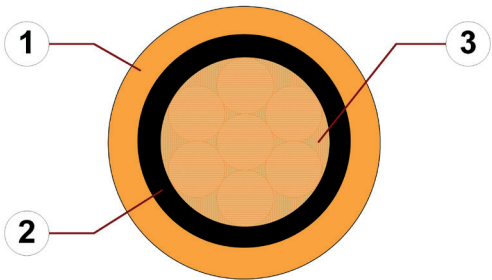


Data sheet

chainflex® CF885



Spindle cable/Single core (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket
● Flame retardant



- 1. Outer jacket: Pressure extruded PVC mixture
- 2. Core insulation: Mechanically high-quality PVC mixture
- 3. Conductor: Conductor consisting of bare copper wires



Example image
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 PVC mixture.
	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---① ----② 600/1000V E310776

cRUus AWM Style 10107 VW-1 AWM I/II A/B 80°C 600V FT1 EAC/CTP

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 **CF885.40.01 1x4.0 600/1000V**

Example image

igus® chainflex® CF885

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
Data sheet

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Spindle cable/Single core (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket
● Flame retardant

Dynamic information

	Bend radius	e-chain® linear flexible fixed	min. 15 x d min. 12 x d min. 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 travels 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) 600 V (following UL)
	Testing voltage	4000 V (following DIN EN 50395)



Example image

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Data sheet

chainflex® CF885



Spindle cable/Single core (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket
● Flame retardant

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“
	UL/CSA AWM	See table UL/CSA AWM for details
	NFPA	Following NFPA 79-2018, chapter 12.9
	EAC	Certificate No. RU C-DE.ME77.B.00302/19 (TR ZU)
	REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
	Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
	CE	Following 2014/35/EU



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



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]
4	1	10107	-	600	80
6	1	10107	-	600	80
10	1	10107	-	600	80
16	1	10107	-	600	80
25	1	10107	-	600	80
35	1	10107	-	600	80
50	1	10107	-	600	80
70	1	10107	-	600	80
95	1	10107	-	600	80

Example image



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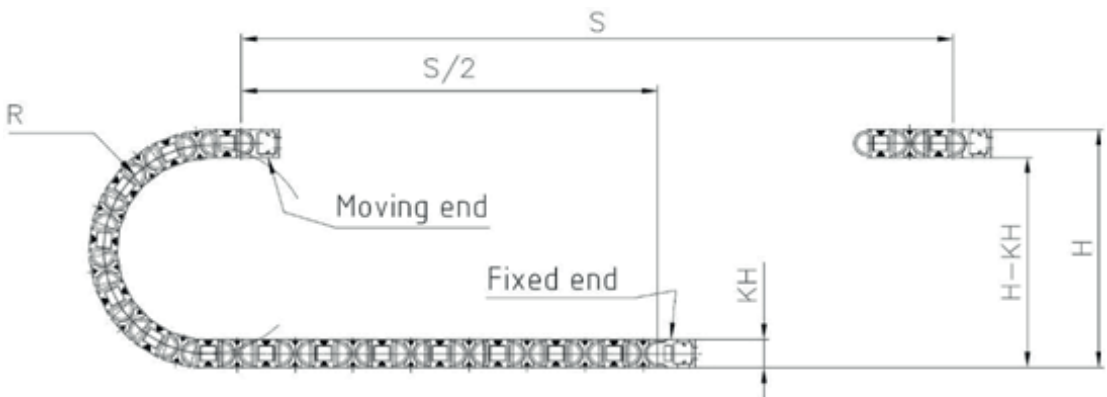
chainflex® CF885



Spindle cable/Single core (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket
● Flame retardant

Typical lab test setup for this cable series

Test bend radius R	approx. 75 - 225 mm
Test travel S/S_2	approx. 1 - 15 m
Test duration	minimum 2 - 4 million double strokes
Test speed	approx. 0.5 - 2 m / s
Test acceleration	approx. 0.5 - 1.5 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



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



Example image



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Data sheet

chainflex® CF885



Spindle cable/Single core (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 [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF885.40.01	1x4.0	7.5	41	78
CF885.60.01	1x6.0	8.0	61	100
CF885.100.01	1x10	9.5	100	157
CF885.160.01	1x16	11.5	159	237
CF885.250.01	1x25	12.5	248	325
CF885.350.01	1x35	15.0	347	474
CF885.500.01	1x50	16.5	495	644
CF885.700.01 ¹⁾	1x70	18.5	686	844
CF885.950.01 ¹⁾	1x95	20.5	931	1024

¹⁾ Phase-out model

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

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 [A]
4	4.95	41
6	3.3	53
10	1.91	74
16	1.21	99
25	0.78	131
35	0.56	162
50	0.39	202
70	0.28	250
95	0.21	301

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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