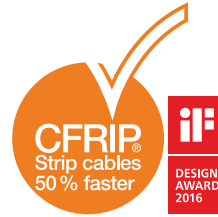


Servo cable | PVC | chainflex® CF21.UJL

- For heavy duty applications
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame retardant



Dynamic information

	Bend radius	e-chain® linear	minimum 7.5 x d
		flexible	minimum 6 x d
		fixed	minimum 4 x d
	Temperature	e-chain® linear	+5 °C to +70 °C
		flexible	-5 °C to +70 °C (following DIN EN 60811-504)
		fixed	-15 °C to +70 °C (following DIN EN 50305)
	v max.	unsupported	10 m/s
		gliding	5 m/s
	a max.		80 m/s²
	Travel distance	Unsupported travel distances and up to 100 m for gliding applications, Class 5	

Cable structure

	Conductor	Stranded conductor in especially bending-resistant design consisting of bare copper wires (following DIN EN 60228).
	Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
	Core structure	Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.
	Core identification	Power cores: Black cores with white numerals, one core green-yellow. 1. Core: U / L1 / C / L+ 2. Core: V / L2 3. Core: W / L3 / D / L- 1 Control pair: Black cores with white numerals. 1. Control core: 4 2. Control core: 5 2 Control pairs: Black cores with white numerals. 1. Control core: 5 2. Control core: 6 3. Control core: 7 4. Control core: 8
	Element shield	Extremely bending-resistant braiding made of tinned copper wires.
	Inner jacket	PVC mixture, adapted to suit the requirements in e-chains®.
	Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70 % linear, approx. 90 % optical
	Outer jacket	Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-4-1). Colour: Moss green (similar to RAL 6005)
	CFRIP®	Strip cables faster: a tear strip is moulded into the inner jacket Video ► www.igus.eu/CFRIP

Class 5.5.2.1

Electrical information

	Nominal voltage	600/1000 V (following DIN VDE 0298-3)
	Testing voltage	4000 V (following DIN EN 50395)

Properties and approvals

	UV resistance	Medium.
	Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2.
	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 10492 and 2570, 1000 V, 80 °C
	NFPA	Following NFPA 79-2012 chapter 12.9.
	EAC	Certificate no. RU C-DE.ME77.B.02324 (TR ZU)
	CTP	Certificate no. C-DE.PB49.B.00420 (Fire safety)
	CEI	Following CEI 20-35.
	Lead-free	Following 2011/65/EU (RoHS-II).
	Cleanroom	According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested by IPA according to standard 14644-1.
	CE	Following 2014/35/EU.

Guaranteed lifetime according to guarantee conditions (Page 22-23)

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	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

* Higher number of double strokes? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For heavy duty applications
- Light oil influence
- Preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- Unsupported travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/ packaging machines, quick handling equipment, indoor cranes



Servo cable | PVC | chainflex® CF21.UL

Class 5.5.2.1

Strip cables 50% faster

igus® chainflex® CF21.UL

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]
1 Control pair shielded				
CF21.07.05.02.01.UL	(4G0.75+(2x0.5)C)C	11.5	87	189
CF21.15.15.02.01.UL	(4G1.5+(2x1.5)C)C	13.0	159	281
CF21.25.15.02.01.UL	(4G2.5+(2x1.5)C)C	14.5	217	348
CF21.40.15.02.01.UL	(4G4.0+(2x1.5)C)C	16.0	282	440
CF21.60.15.02.01.UL	(4G6.0+(2x1.5)C)C	18.0	368	581
CF21.100.15.02.01.UL	(4G10.0+(2x1.5)C)C	22.5	586	910
2 Control pairs shielded				
CF21.07.03.02.02.UL	(4G0.75+2x(2x0.34)C)C	12.5	116	230
CF21.10.07.02.02.UL	(4G1.0+2x(2x0.75)C)C	13.5	168	293
CF21.15.07.02.02.UL	(4G1.5+2x(2x0.75)C)C	14.5	192	340
CF21.25.15.02.02.UL	(4G2.5+2x(2x1.5)C)C	17.0	285	476
CF21.40.15.02.02.UL	(4G4.0+2x(2x1.5)C)C	18.5	346	560
CF21.60.15.02.02.UL	(4G6.0+2x(2x1.5)C)C	21.5	450	754
CF21.100.15.02.02.UL	(4G10.0+2x(2x1.5)C)C	24.0	654	1016
CF21.160.15.02.02.UL	(4G16.0+2x(2x1.5)C)C	27.5	959	1393
CF21.250.15.02.02.UL ¹⁾	(4G25.0+2x(2x1.5)C)C	31.0	1359	1919
CF21.350.15.02.02.UL	(4G35.0+2x(2x1.5)C)C	34.0	1810	2442

¹⁾ Phase-out model
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



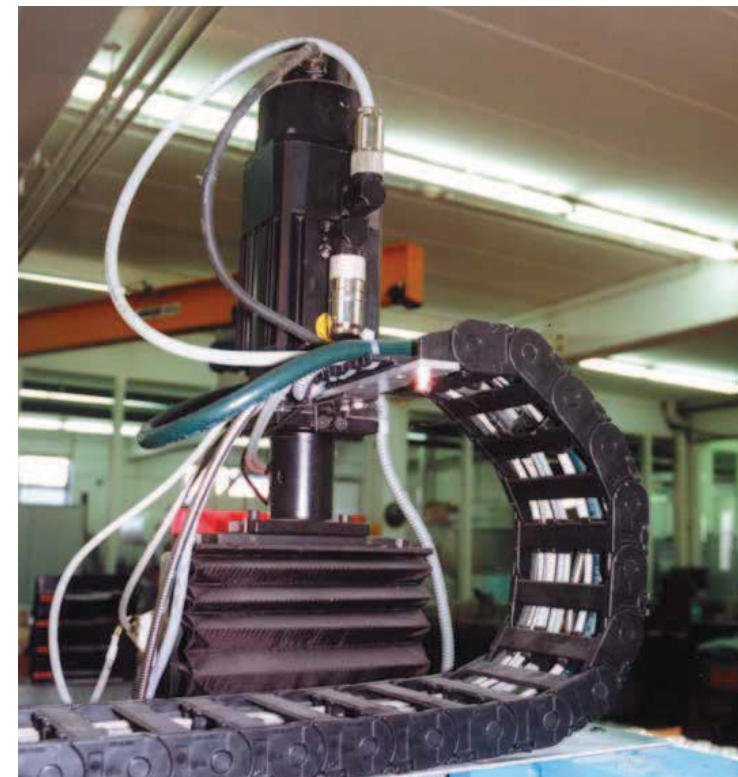
Order example: **CF21.40.15.02.01.UL** – to your desired length (0.5 m steps)
CF21.UL chainflex® series .40 Nominal cross section code .15 Nominal cross section code signal pairs
.02 Identification pairs .01 Number of pairs



Online order ► www.chainflex.eu/CF21.UL



Delivery time 24h or today.
Delivery time means time until shipping of goods.



chainflex® CF21.UL: cables for energy supply systems in spinneret production. e-chain®: E2/000

