation: Mechanically high-quality, especially low-capacitance TPE mixture
- 5. Conductor: Stranded conductor consisting of bare copper wires
- 6. Strain relief: Plastic centre element



































For detailed overview please see design table

Cable structure



Conductor

Conductor consisting of bare copper wires (according to DIN EN 60228).



Core insulation

Mechanically high-quality, especially low-capacitance TPE mixture.



Core structure

Cores wound with an optimised pitch length.



Core identification

Black cores with white numbers, one green-yellow core. 1. Core: U / L1 / C / L+

- 2. Core: V / L2
- 3. Core: W / L3 / D / L-

Outer jacket

Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.

Colour: Pastel orange (similar to RAL 2003)

Printing: black

"00000 m"* igus chainflex M CF885.--.-- 0 ---- 2 600/1000V E310776

cЯUus AWM Style 2570 VW-1 AWM I/II A/B 80°C 1000V FT1

CE RoHS-II conform www.igus.de

+++ chainflex cable works +++

* Length printing: Not calibrated. Only intended as an orientation aid. ① / ② Cable identification according to Part No. (see technical table). Example: ... chainflex ... CF885.15.04 ... 4G1.5 ... 600/1000V ...

Example image

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Dynamic information



e-chain® linear Bend radius 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



a max.

20 m/s²



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.

Guarantee laus chainflex

guarantee and

Guaranteed service life according to guarantee conditions

Double strokes	1 million	3 million	5 million
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [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)









chainflex® CF885



Guarantee laus chainflex

guarantee and service life

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Properties and approvals

Fla

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)



PFAS-free Use of PFAS-free materials according to the content of the REACH directive

and its rules for the production and processing of chemical substances



Certificate No. V293560: "igus 4-year chainflex cable guarantee and service life

calculator based on 2 billion test cycles per year"



UL/CSA AWM See data sheet for details ▶ www.igus.eu/CF885



NFPA Following NFPA 79-2018, chapter 12.9



REACH In accordance with regulation (EC) No. 1907/2006 (REACH)



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 [mm²]	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



















TO Software Price

Example image

chainflex® CF885



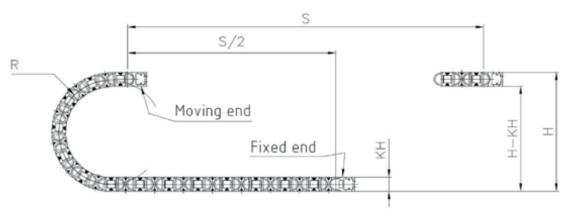
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Typical lab test setup for this cable series

Test bend radius R approx. 75 - 225 mm
Test travel S approx. 1 - 15 m

Test duration minimum 2 - 4 million double strokes

Test speed approx. 0.5 - 2 m/sTest acceleration approx. $0.5 - 1.5 \text{ m/s}^2$



Typical application areas

- For flexing applications, Class 3
- Especially for unsupported travels, Class 1
- Without influence of oil, Class 1
- No torsion, Class 1
- Preferably indoor applications
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment





























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Example image

chainflex® CF885



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

Technical tables:

Mechanical information

[mm²]		[mm]	index [kg/km]	[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

on 2 billion test cycles per year

guarantee and

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

























Electrical information

Conductor nominal cross section [mm²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Max. current rating at 30 °C
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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Motor cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Flame retardant

	Design table		
	Part No.	Number of cores	Core design
	CF885.XX.04	4	L1 L3
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