

chainflex® CF896



5,000,000
Double strokes guaranteed



15 x d
Bend radius, e-chain®



10m
Travel distance, e-chain®

- For flexing applications
- iguPUR outer jacket
- Oil-resistant
- Shielded

- Flame-retardant

Dynamic information



Bend radius	e-chain® linear	minimum 15 x d
	flexible	minimum 12 x d
	fixed	minimum 8 x d
Temperature	e-chain® linear	-20°C up to +80°C
	flexible	-40°C up to +80°C (following DIN EN 60811-504)
	fixed	-50°C up to +80°C (following DIN EN 50305)
v max.	unsupported	3m/s



a max.	20m/s²
Travel distance	Unsupported travels up to 10m, Class 1

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-



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



Outer jacket Low-adhesion iguPUR mixture, adapted to suit the requirements in e-chains®.
Colour: Pastel orange (similar to RAL 2003)

Electrical information



Nominal voltage 600/1,000V (following DIN VDE 0298-3)
1,000V (following UL)



Testing voltage 4,000V (following DIN EN 50395)

Properties and approvals



UV resistance Medium



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

Image exemplary

Basic requirements
Travel distance
Oil resistance
Torsion

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

Class 3.1.3.1



Flame-retardant

According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame



Silicone-free

Free from silicone which can affect paint adhesion (following PV 3,10,7 – status 1992)



PTFE-free

The design of these products does not contain PTFE



UL-verified

Certificate No. V293650: „igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“
See data sheet for details ► www.igus.sk/CF896



UL/CSA AWM



NFPA

Following NFPA 79-2018, chapter 12.9



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 14-15)

Double strokes*	1 million	3 million	5 million
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [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.sk/chainflexlife

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 sun radiation
- Machining units/machine tools, low temperature applications

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]	Shop and prices online
CF896.07.04	(4G0.75)C	7.5	52	79	
CF896.15.04	(4G1.5)C	9.0	82	122	
CF896.25.04	(4G2.5)C	10.5	132	173	
CF896.40.04	(4G4.0)C	12.0	204	257	
CF896.60.04	(4G6.0)C	14.5	306	378	
CF896.100.04	(4G10)C	18.5	458	653	
CF896.160.04	(4G16)C	21.0	709	835	www.igus.sk/CF896

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

