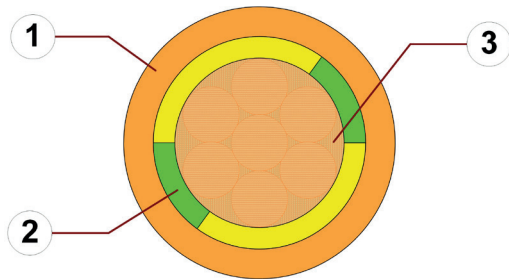


# Data sheet

## chainflex® CF885.PE







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>Core identification</b>	Green-yellow
	<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.PE.--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](http://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.PE.25.01 ... 1G2.5 ... 600/1000V ...



Example image








# Data sheet

## chainflex® CF885.PE



Spindle cable/Single core (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket  
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### Dynamic information

	<b>Bend radius</b>	<b>e-chain® linear</b> <b>flexible</b> <b>fixed</b>	minimum 15 x d minimum 12 x d minimum 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 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

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

Example image



# Data sheet

## chainflex® CF885.PE



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

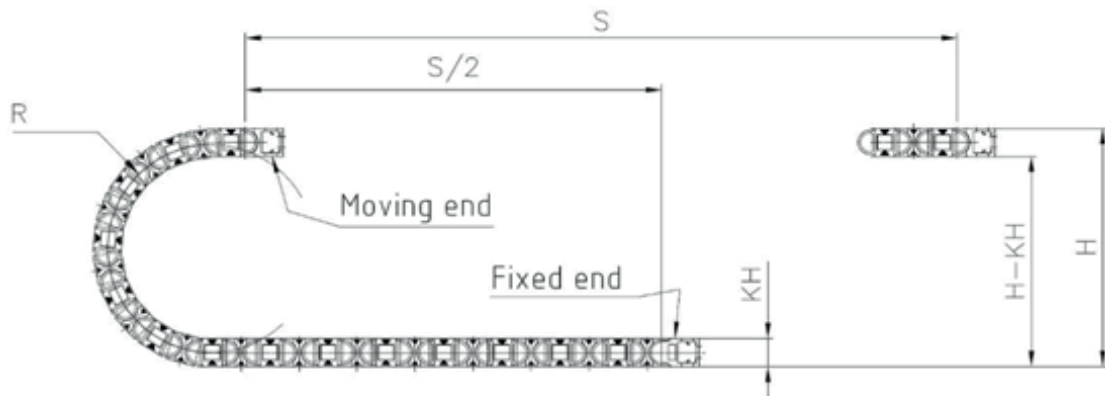
### Properties and approvals

	<b>Flame retardant</b>	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
	<b>Silicone-free</b>	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	<b>UL/CSA</b>	Style 10107, 600 V, 80 °C
	<b>NFA</b>	Following NFPA 79-2012, chapter 12.9
	<b>EAC</b>	Certificate No. RU C-DE.ME77.B.01561 (TR ZU)
	<b>CTP</b>	Certificate No. C-DE.PB49.B.00450 (Fire protection)
	<b>Lead-free</b>	Following 2011/65/EC (RoHS-II)
	<b>CE</b>	Following 2014/35/EU



### Typical lab test setup for this cable series

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



Example image



# Data sheet

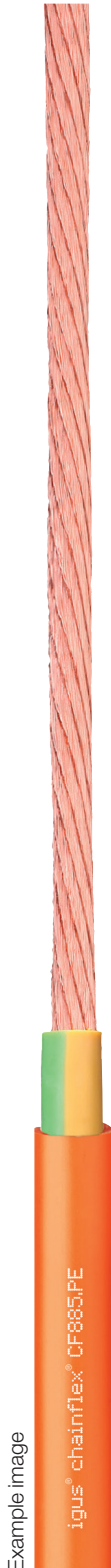
## chainflex® CF885.PE



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

### 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



# Data sheet

## chainflex® CF885.PE



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.PE.25.01	1G2.5	6.5	24	55
CF885.PE.40.01	1G4.0	7.0	39	75
CF885.PE.60.01	1G6.0	8.0	58	97
CF885.PE.100.01	1G10.0	9.5	96	147
CF885.PE.160.01	1G16.0	10.5	154	228
CF885.PE.250.01	1G25.0	12.0	240	328

**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]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
2.5	7.98	26
4	4.95	34
6	3.3	44
10	1.91	61
16	1.21	82
25	0.78	108

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

