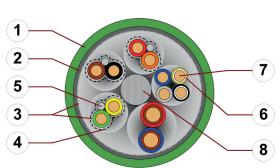
chainflex® CF884



Measuring system cable (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. Shield foil: Aluminium clad plastic foil
- 4. Banding: Plastic foil
- 5. Drain wire: Stranded conductor consisting of tinned copper wires
- 6. Core insulation: Mechanically high-quality TPE mixture
- 7. Conductor: Stranded conductor consisting of bare copper wires
- 8. Strain relief: Plastic centre element































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 TPE mixture.



Core structure

According to measuring system specification.

According to measuring system specification.



Core identification

▶ Product range table



aluminum/polyester tape



Coverage approx. 100 % optical



Braiding made of tinned copper wires. Coverage approx. 60 % optical



Outer jacket

Overall shield

Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.

Colour: Yellow-green (similar to RAL 6018)

Printing: black

"00000 m"* igus chainflex M CF884.---① -----② E310776 cЯUus AWM

Style 2560 VW-1 AWM I/II A/B 60°C 30V 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 CF884.011 (4x(2x0.34)+4x0.5)C E310776 ...

Example image

chainflex® CF884



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Dynamic information



e-chain® linear Bend radius flexible fixed

minimum 15 x d minimum 12 x d minimum 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



a max.

20 m/s²



Travel distance

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



Nominal voltage

30 V (following UL)



500 V Testing voltage





























chainflex® CF884



Measuring system cable (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



Certificate No. RU C-DE.ME77.B.00295/19 (TR ZU)



REACH In accordance with regulation (EC) No. 1907/2006 (REACH)



Lead-free Following 2011/65/EC (RoHS-II/RoHS-III)



Following 2014/35/EU



Properties and approvals

UL/CSA AWM Details

Part No.	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
CF884.001	1589	2560	30	60
CF884.006	1589	2560	30	60
CF884.009	1589	2560	30	60
CF884.011	1589	2560	30	60
CF884.015	1589	2560	30	60
CF884.022	1589	2560	30	60
CF884.028	1589	2560	30	60































chainflex® CF884



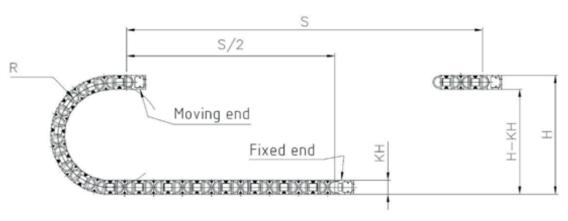
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Typical lab test setup for this cable series

Test bend radius R approx. 75 - 225 mm
Test travel S approx. 1 - 15 m

Test duration minimum 2 - 4 million double strokes

Test speed approx. 0.5 - 2 m/sTest acceleration approx. $0.5 - 1.5 \text{ m/s}^2$



Guarantee gus chainflex 36 month guarantee



























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

Example image

chainflex® CF884



Measuring system cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket • Shielded • 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]
CF884.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	8.5	41	91
CF884.006	(3x(2x0.14)C+(4x0.14) +(4x0.22)+(2x0.5))C	9.0	50	101
CF884.009	(4x(2x0.25)+2x0.5)C	8.0	44	91
CF884.011	(4x(2x0.34)+4x0.5)C	9.5	64	117
CF884.015	(4x(2x0.14)+4x0.5)C	8.5	44	92
CF884.022	((2x0.25)+5x0.5)C	8.0	44	79
CF884.028	(2x(2x0.15)+(2x0.38))C	7.5	41	58

G = with green-yellow earth core x = without earth core





























Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

Electrical information

Conductor nominal cross section [mm²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [$Ω$ /km]	Maximum current rating at 30 °C [A]
0.14	138.0	2.5
0.15	138.0	2.5
0.22	89.0	5
0.25	79.0	5
0.34	58.0	7
0.38	54.0	7
0.5	39.0	10

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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Design table Part No.	Core group	Colour code	Core design
CF884.001	3x(2x0.14)C	green/yellow, black/brown, red/orange	
	4x0.14	grey, blue, white-yellow, white-black	
	2x0.5	brown-red, brown-blue	
	3x(2x0.14)C	green/yellow, black/brown, red/orange	
	4x0.14	grey, blue, white-yellow, white-black	
CF884.006	4x0.22	brown-yellow, brown-grey, green-black, green-red	
	2x0.5	brown-red, brown-blue	
CF884.009	(4x(2x0.25)	brown/green, blue/violet, grey/pink, red/ black	88
	2x0.5)C	white, brown	
CF884.011	4x(2x0.34)	black/brown, red/orange, yellow/green, blue/ violet	080
	4x0.5	blue-white, black-white, red-white, yellow- white	
CF884.015	4x(2x0.14)	brown/green, yellow/violet, grey/pink, red/ black	080
	4x0.5	blue, white, brown-green, white-green	O
CF884.022	2x0.25	white, brown	
	5x0.5	green, yellow, grey, pink, blue	
CF884.028	2x(2x0.15)	green/yellow, pink/blue	
	2x0.38	red/black	8

Example image