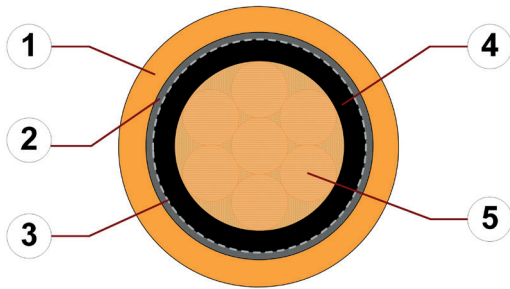


Data sheet

chainflex® CF886







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



1. Outer jacket: Pressure extruded PVC mixture
2. Overall shield: Braiding made of tinned copper wires
3. Banding: Plastic foil
4. Core insulation: Mechanically high-quality PVC mixture
5. 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.
	Overall shield	Braiding made of tinned copper wires. Coverage optical approx. 60 %
	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 CF886.--.--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 **CF886.15.04 (4G1.5)C 600/1000V**



Example image






Data sheet

chainflex® CF886



Spindle cable/Single core (Class 3.1.1.1) • For flexing applications • PVC outer jacket
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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

igus® chainflex® CF886

Data sheet

chainflex® CF886



Spindle cable/Single core (Class 3.1.1.1) • For flexing applications • PVC outer jacket
 • Shielded • 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 ²]	Number of cores	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
16	1	10107		600	80
25	1	10107		600	80
35	1	10107		600	80



Example image

igus® chainflex® CF886

Data sheet

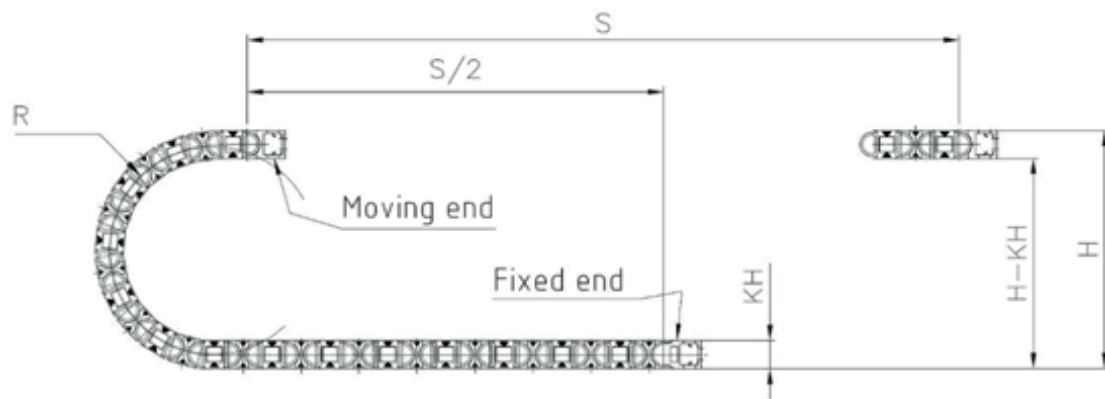
chainflex® CF886



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



Data sheet

chainflex® CF886



Spindle cable/Single core (Class 3.1.1.1) • For flexing applications • PVC outer jacket
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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]
CF886.160.01	(1x16)C	11.5	186	262
CF886.250.01	(1x25)C	13.0	280	363
CF886.350.01	(1x35)C	15.5	394	535

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]
16	1.21	99
25	0.78	131
35	0.56	162

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

