Medium

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
(CR	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 (f

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

a max.	20m/s ²

Travel distance	Unsupported travels up to 10m, Class 1
[_ (m) _ [

unsupported

Cable structure

v v max.

Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
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Core insulation Mechanically high-quality TPE mixture.	Core insulation	Mechanically high-quality TPE mixture.
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Core identification	According to measuring system specification.	
100	► Product range table	

Element shield	Foil taping of optimised, bending-resistant foil shield.
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	Coverage approx. 100% optical	
Overall shield	Braiding made of tinned copper wires.	
$(\diamondsuit$	Coverage approx. 60% optical	

Outer jacket	Low-adhesion iguPUR mixture, adapted to suit the requirements in e-chains®.
()	Colour: Yellow-green (similar to RAL 6018)

Electrical information

Yu	Nominal voltage	50V
7.0		001/

30V	(fol	lowir	ng	UL	_)



Properties and approvals

UV resistance

Class 3.1.3.1

71	
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3

- Oil	
Flamo-rotardant	According to IEC 60332-1-2 Cable Flame VM 1 FT1 FT2 / Horizontal Flam

Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 - status

	Olliconc-nec	The normalicone which can affect paint adhesion (lollowing) vo. 10.1	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"
UL/CSA AWM	See data sheet for details ▶ www.igus.eu/CF894

NFPA NFPA	Following NFPA 79-2018, chapter 12.9

REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
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RoHS Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III
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C € CE	Following 2014/35/EU
7)	

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 strok	res? Service life calculation o	online www.igus.eu/chainfle	dife

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



chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

igus 36-month

UL-verified chainflex® guarantee ... www.igus.eu/ul-verified

EPLAN download, configurators ▶ www.igus.eu/CF894

36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges













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Measuring system cable | iguPUR | chainflex® CF894

Part No.

CF894.001

CF894.006

CF894.009

CF894.011

CF894.015

Colour code

green/yellow, black/brown, red/orange

green/yellow, black/brown, red/orange grey, blue, white-yellow, white-black

yellow-brown, grey-brown, green-black, brown-red

black/brown, red/orange, yellow/green, blue/violet

blue-white, black-white, red-white, yellow-white

brown/green, yellow/violet, grey/pink, red/black

blue, white, brown-green, white-green

green, yellow, grey, pink, blue

green/yellow, pink/blue

brown/green, blue/violet, grey/pink, red/black

grey, blue, white-yellow, white-black

brown-red, brown-blue

brown-red, brown-blue

white/brown

white, brown

red/black

Core group

3x(2x0.14)C

4x0.14

2x0.5

3x(2x0.14)C

4x0.14

4 x 0.22

2x0.5

4x(2x0.25)

2x0.5

4x(2x0.34)

4x0.5

4x(2x0.14)

4x0.5

igus chainflex CF894



Example image

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF894.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	8.5	41	80
CF894.006	(3x(2x0.14)C+(4x0.14)+(4x0.22) +(2x0.5))C	9.0	50	105
CF894.009	(4x(2x0.25)+2x0.5)C	8.0	44	80
CF894.011	(4x(2x0.34)+4x0.5)C	9.5	64	126
CF894.015	(4x(2x0.14)+4x0.5)C	8.5	44	84
CF894.022	((2x0.25)+5x0.5)C	8.0	44	78
CF894.028	(2x(2x0.15)+(2x0.38))C	7.5	41	57

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



Cables available in the chainflex® CASE

Order example: CF894.011 - to your desired length (0.5m steps)

CF894 chainflex® series .011 Code measuring system type

Simple savings on delivery, storage space and re-ordering with the chainflex® CASE - ship'n store by igus®.

More on this on page 24/25 and online: www.igus.eu/cf-case



CF894.022 2x0.25 5x0.5 2x(2x0.15) CF894.028 2x0.38





Reduce cost, improve technology, now!

Do the chainflex® price check ... www.igus.eu/cf-price-check

... for example: Reduce bend radius with CF113.D ..

































guarantee and service life calculator based on 2 billion test cycles per year

Guarantee



Order online ► www.igus.eu/CF894

Delivery time means time until goods are shipped.

Delivery time 24hrs or today.









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