

# Motor cable | iguPUR | chainflex® CF895

- 36** 5 million Guaranteed double strokes
- 15 x d** Bend radius, e-chain®
- 10 m** Travel distance, e-chain®

- For flexing applications
- iguPUR outer jacket
- Oil-resistant
- Flame-retardant

## Dynamic information

<b>Bend radius</b>	<b>e-chain® linear</b>	minimum 15 x d
	<b>flexible</b>	minimum 12 x d
	<b>fixed</b>	minimum 8 x d
<b>Temperature</b>	<b>e-chain® linear</b>	-20 °C up to +80 °C
	<b>flexible</b>	-40 °C up to +80 °C (following DIN EN 60811-504)
	<b>fixed</b>	-50 °C up to +80 °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 travels up to 10 m, Class 1

## Cable structure

<b>Conductor</b>	Conductor consisting of bare copper wires (according to DIN EN 60228).
<b>Core insulation</b>	Mechanically high-quality, especially low-capacitance TPE mixture.
<b>Core structure</b>	Cores wound with an optimised pitch length.
<b>Core identification</b>	Black cores with white numbers, one green-yellow core. 1. Core: U / L1 / C / L+ 2. Core: V / L2 3. Core: W / L3 / D / L-
<b>Outer jacket</b>	Low-adhesion iguPUR mixture, adapted to suit the requirements in e-chains®. Colour: Pastel orange (similar to RAL 2003)

## Electrical information

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

## Properties and approvals

<b>UV resistance</b>	Medium
<b>Oil resistance</b>	Oil-resistant (following DIN EN 50363-10-2), Class 3
<b>Flame retardant</b>	According to IEC 60332-1-2, FT1, VW-1

Basic requirements  
Travel distance  
Oil resistance  
Torsion

low	1	2	3	4	5	6	7	highest
unsupported	1	2	3	4	5	6	7	≥ 400 m
none	1	2	3	4	highest			
none	1	2	3	4	±360°			

## Class 3.1.3.1

- 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“  
See data sheet for details ► [www.igus.eu/CF895](http://www.igus.eu/CF895)
- UL/CSA AWM**
- 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

## Guaranteed service life (details see page 26-27)

Double strokes* Temperature, from/to [°C]	1 million	3 million	5 million
	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

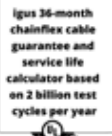
\* Higher number of double strokes? Service life calculation online ► [www.igus.eu/chainflexlife](http://www.igus.eu/chainflexlife)

## Typical mechanical application areas

- For flexing applications, Class 3
- Especially for unsupported travels, Class 1
- With influence of oil, Class 3
- Indoor and outdoor applications without direct sun radiation
- Machining units/machine tools, low temperature applications

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]
CF895.15.04	4G1.5	8.0	67	101
CF895.25.04	4G2.5	10.0	110	153
CF895.40.04	4G4.0	11.5	175	239
CF895.60.04	4G6.0	13.5	262	353
CF895.100.04	4G10	17.0	436	543
CF895.160.04	4G16	20.0	653	824

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



**Guarantee**  
igus chainflex

# 36

month guarantee

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

EPLAN download, configurators ► [www.igus.eu/CF895](http://www.igus.eu/CF895)

36 month guarantee ... 1,354 types from stock ... no cutting charges



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