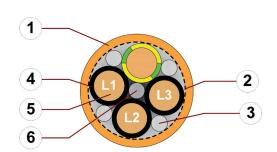
# chainflex® CF895



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



- 1. Outer jacket: Pressure extruded iguPUR mixture
- 2. Banding: Plastic foil
- 3. Filling: Plastic yarns
- 4. Core insulation: Mechanically high-quality, especially low-capacitance TPE mixture
- 5. Conductor: Stranded conductor consisting of bare copper wires
- 6. 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, especially low-capacitance TPE mixture.



Core structure

Cores wound with an optimised pitch length.



Core identification

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-

Outer jacket

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

Colour: Pastel orange (similar to RAL 2003)

Printing: black

"00000 m"\* igus chainflex M CF895.--.- 0 --- 2 600/1000V E310776

cяUus AWM Style 20940 AWM I/II A/B 80°C 1000V 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 ... CF895.15.04 ... 4G1.5 ... 600/1000V ...

Example image

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#### Dynamic information



e-chain® linear -20 °C up to +80 °C Temperature -40 °C up to +80 °C (following DIN EN 60811-504) flexible fixed -50 °C up to +80 °C (following DIN EN 50305)

v max. unsupported

20 m/s<sup>2</sup> a max.

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]
-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**

Nominal voltage 600/1000 V (following DIN VDE 0298-3) 1000 V (following UL)

4000 V (following DIN EN 50395) Testing voltage





























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### Properties and approvals

-uv-

UV resistance Medium



Oil resistance Oil-resistant (following DIN EN 50363-10-2), Class 3



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

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

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)







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 insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
1.5	4	10492	20940	1000	80
2.5	4	10492	20940	1000	80
4	4	10492	20940	1000	80
6	4	10492	20940	1000	80
10	4	10492	20940	1000	80
16	4	10492	20940	1000	80



























Example image

# chainflex® CF895



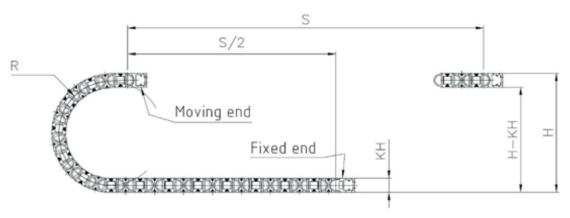
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### Typical lab test setup for this cable series

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.  $0.5 - 1.5 \text{ m/s}^2$ 



# Typical application areas

- For flexing applications, Class 3
- Especially for unsupported travels, Class 1
- With influence of oil, Class 3
- No torsion, Class 1
- Indoor and outdoor applications without direct solar radiation
- Machining units/machine tools, low temperature applications





























Example image

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

#### **Technical tables:**

#### Mechanical information

**Electrical information** 

Part No.	Number of cores and conductor nominal cross section [mm²]	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 <math>x = without earth core





























Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Max. current rating at 30 °C
[mm <sup>2</sup> ]	[Ω/km]	[A]
1.5	13.3	19
2.5	7.98	27
4	4.95	37
6	3.3	48
10	1.91	69
16	1.21	92

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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	us" chainflex" CF895	
e image	us° chainf	

Design table		
Part No.	Number of cores	Core design
CF895.XX.04	4	L1 L3



























