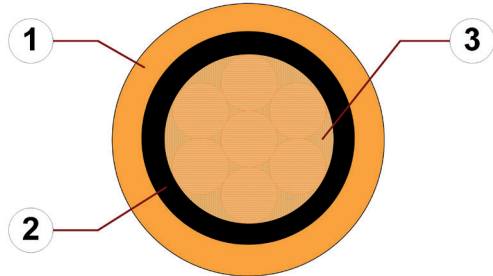


# Data sheet

## 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

	<b>Conductor</b>	Conductor consisting of bare copper wires (according to DIN EN 60228).
	<b>Core insulation</b>	Mechanically high-quality PVC mixture.
	<b>Outer jacket</b>	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






# Data sheet

## chainflex® CF885



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

### Dynamic information

	<b>Bend radius</b>	<b>e-chain® linear</b> <b>flexible</b> <b>fixed</b>	min. 15 x d min. 12 x d min. 8 x d
	<b>Temperature</b>	<b>e-chain® linear</b> <b>flexible</b> <b>fixed</b>	+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)
	<b>v max.</b>	<b>unsupported</b>	3 m/s
	<b>a max.</b>		20 m/s <sup>2</sup>
	<b>Travel distance</b>		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

	<b>Nominal voltage</b>	600/1000 V (following DIN VDE 0298-3) 600 V (following UL)
	<b>Testing voltage</b>	4000 V (following DIN EN 50395)



Example image

igus® chainflex® CF885


# 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



### Properties and approvals

#### UL/CSA AWM Details

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



# Data sheet

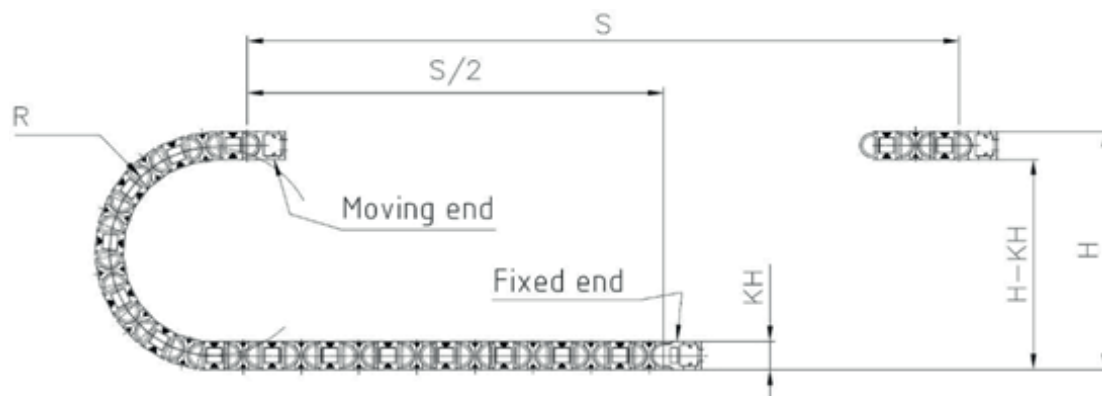
## chainflex® CF885



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 <sub>2</sub>	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 <sup>2</sup>



### 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



# 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 [mm <sup>2</sup> ]	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 <sup>1)</sup>	1x70	18.5	686	844
CF885.950.01 <sup>1)</sup>	1x95	20.5	931	1024

<sup>1)</sup> 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 [mm <sup>2</sup> ]	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.



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



Example image

