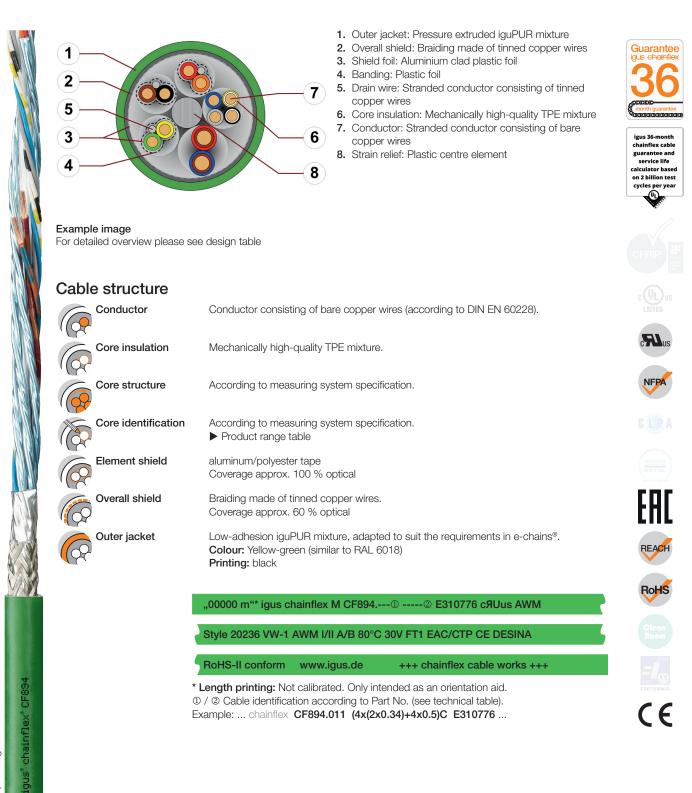
# Data sheet chainflex<sup>®</sup> CF894



Measuring system cable (Class 3.1.3.1) ● For flexing applications ● iguPUR outer jacket ● Oil-resistant ● Shielded ● Flame retardant



Example image

## Data sheet chainflex<sup>®</sup> CF894



Guarantee

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

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#### Dynamic information

Bend radius	e-chain® linear flexible fixed	minimum 15 x d minimum 12 x d minimum 8 x d
*C Temperature	e-chain <sup>®</sup> linear flexible fixed	-20 °C up to +80 °C -40 °C up to +80 °C (following DIN EN 60811-504) -50 °C up to +80 °C (following DIN EN 50305)
v max.	unsupported	3 m/s
a max.	20 m/s <sup>2</sup>	
Travel distance	Unsupported travel d	istances 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]
-20/-10	17.5	18.5	19.5
-10/+70	15	16	17
+70/+80	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**

L	Nominal voltage
Ϋ́υ	

50 V 30 V (following UL)

Testing voltage

voltage 500 V

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

**CAL**US

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EAC

REACH

RoHS

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Properties and appr	ovals	C
UV resistance	Medium	*
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3	Cido C
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)	с с
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
	See table UL/CSA AWM for details	
NFPA NFPA	Following NFPA 79-2018, chapter 12.9	
FALEAC	Certificate No. RU C-DE.ME77.B.00295/19 (TR ZU)	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
RoHS Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	
CECE	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]
CF894.001	1589	20236	30	80
CF894.006	1589	20236	30	80
CF894.009	1589	20236	30	80
CF894.011	1589	20236	30	80
CF894.015	1589	20236	30	80
CF894.022	1589	20236	30	80
CF894.028	1589	20236	30	80

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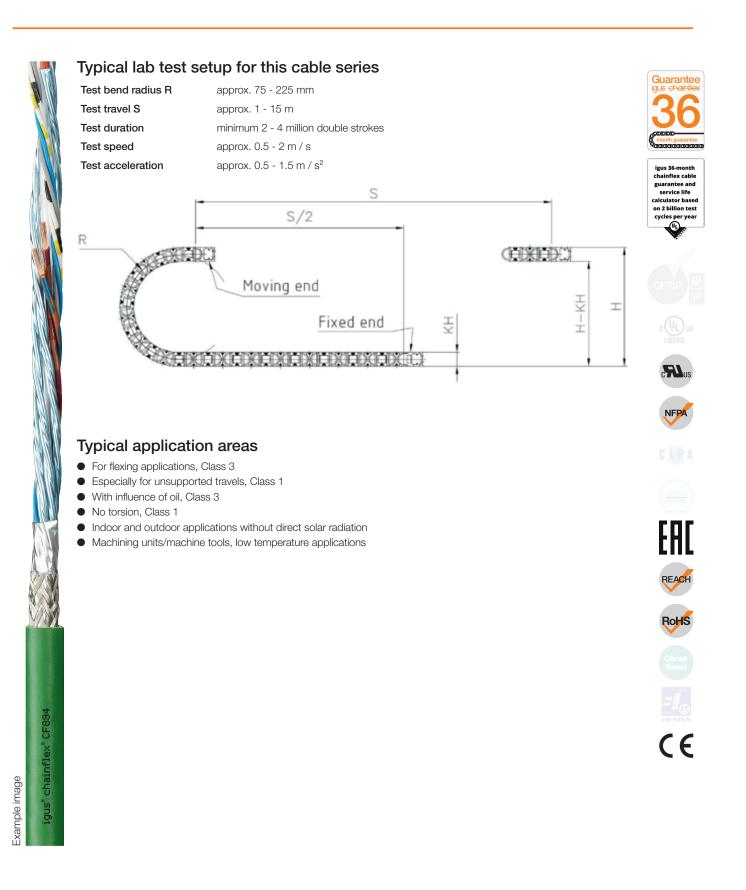
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Mechanical information
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Mechanical Information				
Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF894.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	8.5	41	80
CF894.006	(3x(2x0.14)C+(4x0.14) +(4x0.22)+(2x0.5))C	9.0	50	105
CF894.009	(4x(2x0.25)+2x0.5)C	8.0	44	80
CF894.011	(4x(2x0.34)+4x0.5)C	9.5	64	126
CF894.015	(4x(2x0.14)+4x0.5)C	8.5	44	84
CF894.022	((2x0.25)+5x0.5)C	8.0	44	78
CF894.028	(2x(2x0.15)+(2x0.38))C	7.5	41	57

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



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Electrical information

Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Maximum current rating at 30 °C
[mm <sup>2</sup> ]	[Ω/km]	[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
arrio.	3x(2x0.14)C	green/yellow, black/brown, red/orange	
CF894.001	4x0.14	grey, blue, white-yellow, white-black	
	2x0.5	brown-red, brown-blue	
	3x(2x0.14)C	green/yellow, black/brown, red/orange	
CF894.006	4x0.14	grey, blue, white-yellow, white-black	
1094.000	4 x 0.22	brown-yellow, brown-grey, green-black, green-red	
	2x0.5	brown-red, brown-blue	000
CF894.009 —	4x(2x0.25)	brown/green, blue/violet, grey/pink, red/black	88
	2x0.5	white/brown	88
CF894.011	4x(2x0.34)	black/brown, red/orange, yellow/green, blue/violet	80
	4x0.5	blue-white, black-white, red-white, yellow-white	
	4x(2x0.14)	brown/green, yellow/violet, grey/pink, red/black	080
CF894.015 —	4x0.5	blue, white, brown-green, white-green	
CF894.022 —	2x0.25	white, brown	
	5x0.5	green, yellow, grey, pink, blue	
	2x(2x0.15)	green/yellow, pink/blue	
CF894.028 —	2x0.38	red/black	

#### 09/2020

Example image