Measuring system cable | PVC | chainflex® CF884

5 million
Guaranteed double strokes

15 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. 15 x d
	flexible	min. 12 x d
	fixed	min. 8 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 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 optical approx. 60 %
Outer jacket	Low-adhesion PVC 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



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 1589 and 2560, 30 V, 60 °C
NFPA	Following NFPA 79-2018, chapter 12.9
EAC	Certificate No. RU C-DE.ME77.B.01559 (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	17.5	18.5	19.5
+15/+60	15	16	17
+60/+70	17.5	18.5	19.5

* 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

CF884
PVC
15 x d

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CF884
PVC
15 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]	Part No.	Core group	Colour code
CF884.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	8.5	41	92	**CF884.001**	3x(2x0.14)C	green/yellow, black/brown, red/orange
						4x0.14	grey, blue, white-yellow, white-black
						2x0.5	brown-red, brown-blue
CF884.006	(3x(2x0.14)C+(4x0.14)+(4x0.22)+(2x0.5))C	9.0	50	118	**CF884.006**	3x(2x0.14)C	green/yellow, black/brown, red/orange
						4x0.14	grey, blue, white-yellow, white-black
						4x0.22	yellow-brown, grey-brown, green-black, green-red
						2x0.5	brown-red, brown-blue
CF884.009	(4x(2x0.25)+2x0.5)C	8.0	44	85	**CF884.009**	4x(2x0.25)	brown/green, blue/violet, grey/pink, red/black
						2x0.5	white, brown
CF884.011	(4x(2x0.34)+4x0.5)C	9.5	64	120	**CF884.011**	4x(2x0.34)	black/brown, red/orange, yellow/green, blue/violet
						4x0.5	blue-white, black-white, red-white, yellow-white
CF884.015	(4x(2x0.14)+4x0.5)C	8.5	44	93	**CF884.015**	4x(2x0.14)	brown/green, yellow/violet, grey/pink, red/black
						4x0.5	blue, white, brown-green, white-green
CF884.022	((2x0.25)+5x0.5)C	8.0	42	87	**CF884.022**	2x0.25	white, brown
						5x0.5	green, yellow, grey, pink, blue
CF884.028	(2x(2x0.15)+(2x0.38))C	7.5	41	69	**CF884.028**	2x(2x0.15)	green/yellow, pink/blue
						2x0.38	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

Order example: CF884.015 – to your desired length (0.5 m steps)
CF884 chainflex® series .015 Code measuring system type

Online order ▶ www.chainflex.eu/CF884

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