

Measuring system cable | iguPUR | chainflex® CF894

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

Dynamic information

	Bend radius	e-chain® linear flexible	minimum 15 x d minimum 12 x d
		fixed	minimum 8 x d
	Temperature	e-chain® linear flexible	-20 °C to +80 °C
		fixed	-40 °C to +80 °C (following DIN EN 60811-504)
	v max.	unsupported	3 m/s
	a max.		20 m/s ²
	Travel distance		Unsupported travel distances up to 10 m, Class 1

Cable structure

	Conductor	Conductor consisting of bare copper wires (following DIN EN 60228).
	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
	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: Yellow-green (similar to RAL 6018)

Electrical information

	Nominal voltage	50 V
	Testing voltage	500 V

Class 3.1.3.1

Basic requirements	low	1	2	3	4	5	6	7	highest
Travel distance	unsupported	1	2	3	4	5	6	7	≥ 400 m
Oil resistance	none	1	2	3	4	5	6	7	highest
Torsion	none	1	2	3	4	5	6	7	±180°

Properties and approvals

	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	Following NFPA 79-2012 chapter 12.9.
	EAC	Certificate no. RU C-DE.ME77.B.01559 (TR ZU)
	CTP	Certificate no. C-DE.PB49.B.00449 (Fire safety)
	Lead-free	Following 2011/65/EU (RoHS-II).
	CE	Following 2014/35/EU.

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

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 strokes? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For flexing applications
- With influence of oil
- Indoor and outdoor applications without direct solar radiation
- Especially for unsupported travels
- Machining units/machine tools, low temperature applications

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]	Part No.	Core group	Colour code
CF894.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	8.5	43	90	CF894.001	3x(2x0.14)C 4x0.14 2x0.5	green/yellow, black/brown, red/orange grey, blue, white-yellow, white-black brown-red, brown-blue
CF894.006	(3x(2x0.14)C+(4x0.14)+(4x0.22)+(2x0.5))C	9.0	53	113	CF894.006	3x(2x0.14)C 4x0.14 4 x 0.22 2x0.5	green/yellow, black/brown, red/orange grey, blue, white-yellow, white-black brown-yellow, brown-grey, green-black, brown-red brown-red, brown-blue
CF894.011	(4x(2x0.34)+4x0.5)C	9.5	68	116	CF894.011	4x(2x0.34) 4x0.5	black/brown, red/orange, yellow/green, blue/violet 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) 4x0.5	brown/green, violet/yellow, grey/pink, red/black blue, white, brown-green, white-green
CF894.022	((2x0.25)+5x0.5)C	8.0	44	83	CF894.022	5x0.5 2x0.25	blue, green, yellow, grey, pink white, brown
CF894.028	(2x(2x0.15)+(2x0.38))C	7.5	43	66	CF894.028	2x(2x0.15) 2x0.38	green/yellow, pink/blue 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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Multi-Paired Cables](#) category:

Click to view products by [Igus](#) manufacturer:

Other Similar products are found below :

[7-21000-9](#) [9805 060100](#) [1416402/M12MS/IP20/10](#) [9804 060100](#) [9808 060100](#) [9843 060100](#) [9873 060100](#) [190-038045-00](#) [44A0121-12-996CS2275](#)
[44A0121-20-09-MX](#) [55PC0211-14-9](#) [55PC0216-24-9](#) [55PC0221-22-2/6CS2756](#) [55PC0811-16-9](#) [55PC0811-24-9](#) [55PC1131-20-029-9](#) [Y60912](#)
[CW1922-000](#) [RI55D](#) [9157 060100](#) [2020D0309-0](#) [9774 060100](#) [8334 060100](#) [1350SB 0101000](#) [8342 060100](#) [8740 060U1000](#) [9505 060U1000](#)
[3613 003A1000](#) [44A0121-22-0/9-MX](#) [2412 009U1000](#) [82777 8771000](#) [9406 T35100](#) [3613 D151000](#) [1533R 0101000](#) [1533P 0101000](#) [9272](#)
[006U1000](#) [2413F D15A500](#) [9681 0601000](#) [44A0121-22-6/9-MX](#) [1533R 0061000](#) [RIT1000](#) [1533R 006A1000](#) [9812 060100](#) [2221 B59U1000](#)
[10GX13 D151000](#) [1874A 004A1000](#) [8340 060100](#) [8333 0601000](#) [1533R 0021000](#) [1583A 012U1000](#)