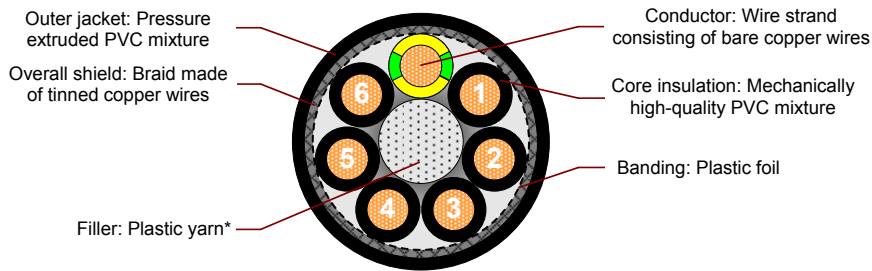


PVC - e-chain[®] - control cable for flexible load requirements (class 3.1.1): shielded as well as flame-retardant.



* For exceptions see [construction table](#).

Example drawing
(For a detail overview see [construction table](#))

Core design:

- Conductor:** Wire strand consisting of bare copper wires (following DIN EN 60228).
- Core insulation:** Mechanically high-quality PVC mixture.
- Core identification:** Black cores with white numerals & one core green/yellow.

Shield design:

- Material:** Braid made of tinned copper wires.
- Shield coverage (optical):** approx. 60 %

Jacket design:

- Outer jacket:** Low-adhesion mixture on the basis of PVC adapted to suit the requirements in e-chains[®].
 - flame-retardant (following IEC 60332-1-2, CEI 20-35, VW-1 & FT-1)
 - silicon-free (following PV 3.10.7 - status 1992)
 - lead-free (following 2011/65/EU (RoHS-II))
 - UV-resistance: Medium

Colour outer jacket: Jet Black (similar to RAL 9005)

Cable marking (White):

„00000 m“*** igus chainflex M CF881...-...[⊕] ...[⊗] 300/500V E310776
cRUs AWM Style 2464 VW-1 AWM I/II A/B 80°C 300V FT-1 CE RoHS-
 II conform www.igus.de +++ chainflex cable works +++

** **Length printing:** Not calibrated. Only intended as an orientation aid.

⊕ / ⊗: Cable identification according to part no. (see [technical table](#) for details).

Ex.: CF881.15.04.: => ...igus chainflex CF881.15.04 (4G1,5)C 300/500V...

Allgemeine mechanische Werte:

(Für individuelle Informationen siehe [technische Tabelle](#))

Double strokes *		1 million
Temperature (from/to) [°C]	Travel distance (TD)	Min. bending radius for e-chain [®] use [Factor multiplied by outer diameter (d)] (Ex.: CF881.07.04 at 20°C: 12,5 x 7,5 mm → Min. bending radius 93,75 mm)
+5 / +15	≤ 6 m (unsupported)	15,0
+15 / +60		12,5
+60 / +70		15,0

*: Minimum guarantee lifetime of the cable under the specified conditions.

The installation of the cable is recommended within the middle temperature range.

Temperature range	-20 °C ←	+5 °C ←	+15 °C ↔ +60 °C	→ +70 °C
Min. bending radius for fixed installation	12,5 x d	10,0 x d	7,5 x d	10,0 x d
Torsion (at 1 m cable length)	---	±0°	±15°	±0°

General electrical values:

(for individual details see [technical table](#))

- Nominal voltage:** 300 / 500 V (following DIN VDE 0245)
- Test voltage:** 2 kV (following VDE 0281-2)
- Certifications:** cRU: (E310776: Style 11008 & 2464, 300 V / 80 °C)
- Guidelines:** CE, NFPA (following 79-2012 chapter 12.9), EAC & TR (CTP)

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 igus[®] chainflex[®] M CF881



PVC - e-chain[®] - control cable for flexible load requirements (class 3.1.1):
shielded as well as flame-retardant.

Technical tables:

Mechanical values:

① Part no.	② Number of cores & nominal cross section [mm ²] ^{****}	External diameter (d) ^{*****} [max. mm]	Copper index [kg / km]	Weight [kg / km]
CF881.05.02	(2x0,5)C	6,0	28	53
CF881.05.03	(3G0,5)C	6,5	34	60
CF881.05.04	(4G0,5)C	7,0	44	75
CF881.05.05	(5G0,5)C	7,5	50	86
CF881.05.07	(7G0,5)C	9,0	72	123
CF881.05.12	(12G0,5)C	10,5	104	172
CF881.05.18	(18G0,5)C	12,0	141	238
CF881.05.24	(24G0,5)C	14,0	179	310
CF881.07.02	(2x0,75)C	6,5	34	60
CF881.07.03	(3G0,75)C	7,0	47	76
CF881.07.04	(4G0,75)C	7,5	55	88
CF881.07.05	(5G0,75)C	8,0	69	111
CF881.07.07	(7G0,75)C	10,0	90	150
CF881.07.12	(12G0,75)C	11,5	136	215
CF881.07.18	(18G0,75)C	13,5	194	306
CF881.07.24	(24G0,75)C	15,5	271	423
CF881.10.02	(2x1,0)C	7,0	44	73
CF881.10.03	(3G1,0)C	7,5	55	85
CF881.10.04	(4G1,0)C	8,0	72	107
CF881.10.05	(5G1,0)C	8,5	82	126
CF881.10.07	(7G1,0)C	10,5	114	177
CF881.10.12	(12G1,0)C	12,0	173	256
CF881.10.18	(18G1,0)C	14,5	262	386
CF881.10.24	(24G1,0)C	16,5	335	494
CF881.15.02	(2x1,5)C	8,5	61	104
CF881.15.03	(3G1,5)C	9,0	77	125
CF881.15.04	(4G1,5)C	10,0	98	159
CF881.15.05	(5G1,5)C	11,0	120	192
CF881.15.07	(7G1,5)C	13,0	163	270
CF881.15.12	(12G1,5)C	16,0	272	425
CF881.15.18	(18G1,5)C	18,5	387	608
CF881.15.24	(24G1,5)C	21,5	492	785
CF881.25.04	(4G2,5)C	11,0	146	221
CF881.40.04	(4G4,0)C	13,0	215	312
CF881.60.04	(4G6,0)C	14,5	325	439

**** G ⇒ Cable contains a greenyellow core.

***** External diameters are maximum values and may tend toward lower tolerance limits.







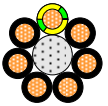

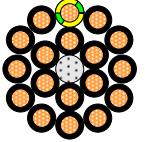
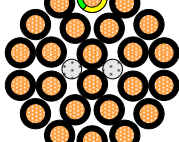
PVC - e-chain[®] - control cable for flexible load requirements (class 3.1.1):
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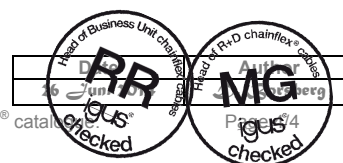
Electrical values:

Nominal cross section [mm ²] (following)	Conductor resistance [approx. Ω / km] at 20 °C DIN IEC 60344	Max. current rating [A] at 30 °C* DIN VDE 0298-4
0,5	39	8
0,75	26	12
1,0	19,5	15
1,5	13,3	18
2,5	8	26
4,0	4,95	34
6,0	3,3	44

* The max. current rating depends on factors such as the individual environmental conditions and the type of installation.

Construction table:

Part no. No. of cores	Core stranding	Part no. No. of cores	Core stranding
CF881.XX.02 2		CF881.XX.03 3	
CF881.XX.04 4		CF881.XX.05 5	
CF881.XX.07 7		CF881.XX.12 12	
CF881.XX.18 18		CF881.XX.24 24	



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