Control cable | PVC | chainflex® CF881

5 million
Guaranteed double strokes

12.5 x d
Bend radius e-chain®

10 m
Travel distance, e-chain®

- For flexing applications
- PVC outer jacket
- Shielded
- Flame retardant

Dynamic information

Bend radius	**e-chain® linear**	min. 12.5 x d
	flexible	min. 10 x d
	fixed	min. 7 x d
Temperature	**e-chain® linear**	+5 °C up to +70 °C
	flexible	-5 °C up to +70 °C (following DIN EN 60811-504)
	fixed	-15 °C up to +70 °C (following DIN EN 50305)
v max.	**unsupported**	3 m/s
a max.		20 m/s²
Travel distance		Unsupported travels up to 10 m, Class 1

Cable structure

Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
Core insulation	Mechanically high-quality PVC mixture.
Core structure	Cores wound with an optimised pitch length.
Core identification	Black cores with white numbers, one green-yellow core.
Overall shield	Braiding made of tinned copper wires. Coverage optical approx. 60 %
Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)

Electrical information

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



Example image

Class 3.1.1.1

Basic requirements	low	1	2	**3**	4	5	6	7	highest
Travel distance	unsupported	**1**	2	3	4	5	6	≥ 400 m
Oil resistance	none	**1**	2	3	4	highest		
Torsion	none	**1**	2	3	4	±360°		

Properties and approvals

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 11008 and 2464, 300 V, 80 °C
NFPA	Following NFPA 79-2018, chapter 12.9
EAC	Certificate No. RU C-DE.ME77.B.01560 (TR ZU)
CTP	Certificate No. C-DE.PB49.B.00449 (Fire protection)
Lead-free	Following 2011/65/EC (RoHS-II)
CE	Following 2014/35/EU

Guaranteed service life (details see 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? Service life calculation online ▶ www.igus.eu/chainflexlife

Typical mechanical application areas

- For flexing applications, Class 3
- Especially for unsupported travels, Class 1
- Without influence of oil, Class 1
- No torsion, Class 1
- Preferably indoor applications
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment

CF881
PVC
12.5 x d

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CF881
PVC
12.5 x d



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]
CF881.05.03	(3G0.5)C	6.5	32	58
CF881.05.04	(4G0.5)C	7.0	42	73
CF881.05.05	(5G0.5)C	7.5	47	83
CF881.05.07	(7G0.5)C	9.0	68	119
CF881.05.12	(12G0.5)C	10.5	98	167
CF881.05.18	(18G0.5)C	12.0	132	229
CF881.05.25	(25G0.5)C	14.5	191	325
CF881.07.02	(2x0.75)C	6.5	32	59
CF881.07.03	(3G0.75)C	7.0	44	73
CF881.07.04	(4G0.75)C	7.5	52	85
CF881.07.05	(5G0.75)C	8.0	65	107
CF881.07.07	(7G0.75)C	10.0	85	145
CF881.07.12	(12G0.75)C	11.5	127	207
CF881.07.18	(18G0.75)C	13.5	182	294
CF881.07.25	(25G0.75)C	16.0	262	415
CF881.10.02	(2x1.0)C	7.0	42	70
CF881.10.03	(3G1.0)C	7.5	52	82
CF881.10.04	(4G1.0)C	8.0	68	103
CF881.10.05	(5G1.0)C	8.5	78	122
CF881.10.07	(7G1.0)C	10.5	107	169
CF881.10.12	(12G1.0)C	12.0	162	245
CF881.10.18	(18G1.0)C	14.5	245	369
CF881.10.25	(25G1.0)C	17.0	334	501
CF881.15.02	(2x1.5)C	8.5	57	101
CF881.15.03	(3G1.5)C	9.0	73	121
CF881.15.04	(4G1.5)C	10.0	93	154
CF881.15.05	(5G1.5)C	11.0	113	184
CF881.15.07	(7G1.5)C	13.0	152	260
CF881.15.12	(12G1.5)C	16.0	255	408
CF881.15.18	(18G1.5)C	18.5	363	583
CF881.15.25	(25G1.5)C	22.0	486	781
CF881.25.04	(4G2.5)C	11.0	137	212
CF881.25.05	(5G2.5)C	12.0	167	251
CF881.25.07	(7G2.5)C	15.0	240	368
CF881.25.12	(12G2.5)C	17.5	383	559
CF881.25.25 [11)]	(25G2.5)C	25.0	735	1083

[11)] Phase-out model

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

Order example: CF881.25.25 – to your desired length (0.5 m steps)
CF881 chainflex® series .25 Code nominal cross section .25 Number of cores

Online order ▶ www.chainflex.eu/CF881

Delivery time 24hrs or today.
Delivery time means time until goods are shipped.