


















PVC Data cable | CF211









- for high load requirements
- PVC outer jacket
- shielded
- twisted-pair
- oil-resistant
- flame-retardant

-  **Conductor** Very finely stranded special cores of particularly high-flex design made of bare copper wires.
-  **Core insulation** Mechanically high-quality PP mixture.
-  **Core stranding** 2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
-  **Core identification** Colour code in accordance with DIN 47100.
-  **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)
-  **Bending radius**
moved minimum 7,5 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.** 50 m/s²
-  **Travel distance** Freely suspended and gliding travel distances up to 100 m, Class 3
-  **Nominal voltage** 300/300 V (following DIN VDE 0245).
-  **Testing voltage** 1500 V
-  **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).

 eplan download, configurator ► www.igus.eu/CF211

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

Class 5.4.2 (5 high load requirements 4 travel distance up to 100 m 2 oil-resistant)

-  **UL/CSA** Style 10493 and 2464, 300 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 1. Outer jacket material complies with CF240.02.24, 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] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5 / +15					10	11	12
+15 / +60	5	3	50	≤ 100	7,5	8,5	9,5
+60 / +70					10	11	12

* higher number of double strokes possible

Typical application area

- for high load requirements
- light oil influence
- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- especially for freely suspended and gliding travel distances up to 100 m
- Storage and retrieval units for high-bay warehouses, machining units/packages machines, handling, indoor cranes

Delivery program Measuring system cables

- Page 206, CF211 (PVC)
- Page 212, CF111.D (TPE)
- Page 224, CF11.D (TPE)

... 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 [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF211.02.01.02	(2x0,25)C	5,0	15	32
CF211.02.02.02 ⁽²⁾	(4x0,25)C	6,0	22	48
CF211.02.03.02	(3x(2x0,25))C	7,0	31	63
CF211.02.04.02	(4x(2x0,25))C	8,0	39	78
CF211.02.05.02	(5x(2x0,25))C	8,5	50	90
CF211.02.06.02	(6x(2x0,25))C	9,0	59	109
CF211.02.08.02	(8x(2x0,25))C	10,5	77	136
CF211.02.10.02	(10x(2x0,25))C	12,0	95	164
CF211.02.14.02	(14x(2x0,25))C	12,0	127	212
CF211.03.03.02	(3x(2x0,34))C	8,0	47	84
CF211.03.08.02	(8x(2x0,34))C	11,5	108	212
CF211.03.10.02 ⁽¹⁾	(10x(2x0,34))C	13,0	119	197
CF211.05.01.02	(2x0,5)C	6,0	26	53
CF211.05.02.02 ⁽²⁾	(4x0,5)C	7,0	49	85
CF211.05.03.02	(3x(2x0,5))C	9,0	63	106
CF211.05.04.02	(4x(2x0,5))C	9,5	75	127
CF211.05.05.02	(5x(2x0,5))C	11,0	88	153
CF211.05.06.02	(6x(2x0,5))C	11,5	109	195
CF211.05.08.02	(8x(2x0,5))C	13,0	137	243
CF211.05.10.02	(10x(2x0,5))C	15,0	193	338
CF211.05.14.02	(14x(2x0,5))C	16,0	206	354

(1) Delivery time upon inquiry.

The chainflex® types marked with (2) are cables designed as a star-quad.

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: CF211.02.04.02 – in your desired length (0,5 m steps)**
CF211 chainflex® series .02 Code nominal cross section .04 Number of pairs .02 Identification pairs

 **prices** price list online
www.chainflex.eu/CF211

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

 eplan download, configurator ► www.igus.eu/CF211

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 | www.chainflex.eu

