Double strokes guaranteed

For flexing applications

• iguPUR outer jacket

Oil-resistant Shielded

Dynamic information Bend radius

Temperature

v max.

a max.

Cable structure

Travel distance

Conductor

Core insulation

Core structure

Element shield

Overall shield

Electrical information

Outer jacket

Nominal voltage

Testing voltage

Core identification

36 5,000,000

flexible

flexible

fixed

 20m/s^2

length.

e-chain® linear

unsupported

fixed

Servo cable | iguPUR | chainflex® CF897

15 x d

e-chain[®] linear minimum 15 x d

Unsupported travels up to 10m, Class 1

minimum 12 x d

minimum 8 x d

-20°C up to +80°C

Bend radius, e-chain®

Flame-retardant

-40°C up to +80°C (following DIN EN 60811-504)

-50°C up to +80°C (following DIN EN 50305)

Conductor consisting of bare copper wires (according to DIN EN 60228).

Power cores and control pair elements wound together in an optimised pitch

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

Mechanically high-quality, especially low-capacitance TPE mixture.

Power cores: 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-

1 control pair: Black cores with white numbers.

2 control pairs: Black cores with white numbers.

Foil taping of optimised, bending-resistant foil shield.

1. Control core: 5 2. Control core: 6

1. Control core: 5 2. Control core: 6 3. Control core: 7 4. Control core: 8

Braiding made of tinned copper wires.

Colour: Pastel orange (similar to RAL 2003)

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

4,000V (following DIN EN 50395)

Coverage approx. 60% optical

Travel distance, e-chain®

Free from silicone which can affect paint adhesion (following PV 3.10.7 – status

c**Fl**us

Class 3.1.3.1

nerties and annrovals

Silicone-free

NFPA

roperties and approvais	
UV resistance	Medium

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

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

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/CF897 UL/CSA AWM

EAC Certificate No. RU C-DE.ME77.B.00302/19

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

Following NFPA 79-2018, chapter 12.9

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

(**E**CE Following 2014/35/EU

UK UKCA In accordance with the valid regulations of the United Kingdom (as at 08/2021) CA

Guaranteed service life (details see page 28-29)

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	
* Higher number of double etro	okos? Sonico lifo colculation o	unlino Navana igue ou/oboinflo	vlifo	

Higher number of double strokes? Service life calculation online > www.igus.eu/chaintlexlife

Typical application areas

- For flexing applications, Class 3
- Especially for unsupported travels, Class 1

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

- 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

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

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]			
1 control pair shielded							
CF897.15.15.02.01	(4G1.5+(2x1.5)C)	12.5	124	201			
CF897.25.15.02.01	(4G2.5+(2x1.5)C)C	13.5	182	248			
CF897.40.15.02.01	(4G4.0+(2x1.5)C)C	14.5	236	329			
2 control pairs shielde	d						
CF897.15.15.02.02	(4G1.5+2x(2x1.5)C)C	13.5	164	246			

EPLAN download, configurators ► www.igus.eu/CF897



1,000V (following UL)