















# PVC Servo cable | CF210.UL















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

	<b>Conductor</b>	Stranded conductor in bending-resistant version consisting of bare copper wires (following EN 60228).
	<b>Core insulation</b>	Mechanically high-quality, especially low-capacitance TPE mixture.
	<b>Core stranding</b>	Energy conductor with signal pair elements stranded together with elements for high tensile stresses.
	<b>Core identification</b>	<b>Energy conductor:</b> Cores black with white numerals, one core green-yellow. 1. core: U / L1 / C / L+    2. core: V / L2 3. core: W / L3 / D / L- <b>1 signal pair:</b> Cores black with white numerals. 1. control core: 4            2. control core: 5 <b>2 signal pairs:</b> Cores black with white numerals. 1. control core: 5            2. control core: 6 3. control core: 7            4. control core: 8 <b>Star-quad:</b> yellow, black, red, white
	<b>Element shield</b>	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
	<b>Intermediate layer</b>	Foil taping over the external layer.
	<b>Overall shield</b>	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
	<b>Outer jacket</b>	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: Pastel orange (similar to RAL 2003)
	<b>Bending radius</b>	<b>moved</b> minimum 10 x d <b>fixed</b> minimum 5 x d
	<b>Temperature</b>	<b>moved</b> +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 <b>fixed</b> -20 °C to +70 °C
	<b>v max.</b>	10 m/s
	<b>freely suspended</b>	
	<b>a max.</b>	50 m/s²
	<b>Travel distance</b>	Freely suspended travel distances and up to 10 m for gliding applications, Class 2

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(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)

	<b>UV-resistant</b>	Medium
	<b>Nominal voltage</b>	600/1000 V (following DIN VDE 0250).
	<b>Testing voltage</b>	4000 V (following DIN VDE 0281-2).
	<b>Oil</b>	Oil-resistant (following DIN EN 50363-4-1), Class 2.
	<b>Flame-retardant</b>	According to IEC 60332-1-2, CEI 20-35, FT1
	<b>Silicon-free</b>	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	<b>UL/CSA</b>	Style 10989 and 2570, 1000 V, 80 °C
	<b>NFPA</b>	Following NFPA 79-2012 chapter 12.9
	<b>CEI</b>	Following CEI 20-35
	<b>CE</b>	Following 2006/95/EG
	<b>Lead free</b>	Following 2011/65/EC (RoHS-II)
	<b>Clean room</b>	According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested by IPA according to standard 14644-1.
	<b>CTP</b>	Certified according to N° C-DE.PB49.V.00397
	<b>EAC</b>	Certified according to N° TC RU C-DE.ME77.B.00964

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Double strokes*	5 million		7,5 million		10 million	
Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s²] gliding	Travel distance [m]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-5 / +5			≤ 10	12,5	13,5	14,5
+5 / +60	10	2		10	11	12
+60 / +70				12,5	13,5	14,5

\* 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
- Wood/stone processing, packaging industry, supply system, handling, adjusting equipment

**... 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 <sup>2</sup> ]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
<b>1 signal pair shielded</b>				
CF210.UL.15.15.02.01	(4 G 1,5+(2x1,5)C)C	12,0	164	263
CF210.UL.25.15.02.01	(4 G 2,5+(2x1,5)C)C	13,5	223	340
CF210.UL.40.15.02.01	(4 G 4,0+(2x1,5)C)C	15,0	300	448
CF210.UL.60.15.02.01 <sup>(1)</sup>	(4 G 6,0+(2x1,5)C)C	16,5	401	557
<b>2 signal pairs shielded</b>				
CF210.UL.15.07.02.02	(4 G 1,5+2x(2x0,75)C)C	13,5	185	309
CF210.UL.25.15.02.02	(4 G 2,5+2x(2x1,5)C)C	16,0	286	439
CF210.UL.40.15.02.02	(4 G 4,0+2x(2x1,5)C)C	17,0	363	543
CF210.UL.60.15.02.02 <sup>(1)</sup>	(4 G 6,0+2x(2x1,5)C)C	18,5	468	674

(1) Delivery time upon inquiry.

**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: CF210.UL.25.15.02.01 – in your desired length (0,5 m steps)**  
CF210.UL chainflex® series .25 Code nominal cross section .15 Code nominal cross section signalpairs  
.02 Identification pairs .01 Number of pairs

 **prices** price list online  
[www.chainflex.eu/CF210UL](http://www.chainflex.eu/CF210UL)

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

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