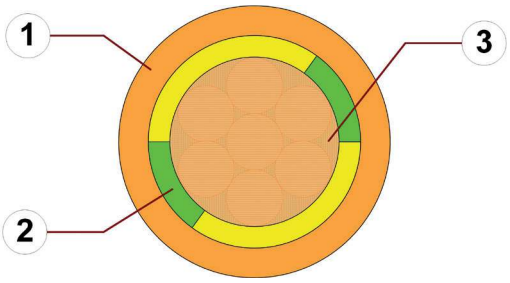
# Data sheet
# chainflex® CF885.PE

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



Example image




**Example image**
For detailed overview please see design table

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

## Cable structure

| | |
|---|---|
| **Conductor** | Conductor consisting of bare copper wires (according to DIN EN 60228). |
| **Core insulation** | Mechanically high-quality PVC mixture. |
| **Core identification** | Green-yellow |
| **Outer jacket** | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.<br>Colour: Pastel orange (similar to RAL 2003)<br>Printing: black |

**„00000 m“* igus chainflex M CF885.PE.--.--① ----② 600/1000V E310776**

**ся Uus AWM Style 10107 VW-1 AWM I/II A/B 80°C 600V FT1**

**CE RoHS-II conform www.igus.eu +++ chainflex cable works +++**

** **Length printing:** Not calibrated. Only intended as an orientation aid.
① / ② Cable identification according to Part No.(see technical table).
Bsp.: ... chainflex ... **CF885.PE.25.01** ... **1G2.5** ... **600/1000V** ...

11/2025

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Example image

## Dynamic information

| | | | |
|---|---|---|---|
| Bend radius | e-chain® linear<br>flexible<br>fixed | minimum 15 x d<br>minimum 12 x d<br>minimum 8 x d |
| Temperature | e-chain® linear<br>flexible<br>fixed | +5°C up to +70°C<br>-5°C up to +70°C (following DIN EN 60811-504)<br>-15°C up to +70°C (following DIN EN 50305) |
| v max. | unsupported | 3m/s |
| a max. | | 20m/s² |
| Travel distance | | Unsupported travels up to 10m, 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. [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 | 600/1000V (following DIN VDE 0298-3)<br>600V (following UL) |
| Testing voltage | 4000V (following DIN EN 50395) |

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## Properties and approvals

| | |
|---|---|
| **Flame-retardant** | According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame |
| **Silicone-free** | Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992) |
| **PTFE-free** | The design of these products does not contain PTFE |
| **UL verified** | Certificate No. V293650: „igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“ |
| **UL/CSA AWM** | Details see table UL/CSA AWM |
| **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) |
| **CE** | Following 2014/35/EU |

## Properties and approvals

**UL/CSA AWM Details**

| Conductor nominal cross section [mm²] | Number of cores | UL style core insultation | UL style outer jacket | UL Voltage Rating [V] | UL Temperature Rating [°C] |
|---|---|---|---|---|---|
| 2.5 | 1 | 10107 | 10107 | 600 | 80 |
| 4 | 1 | 10107 | 10107 | 600 | 80 |
| 6 | 1 | 10107 | 10107 | 600 | 80 |
| 10 | 1 | 10107 | 10107 | 600 | 80 |
| 16 | 1 | 10107 | 10107 | 600 | 80 |
| 25 | 1 | 10107 | 10107 | 600 | 80 |

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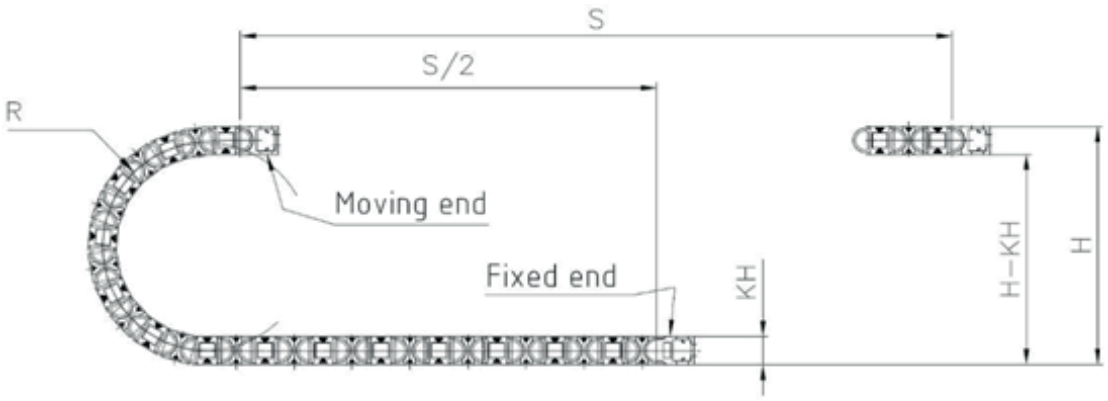
Example image

## Typical lab test setup for this cable series

| | |
|---|---|
| **Test travel S** | 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 / s² |




## 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, feeding, handling, adjusting devices

Guarantee igus chainflex 4 YEARS up to 4 years guarantee

igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

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Example image

## 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.PE.25.01** | 1G2.5 | 6.5 | 25 | 59 |
| **CF885.PE.40.01** | 1G4.0 | 7.5 | 41 | 78 |
| **CF885.PE.60.01** | 1G6.0 | 8.0 | 61 | 100 |
| **CF885.PE.100.01** | 1G10 | 9.5 | 100 | 157 |
| **CF885.PE.160.01** | 1G16 | 11.0 | 159 | 226 |
| **CF885.PE.250.01** | 1G25 | 12.5 | 248 | 325 |

**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] |
|---|---|---|
| 2.5 | 7.98 | 30 |
| 4 | 4.95 | 41 |
| 6 | 3.3 | 53 |
| 10 | 1.91 | 74 |
| 16 | 1.21 | 99 |
| 25 | 0.78 | 131 |

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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igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year