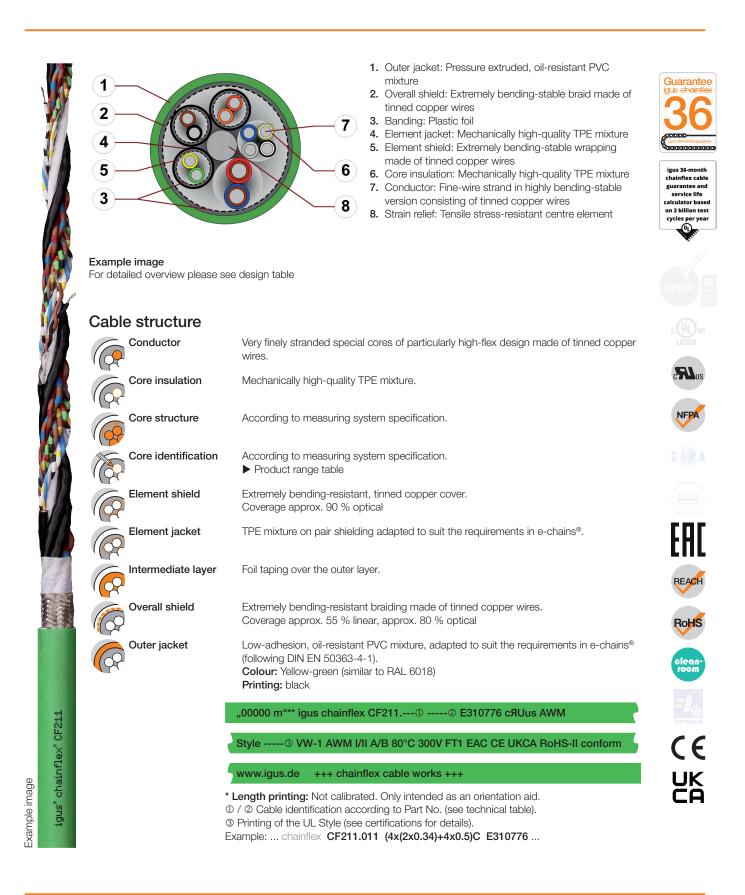


Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant





Guarantee

chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

### Dynamic information

	Bend radius	e-chain <sup>®</sup> linear flexible fixed	minimum 10 x d minimum 8 x d minimum 5 x d
	Temperature	e-chain® linear flexible fixed	+5 °C up to +70 °C -5 °C up to +70 °C (following DIN EN 60811-504) -15 °C up to +70 °C (following DIN EN 50305)
	v max.	unsupported gliding	5 m/s 3 m/s
	a max.	30 m/s <sup>2</sup>	
Ø	Travel distance	Unsupported travels an	d up to 10 m for gliding applications, Class 2

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

### Guaranteed service life according to guarantee conditions

Double strokes	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	12.5	13.5	14.5
+15/+60	10	11	12
+60/+70	12.5	13.5	14.5

Minimum guaranteed service life of the cable under the specified conditions.

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

### **Electrical information**



50 V 300 V (following UL)

Testing voltage

voltage 500 V

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Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
UL/CSA AWM	Style 10467 and 2464, 300 V, 80 °C CF211.028: Style 11602 and 20601, 300 V, 80 °C
NFPA	Following NFPA 79-2018, chapter 12.9
EAC	Certificate No. RU C-DE.ME77.B.00295/19 (TR ZU)
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
Cleanroom	According to ISO Class 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1
ECE	Following 2014/35/EU
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)

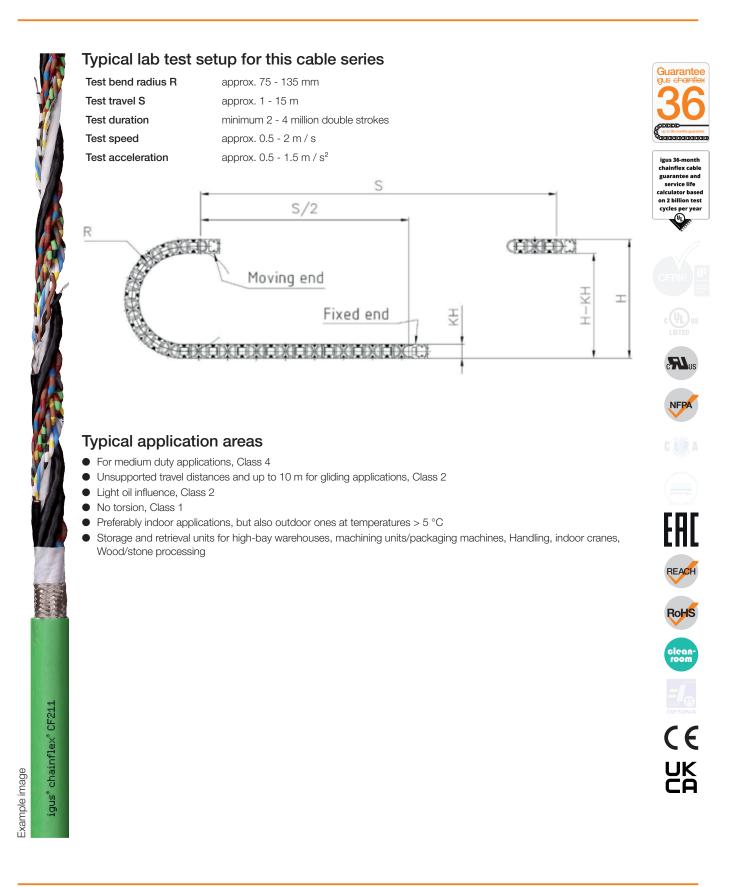
Example image

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Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant



### **Data sheet** chainflex® CF211



Measuring system cable (Class 4.2.2.1) • For medium duty applications • PVC outer jacket • Shielded • Oil-resistant • Flame retardant

Part No.	Number of cores and conductor	Outer diameter	Copper	Weight	2
	nominal cross section [mm <sup>2</sup> ]	(d) max. [mm]	index [kg/km]	[kg/km]	
CF211.001	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	9.0	64	100	aaaa
CF211.002	(3x(2x0.14)C+2x(0.5)C)C	9.5	66	106	igus 3 chainf guara
CF211.004	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5))C	10.0	70	115	serv serv calcula
CF211.006	(3x(2x0.14)C+(4x0.14) +(4x0.25)+(2x0.5))C	10.0	76		on 2 b cycle:
CF211.009	(4x(2x0.25)+2x0.5)C	8.0	49	79	
CF211.010	(4x(2x0.25)+2x1.0)C	8.5	61	92	
CF211.011	(4x(2x0.34)+4x0.5)C	9.5	72	109	
CF211.014	(4x(2x0.25)C+(2x0.5))C	10.5	77	124	
CF211.015	(4x(2x0.14)+4x0.5)C	8.5	54	86	
CF211.016	(3x(2x0.25)C)C	9.0	51	89	
CF211.017	(4x(2x0.14)+(4x0.14)C+4x1.0)C	10.0	92	134	
CF211.018	(2x(2x0.25)+2x0.5)C	6.5	34	54	c
CF211.019	(3x(2x0.25)C+(3x0.25)+2x1.0)C	10.0	86	125	
CF211.022	((2x0.25)+5x0.5)C	7.0	46	71	N
CF211.024	((4x0.14)+2x(2x0.34))C	7.0	36	61	
CF211.027	(5x(2x0.14)+2x0.5)C	8.0	45	75	
CF211.028	(2x(2x0.15)+(2x0.38))C	7.5	40	77	
CF211.030	(3x(2x0.25)C+2x(2x0.25))C	8.5	60	87	
CF211.032	3x(2x0.14)C+(3x0.14)C	8.0	35	79	
CF211.033	4x(2x0.14)C+2x(1.0)C	9.5	64	112	Γ
CF211.036	(5x(2x0.25))C	8.0	42	69	C
CF211.037	(6x(2x0.25))C	8.5	51	83	
CF211.038	(3x(2x0.14)+(2x0.34))C	7.5	33	62	RI
CF211.039	(4x(2x0.14)C+2x(0.5)C)C	10.0	77	125	
CF211.041	(2x(2x0.18)+5x0.5)C	7.5	49	79	R

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

chainflex<sup>®</sup> CF211

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NFPA EAC REACH RoHS clean room **€** UK CA



Guarantee

chainflex cable guarantee and service life calculator based on 2 billion test

Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

#### **Technical tables:**

Electrical information
------------------------

Conductor nominal cross section [mm²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C [A]
0.14	145.0	2.5
0.15	146.0	2.5
0.18	105.0	3
0.25	85.0	5
0.34	62.0	7
0.38	60.0	7
0.5	42.0	10
1.0	21.0	17

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

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Example image

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Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

Design table Part No.	Core group	Colour code	Core design
	3x(2x0.14)C	green/yellow, black/brown, red/orange	
CF211.001	(4x0.14)	grey/blue/white-yellow/white-black	
	(2x0.5)	brown-red, brown-blue	
0.5014.000	3x(2x0.14)C	green/yellow, black/brown, red/orange	8
CF211.002	2x(0.5)C	black, red	
	2x(2x(2x0.14))	(brown/green)/(yellow/violet), (grey/pink)/(red/ black)	
CF211.004	(4x0.14)C	yellow-black/red-black/green-black/blue-black	00000
	(4x0.5)	brown-green/white-green/blue/white	
	3x(2x0.14)C	green/yellow, black/brown, red/orange	
	(4x0.14)	grey/blue/white-yellow/white-black	
CF211.006	(4x0.25)	brown-yellow/brown-grey/green-black/green-red	
	(2x0.5)	brown-red, brown-blue	
CF211.009	4x(2x0.25)	brown/green, blue/violet, grey/pink, red/black	88
67211.009	2x0.5	white, brown	88
	4x(2x0.25)	brown/green, blue/violet, grey/pink, red/black	88
CF211.010	2x1.0	white, brown	88
CF211.011	4x(2x0.34)	black/brown, red/orange, green/yellow, blue/ violet	<b>8</b> 0
UF211.UT1	4x0.5	black-white, red-white, yellow-white, blue-white	000

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Example image

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Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

Part No.	Core group	Colour code	Core design
	4x(2x0.25)C	white/brown, green/yellow, grey/pink, blue/red	
CF211.014 -	(2x0.5)	black no. 1/black no. 2	000
05011.015	4x(2x0.14)	brown/green, yellow/violet, grey/pink, red/black	080
CF211.015	4x0.5	blue, white, brown-green, white-green	000
CF211.016	3x(2x0.25)C	white/brown, green/yellow, grey/pink	
	4x(2x0.14)	red/black, brown/green, yellow/violet, grey/pink	
CF211.017	(4x0.14)C	blue-black/yellow-black/red-black/green-black	
	4x1.0	white-green, brown-green, blue, white	0000
CF211.018	2x(2x0.25)	red/black, grey/pink	8
GF211.010	2x0.5	white, brown	880
	3x(2x0.25)C	brown/green, grey/pink, red/black	
CF211.019	(3x0.25)	blue/violet/yellow	
	2x1.0	white, brown	
CF211.022	(2x0.25)	white/brown	
01 211.022	5x0.5	green, yellow, grey, pink, blue	Ŏ <del>Ŏ</del> Ŏ
	5x0.5	green, yellow, grey, pink, blue	

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Measuring system cable (Class 4.2.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant

Part No.	Core group	Colour code	Core design
CF211.024	(4x0.14)	yellow/grey/violet/pink	
GF211.024	2x(2x0.34)	white-green/white, brown-green/blue	
	5x(2x0.14)	brown/green, yellow/grey, white/violet, red/black, pink/blue	808
CF211.027	2x0.5	white-green, white-red	8000
05044.000	2x(2x0.15)	green/yellow, pink/blue	
CF211.028	(2x0.38)	red/black	88
05011.000	3x(2x0.25)C	white/brown, green/yellow, grey/pink	000
CF211.030	2x(2x0.25)	blue/red, black/violet	00
CF211.032	3x(2x0.14)C	green/black, yellow/black, red/black	
GF211.U32	(3x0.14)C	grey/pink/black	
05211.022	4x(2x0.14)C	yellow/black, red/black, blue/black, green/black	
CF211.033	2x(1.0)C	white, brown	00
CF211.036	5x(2x0.25)	white/brown, green/yellow, grey/pink, blue/red, black/violet	

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		Colour code	Core design
CF211.037	6x(2x0.25)	white/brown, green/yellow, grey/pink, blue/red, black/violet, grey-pink/red-blue	
05011.000	3x(2x0.14)	white/brown, green/yellow, grey/pink	
CF211.038	(2x0.34)	blue/red	0
	(4x(2x0.14)C	green/yellow, grey/pink, blue/red, black/violet	
CF211.039	2x(0.5)C	white, brown	
CF211.041	2x(2x0.18)	white/brown, black/violet	0000
57211.041	5x0.5	blue, violet, green, yellow, grey	000
	3x(2x0.18)	white/black, red/white, black/red	
CF211.042	6x0.5	black no. 1, black no. 2, black no. 3, red no. 4, red no. 5, red no. 6	

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