

# PVC Measuring system cable | CF211

- for medium load requirements
- PVC outer jacket
- shielded
- oil-resistant
- flame-retardant

**Bending radius is reduced by 20%!**

- Conductor** Very finely stranded special cores of particularly high-flex design made of tinned copper wires.
- Core insulation** Mechanically high-quality PP mixture.
- Core stranding** According to measuring system specification.
- Core identification** According to measuring system specification  
▶ Schedule delivery program
- Element shield** Extremely bending-resistant, tinned copper cover. Coverage approx. 90% optical.
- Element jacket** TPE mixture adapted to suit the requirements in energy chains® over pair shield.
- Intermediate layer** Foil taping over the external layer.
- Overall shield** Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
- Outer jacket** Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in energy chains® (following DIN VDE 0281 Part 13).  
Colour: Silver grey (similar to RAL 7001)  
Colour: Yellow green (similar to RAL 6018) – starting from manufacturing date 5/2012
- Bending radius** **moved** minimum 10 x d  
**fixed** minimum 5 x d
- Temperature** **moved** +5 °C to +70 °C for use in energy chains® with > 50.000 cycles  
-5 °C to +70 °C following DIN EN 60811, part 1-4 chapter 8.2  
**fixed** -20 °C to +70 °C
- v max. unsupported/gliding** 5 m/s, 3 m/s
- a max.** 30 m/s²
- Travel distance** Freely suspended travel distances and up to 10 m for gliding applications, Class 2
- Nominal voltage** 50 V
- Testing voltage** 500 V

eplan download, configurator ▶ [www.igus.eu/CF211M](http://www.igus.eu/CF211M)

**1030 types from stock no cutting costs ...**  
(for up to 10 cuts of the same type)

## Class 4.2.2 (4 medium load requirements 2 travel distance up to 10 m 2 oil-resistant)

- Oil** Oil-resistant (following DIN EN 50363-4-1), Class 2.
- Flame-retardant** According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
- Silicon-free** Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
- UL/CSA** Style 1589 and 2502, 30 V, 80 °C
- NFPA** Following NFPA 79-2012 chapter 12.9
- CEI** Following CEI 20-35
- CE** Following 2006/95/EG
- Lead free** Following 2011/65/EC (RoHS-II)
- Clean room** According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested by IPA according to standard 14644-1.
- CTP** Certified according to N° C-DE.PB49.V.00396
- EAC** Certified according to N° TC RU C-DE.ME77.B.00960

**New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ▶ Page 22-25**

Double strokes*		5 million	7,5 million	10 million
Temperature, from/to [°C]	v max. [m/s]	<i>R</i> min. [factor x d]	<i>R</i> min. [factor x d]	<i>R</i> min. [factor x d]
-5 / +5	unsupported	12,5	13,5	14,5
+5 / +60	gliding	10	11	12
+60 / +70	a max. [m/s²]	12,5	13,5	14,5
	Travel distance [m]			

\* higher number of double strokes possible

### Typical application area

- for medium load requirements
- light oil influence
- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- freely suspended travel distances and up to 10 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packages machines, handling, indoor cranes, wood/stone processing



Three energy chain systems® in several axes fitted with specially cables from igus®. e-chain®: System E4/00 and System E4/0

**... no minimum order quantity ...**

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | [info@igus.de](mailto:info@igus.de) | [www.chainflex.eu](http://www.chainflex.eu)





Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]	Delivery program Part No.	Core group	Colour code
CF211.001	(3x(2x0,14)C+(4x0,14)+(2x0,5)C)	9,0	63	102	CF211.001	3x(2x0,14)C (4x0,14) (2x0,5)	green/yellow, black/brown, red/orange grey/blue/white-yellow/white-black brown-red/brown-blue
CF211.002	(3x(2x0,14)C+2x(0,5)C)C	9,5	65	108	CF211.002	3x(2x0,14)C 2x(0,5)C	green/yellow, black/brown, red/orange black, red
CF211.006	(3x(2x0,14)C+(4x0,14)+(4x0,25)+(2x0,5)C)	10,0	80	126	CF211.006	3x(2x0,14)C (4x0,14) (4x0,25) (2x0,5)	green/yellow, black/brown, red/orange grey/blue/white-yellow/white-black brown-yellow/brown-grey/green-black/green-red brown-red/brown-blue
CF211.009	(4x(2x0,25)+2x0,5)C	8,0	51	81	CF211.009	4x(2x0,25) 2x0,5	brown/green, blue/fioletowy, grey/pink, red/black white, brown
CF211.010	(4x(2x0,25)+2x1,0)C	8,5	63	95	CF211.010	4x(2x0,25) 2x1,0	brown/green, blue/fioletowy, grey/pink, red/black white, brown
CF211.011	(4x(2x0,34)+4x0,5)C	9,0	72	107	CF211.011	4x(2x0,34) 4x0,5	black/brown, red/orange, green/yellow, blue/fioletowy black-white, red-white, yellow-white, blue-white
CF211.014	(4x(2x0,25)C+1x2x0,5)C	10,0	78	125	CF211.014	4x(2x0,25)C (2x0,5)	white/brown, green/yellow, grey/pink, blue/red black no.1/black no.2
CF211.016	(3x(2x0,25)C)C	9,0	52	89	CF211.016	3x(2x0,25)C	white/brown, green/yellow, grey/pink
CF211.017	(4x(2x0,14)+(4x0,14)C+4x1,0)C	10,0	94	141	CF211.017	4x(2x0,14) (4x0,14)C 4x1,0	red/black, brown/green, yellow/fioletowy, grey/pink blue-black/yellow-black/red-black/green-black white-green, brown-green, blue, white
CF211.018	(2x(2x0,25)+2x0,5)C	6,5	35	58	CF211.018	2x(2x0,25) 2x0,5	red/black, grey/pink white, brown
CF211.019	(3x(2x0,25)C+(3x0,25)+2x1,0)C	10,0	85	129	CF211.019	3x(2x0,25)C (3x0,25) 2x1,0	brown/green, grey/pink, red/black blue/fioletowy/yellow white, brown

Other types available on request.

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Other types ► Page 210

**1030 types from stock no cutting costs ...**  
(for up to 10 cuts of the same type)



eplan download, configurator ► [www.igus.eu/CF211M](http://www.igus.eu/CF211M)

**... no minimum order quantity ...**

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu






Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]	Delivery program Part No.	Core group	Colour code
CF211.020	(3x(2x0,14)+2x(4x0,14)+(2x0,5)C)C	8,5	54	92	CF211.020	3x(2x0,14) 2x(4x0,14) (2x0,5)	blue/red, black/fioletowy, grey-pink/red-blue green/grey/yellow/pink, white-green/white-yellow/brown-green/brown-yellow white/brown
CF211.022	((2x0,25)+5x0,5)C	7,0	47	74	CF211.022	(2x0,25) 5x0,5	white/brown/grey/black black no.1/white/black no. 2/yellow, black no. 3/white/black no. 4/grey,
CF211.024	((4x0,14)+2x(2x0,34))C	7,0	37	63	CF211.024	(4x0,14) 2x(2x0,34)	black no. 5/black/black no. 6/orange yellow/grey/fioletowy/pink
CF211.027	(5x(2x0,14)+2x0,5)C	8,0	46	78	CF211.027	5x(2x0,14) 2x0,5	white-green/white, brown-green/blue brown/green, yellow/grey, white/fioletowy, red-black, pink/blue
CF211.028	(2x(2x0,20)+(2x0,38))C	8,0	37	79	CF211.028	(2x(2x0,15) (2x0,38)	white-green, white-red green/yellow, pink/blue
CF211.036	(5x(2x0,25))C	8,0	44	74	CF211.036	5x(2x0,25)	red/black
CF211.037	(6x(2x0,25))C	8,5	52	86	CF211.037	6x(2x0,25)	white/brown, green/yellow, grey/pink, blue/red, black/fioletowy white/brown, green/yellow, grey/pink, blue/red, black/fioletowy, grey-pink/red-blue
CF211.038	(3x(2x0,14)+(2x0,34))C	7,0	33	58	CF211.038	3x(2x0,14) (2x0,34)	white/brown, green/yellow, grey/pink blue/red

Other types available on request.

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core

 **Order example: CF211.001 – in your desired length (0,5 m steps)**  
CF211 chainflex® series .001 Code Measuring system

 **prices** price list online  
[www.chainflex.eu/CF211M](http://www.chainflex.eu/CF211M)

 **delivery time** despatched in  
24 hours or today

 eplan download, configurator ► [www.igus.eu/CF211M](http://www.igus.eu/CF211M)

Other types ► Page 208

**1030 types from stock no cutting costs ...**  
(for up to 10 cuts of the same type)

**... no minimum order quantity ...**  
igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | [info@igus.de](mailto:info@igus.de) | [www.chainflex.eu](http://www.chainflex.eu)