

# Control cable | PVC | chainflex® CF880

## Class 3.1.1.1

- For flexing applications
- PVC outer jacket
- 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>	+5 °C to +70 °C
		<b>flexible</b>	+5 °C to +70 °C (following DIN EN 60811-504)
		<b>fixed</b>	-15 °C to +70 °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 PVC 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)

### Properties and approvals

	<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 2464, 300 V, 80 °C
	<b>NFPA</b>	Following NFPA 79-2012 chapter 12.9.
	<b>EAC</b>	Certificate no. RU C-DE.ME77.B.01560 (TR SU)
	<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]
+5/+15	15	16	17
+15/+60	12.5	13.5	14.5
+60/+70	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, Class 3
- Without influence of oil, Class 1
- Preferably indoor applications
- Especially for unsupported travels, Class 1
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment



Example image

igus® chainflex® CF880



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
CF880.05.02	2x0.5	5.5	11	38
CF880.05.03	3G0.5	6.0	16	45
CF880.05.04	4G0.5	6.5	22	54
CF880.05.05	5G0.5	7.0	27	67
CF880.05.07	7G0.5	8.5	37	99
CF880.05.12	12G0.5	9.5	64	145
CF880.05.18	18G0.5	11.5	96	211
CF880.05.25	25G0.5	13.5	132	291
<b>CF880.07.02</b>	<b>2x0.75</b>	<b>6.0</b>	<b>16</b>	<b>47</b>
CF880.07.03	3G0.75	6.5	24	56
CF880.07.04	4G0.75	7.0	32	69
CF880.07.05	5G0.75	7.5	40	84
CF880.07.07	7G0.75	9.0	56	125
CF880.07.12	12G0.75	10.5	96	186
CF880.07.18	18G0.75	13.0	143	278
CF880.07.25	25G0.75	15.0	198	384
CF880.10.02	2x1.0	6.5	22	54
CF880.10.03	3G1.0	6.5	32	68
CF880.10.04	4G1.0	7.0	43	83
CF880.10.05	5G1.0	8.0	53	101
CF880.10.07	7G1.0	9.5	74	153
CF880.10.12	12G1.0	11.5	127	229
CF880.10.18	18G1.0	13.5	191	334
CF880.10.25	25G1.0	16.0	264	471
CF880.15.02	2x1.5	7.5	32	83
CF880.15.03	3G1.5	8.5	48	106
CF880.15.04	4G1.5	9.0	64	131
CF880.15.05	5G1.5	10.0	80	166
CF880.15.07	7G1.5	12.5	111	250
CF880.15.12	12G1.5	14.5	191	372
CF880.15.18	18G1.5	17.5	286	548
CF880.15.25	25G1.5	21.0	396	768
CF880.25.03	3G2.5	9.0	80	147
CF880.25.04	4G2.5	10.0	106	189
CF880.25.05	5G2.5	11.5	132	235
CF880.25.07	7G2.5	14.0	185	354
CF880.25.12	12G2.5	16.5	317	533
CF880.25.25	25G2.5	24.0	660	1112

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

