# Measuring system cable | iguPUR | chainflex® CF894

- 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 to +80 °C
((	flovible	-40 °C to ±80 °C

-40 °C to +80 °C (following DIN EN 60811-504) flexible -50 °C to +80 °C (following DIN EN 50305) fixed

v max. unsupported

20 m/s<sup>2</sup> Travel distance Unsupported travel distances up to 10 m, Class 1

#### Cable structure

Conductor	Conductor consisting of bare copper wires (following DIN EN 60228).
1(0)	

Core insulation Mechanically high-quality TPE mixture.

Core structure According to measuring system specification.

Core identification According to measuring system specification.

► Product range table Element shield Foil taping of optimised, bending-resistant foil shield.

Coverage approx. 100 % optical Braiding made of tinned copper wires.

Coverage approx. 60 % optical Low-adhesion iguPUR mixture, adapted to suit the requirements in e-chains®.

Outer jacket Colour: Yellow-green (similar to RAL 6018)

#### **Electrical information**

Overall shield

Nominal voltage 50 V

Testing voltage 500 V

### Class 3.1.3.1



#### Oil resistance Torsion

Basic requirements

#### Properties and approvals

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UV resistance	Medium.
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3.
Flame retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992).
UL/CSA	Style 1589 and 20236, 30 V, 80 °C
NFPA NFPA	Following NFPA 79-2012 chapter 12.9.
EAC	Certificate no. RU C-DE.ME77.B.01559 (TR ZU)
СТР	Certificate no. C-DE.PB49.B.00449 (Fire safety)
Lead-free	Following 2011/65/EU (RoHS-II).

### Guaranteed lifetime according to guarantee conditions (Page 22-23)

Following 2014/35/EU.

Double strokes*				
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	

#### Typical mechanical application areas

- For flexing applications
- With influence of oil

CE<sub>CE</sub>

- Indoor and outdoor applications without direct solar radiation
- Especially for unsupported travels
- Machining units/machine tools, low temperature applications



















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## igus" chainflex" CF894



#### Example image

Part No.	Number of cores and conductor nominal cross section	Outer diame (d)max.	ter Copper index	Weight	Part No. Con	re group	Colour code
	[mm²]	[mm]	[kg/km]	[kg/km]			
CF894.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	8.5	43	90	<b>CF894.001</b> 3x(2	x0.14)C	green/yellow, black/brown, red/orange
						4x0.14	grey, blue, white-yellow, white-black
						2x0.5	brown-red, brown-blue
CF894.006	(3x(2x0.14)C+(4x0.14)+(4x0.22)+(2x0.5))C	9.0	53	113	<b>CF894.006</b> 3x(2	x0.14)C	green/yellow, black/brown, red/orange
						4x0.14	grey, blue, white-yellow, white-black
						4 x 0.22	brown-yellow, brown-grey, green-black, brown-red
						2x0.5	brown-red, brown-blue
CF894.011	(4x(2x0.34)+4x0.5)C	9.5	68	116	<b>CF894.011</b> 4x	(2x0.34) I	black/brown, red/orange, yellow/green, blue/violet
						4x0.5	blue-white, black-white, red-white, yellow-white
CF894.015	(4x(2x0.14)+4x0.5)C	8.5	47	90	CF894.015 4x	(2x0.14) I	brown/green, violet/yellow, grey/pink, red/black
						4x0.5	blue, white, brown-green, white-green
CF894.022	((2x0.25)+5x0.5)C	8.0	44	83	CF894.022	5x0.5	blue, green, yellow, grey, pink
						2x0.25	white, brown
CF894.028	(2x(2x0.15)+(2x0.38))C	7.5	43	66	<b>CF894.028</b> 2x	(2x0.15)	green/yellow, pink/blue
						2x0.38	red, black

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



















