










## Control cable | iguPUR | chainflex® CF890

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



### Dynamic information

	<b>Bend radius</b>	<b>e-chain®</b>	minimum 12.5 x d
		<b>flexible</b>	minimum 10 x d
		<b>fixed</b>	minimum 7 x d
	<b>Temperature</b>	<b>e-chain®</b>	-20 °C to +80 °C
		<b>flexible</b>	-40 °C to +80 °C (following DIN EN 60811-504)
		<b>fixed</b>	-50 °C to +80 °C (following DIN EN 50305)
	<b>v max.</b>	<b>unsupported</b>	3 m/s
		<b>a max.</b>	20 m/s <sup>2</sup>
	<b>Travel distance</b>	Unsupported travel distances up to 10 m, Class 1	

### Cable structure










	<b>Conductor</b>	Conductor consisting of bare copper wires (following DIN EN 60228).
	<b>Core insulation</b>	Mechanically high-quality PVC mixture.
	<b>Core structure</b>	Cores wound with an optimised pitch length.
	<b>Core identification</b>	Black cores with white numerals, one core green-yellow.
	<b>Outer jacket</b>	Low-adhesion iguPUR mixture, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)

### Electrical information

	<b>Nominal voltage</b>	300/500 V
	<b>Testing voltage</b>	2000 V (following DIN EN 50395)

## Class 3.1.3.1

### Properties and approvals

	<b>UV resistance</b>	Medium.
	<b>Oil resistance</b>	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	<b>Flame retardant</b>	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
	<b>Silicone-free</b>	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992).
	<b>UL/CSA</b>	Style 11008 and 20940, 600 V, 80 °C
	<b>EAC</b>	Certificate no. RU C-DE.ME77.B.01560 (TR ZU)
	<b>CTP</b>	Certificate no. C-DE.PB49.B.00449 (Fire safety)
	<b>Lead-free</b>	Following 2011/65/EU (RoHS-II).
	<b>CE</b>	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	15	16	17
-10/+70	12.5	13.5	14.5
+70/+80	15	16	17

\* Higher number of double strokes? Online lifetime calculation: [www.igus.eu/chainflexlife](http://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



Example image

igus® chainflex® CF890

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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
CF890.05.02	2x0.5	5.5	11	34
CF890.05.03	3G0.5	6.0	16	42
CF890.05.04	4G0.5	6.5	22	50
CF890.05.05	5G0.5	7.0	27	62
CF890.05.07	7G0.5	8.5	37	92
CF890.05.12	12G0.5	9.5	64	136
CF890.05.18	18G0.5	11.5	96	198
CF890.05.25	25G0.5	13.5	132	276
CF890.07.02	2x0.75	6.0	16	42
CF890.07.03	3G0.75	6.5	24	52
CF890.07.04	4G0.75	7.0	32	65
CF890.07.05	5G0.75	7.5	40	79
CF890.07.07	7G0.75	9.0	56	116
CF890.07.12	12G0.75	10.5	96	176
CF890.07.18	18G0.75	13.0	143	262
CF890.07.25	25G0.75	15.0	198	366
CF890.10.02	2x1.0	6.5	22	50
CF890.10.03	3G1.0	6.5	32	63
CF890.10.04	4G1.0	7.0	43	78
CF890.10.05	5G1.0	8.0	53	95
CF890.10.07	7G1.0	9.5	74	142
CF890.10.12	12G1.0	11.5	127	217
CF890.10.18	18G1.0	13.5	191	318
CF890.10.25	25G1.0	16.0	264	450
CF890.15.02	2x1.5	7.5	32	77
CF890.15.03	3G1.5	8.5	48	99
CF890.15.04	4G1.5	9.0	64	123
CF890.15.05	5G1.5	10.0	80	156
CF890.15.07	7G1.5	12.5	111	233
CF890.15.12	12G1.5	14.5	191	352
CF890.15.18	18G1.5	17.5	286	520
CF890.15.25	25G1.5	21.0	396	733
CF890.25.03	3G2.5	9.0	80	139
CF890.25.04	4G2.5	10.0	106	178
CF890.25.05	5G2.5	11.5	132	222
CF890.25.07	7G2.5	14.0	185	333
CF890.25.12	12G2.5	16.5	317	508
CF890.25.25	25G2.5	24.0	660	1067

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



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