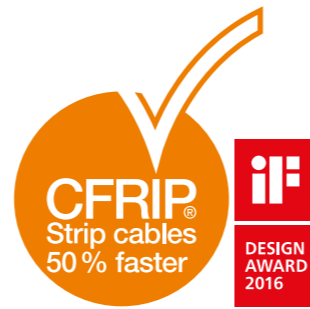


PVC Control cable | CF130-UL

- For medium mechanical load requirements
- PVC outer jacket
- Flame-retardant



Dynamic Information

	Bend radius	E-Chain®	min. 7.5 x d
		flexible	min. 6 x d
		fixed	min. 4 x d
	Temperature	E-Chain®	+41 °F to +158 °F (+5 °C to +70 °C)
		flexible	+23 °F to +158 °F (-5 °C to +70 °C)
		fixed	+5 °F to +158 °F (-15 °C to +70 °C)
	v max.	unsupported	9.84 ft/s (3 m/s)
		gliding	6.56 ft/s (2 m/s)
	a max.	65.6 ft/s² (20 m/s²)	
	Travel distance	Unsupported travel distances and for gliding applications up to 164 ft (50 m), Class 4	
	Torsion	± 90°, with 3.281 ft (1 m) cable length	

Cable structure

	Conductor	Conductor consisting of bare copper wires (according to EN 60228).
	Conductor insulation	Mechanically high-quality TPE mixture.
	Conductor construction	Number of conductors < 12: Conductors cabled in a layer with short pitch length. Number of conductors ≥ 12: Conductors combined in bundles and stranded together around a high-tensile strength core, using short pitch directions for a low-torsion cable structure.
	Color code	24-22 AWG: Color code in accordance with DIN 47100. 20-4 AWG: Black with white numbers, one conductor green-yellow.
	Outer jacket	Low-adhesion mixture on the basis of PVC, adapted to suit the requirements in E-Chains® (following DIN VDE 0281 Part 5). Color: Gray (RAL 7001)
	CFRIP®	Strip cables 50% faster: The tear strip is in the outer jacket Video ▶ www.igus.com/CFRIP

Electrical Information

	Nominal voltage	300 V
	Testing voltage	2000 V (following DIN EN 50396)

Configurators ▶ www.igus.com/CF130

Requirements	low	1	2	3	4	5	6	7	highest
Travel distance	unsupported	1	2	3	4	5	6	7	1,312 ft +
Oil-resistance	none	1	2	3	4	highest			
Torsion	none	1	2	3	±180°				

Class 4.4.1.2

Properties and approvals

	Flame resistance	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
	Silicon-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	UL/CSA	Style 10493 and 20200, 300 V, 60 °C
	NFFPA 79	Complies to NFFPA 79-2015 chapter 12.9
	EAC	Certified according to no. TC RU C-DE.ME77.B.01254
	CTP	Certified according to no. C-DE.PB49.B.00416
	CEI	Following CEI 20-35
	Lead-free	Following 2011/65/EC (RoHS-II)
	Cleanroom	According to ISO Class 1. Outer jacket material complies with CF130-15-07-UL, tested by IPA according to standard 14644-1.
	CE	Following 2014/35/EG

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Cycles*	Temperature, from/to [°F]	Travel distance [ft]	5 million		7.5 million		10 million	
			R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
	+41 / +59	≤ 164	< 32.81 ft	≥ 32.81 ft	< 32.81 ft	≥ 32.81 ft	< 32.81 ft	≥ 32.81 ft
	+59 / +140	≤ 164	10	12.5	11	13.5	12	14.5
	+140 / +158	≤ 164	7.5	10	8.5	11	9.5	12
	+140 / +158	≤ 164	10	12.5	11	13.5	12	14.5

* Higher number of cycles possible - please ask for your individual calculation.

Typical application areas

- For medium mechanical load requirements
- Without influence of oil
- Preferably indoor applications
- Unsupported travel distances and for gliding applications up to 164 ft (50 m)
- Wood/stone processing, packaging industry, supply systems, Handling, adjusting equipment



Chainflex® CF130.UL for woodworking. E-Chain®: E4/light



PVC Control cable | CF130-UL

Strip cables 50 % faster

IGUS® CHAINFLEX® CF130.UL

Image exemplary.

Part No.	AWG	Number of conductors and rated cross section [mm ²]	Outer diameter max.		Copper index		Weight	
			in.	mm	lbs/mft	kg/km	lbs/mft	kg/km
CF130-02-03-UL	24	3 x 0.25	0.20	5.0	6.0	9	16.8	25
CF130-02-04-UL	24	4 x 0.25	0.22	5.5	7.4	11	19.5	29
CF130-02-06-UL	24	6 x 0.25	0.24	6.0	11.4	17	32.9	49
CF130-02-07-UL	24	7 x 0.25	0.26	6.5	13.4	20	31.6	47
CF130-02-12-UL	24	12 x 0.25	0.33	8.5	23.5	35	65.9	98
CF130-02-20-UL	24	20 x 0.25	0.41	10.5	36.3	54	99.5	148
CF130-02-25-UL	24	25 x 0.25	0.45	11.5	47.0	70	106.2	158
CF130-02-30-UL	24	30 x 0.25	0.49	12.5	53.8	80	127.0	189
CF130-03-02-UL	22	2 x 0.34	0.20	5.0	5.4	8	17.5	26
CF130-03-05-UL	22	5 x 0.34	0.24	6.0	12.8	19	27.6	41
CF130-05-02-UL	20	2 x 0.5	0.22	5.5	7.4	11	25.5	38
CF130-05-03-UL	20	3 G 0.5	0.22	5.5	11.4	17	26.9	40
CF130-05-04-UL	20	4 G 0.5	0.24	6.0	14.8	22	32.3	48
CF130-05-05-UL	20	5 G 0.5	0.26	6.5	18.8	28	38.3	57
CF130-05-07-UL	20	7 G 0.5	0.30	7.5	26.2	39	52.4	78
CF130-05-12-UL	20	12 G 0.5	0.39	10.0	44.3	66	96.1	143
CF130-05-18-UL	20	18 G 0.5	0.47	12.0	66.5	99	126.3	188
CF130-05-25-UL	20	25 G 0.5	0.53	13.5	92.7	138	180.1	268
CF130-07-02-UL	18	2 x 0.75	0.24	6.0	10.8	16	28.2	42
CF130-07-03-UL	18	3 G 0.75	0.24	6.0	16.1	24	34.3	51
CF130-07-04-UL	18	4 G 0.75	0.26	6.5	21.5	32	39.6	59
CF130-07-05-UL	18	5 G 0.75	0.28	7.0	26.9	40	47.7	71
CF130-07-07-UL	18	7 G 0.75	0.31	8.0	37.6	56	65.9	98
CF130-07-12-UL	18	12 G 0.75	0.43	11.0	64.5	96	106.2	158
CF130-07-18-UL	18	18 G 0.75	0.53	13.5	96.1	143	157.9	235
CF130-07-25-UL	18	25 G 0.75	0.63	16.0	133.0	198	238.5	355
CF130-07-36-UL	18	36 G 0.75	0.75	19.0	210.3	313	369.6	550
CF130-07-42-UL ¹⁾	18	42 G 0.75	0.83	21.0	245.3	365	424.7	632
CF130-10-02-UL	17	2 x 1.0	0.24	6.0	14.8	22	34.9	52
CF130-10-03-UL	17	3 G 1.0	0.26	6.5	21.5	32	41.7	62
CF130-10-04-UL	17	4 G 1.0	0.28	7.0	28.9	43	51.1	76
CF130-10-05-UL	17	5 G 1.0	0.30	7.5	35.6	53	61.8	92
CF130-10-07-UL	17	7 G 1.0	0.35	9.0	49.7	74	84.0	125
CF130-10-12-UL	17	12 G 1.0	0.49	12.5	85.3	127	138.4	206
CF130-10-18-UL	17	18 G 1.0	0.59	15.0	128.3	191	194.9	290
CF130-10-25-UL	17	25 G 1.0	0.69	17.5	177.4	264	276.2	411

¹⁾ Delivery time upon request. Other types available on request.
Note: The mentioned outer diameters are maximum values.
G = with green-yellow earth core x = without earth core


Class 4.4.1.2


Requirements
Travel distance
Oil-resistance
Torsion


low	1	2	3	4	5	6	7	highest
unsupported	1	2	3	4	5	6	7	1,312 ft +
none	1	2	3	4	highest			
none	1	2	3	±180°				


Part No.	AWG	Number of conductors and rated cross section [mm ²]	Outer diameter max.		Copper index		Weight	
			in.	mm	lbs/mft	kg/km	lbs/mft	kg/km
CF130-15-02-UL	16	2 x 1.5	0.28	7.0	21.5	32	43.0	64
CF130-15-03-UL	16	3 G 1.5	0.28	7.0	32.3	48	53.1	79
CF130-15-04-UL	16	4 G 1.5	0.31	8.0	43.0	64	67.2	100
CF130-15-05-UL	16	5 G 1.5	0.33	8.5	53.8	80	80.6	120
CF130-15-07-UL ¹⁷⁾	16	7 G 1.5	0.37	9.5	74.6	111	107.5	160
CF130-15-12-UL	16	12 G 1.5	0.51	13.0	128.3	191	192.9	287
CF130-15-18-UL	16	18 G 1.5	0.69	17.5	192.2	286	325.2	484
CF130-15-25-UL	16	25 G 1.5	0.77	19.5	266.1	396	414.6	617
CF130-15-36-UL ¹⁾	16	36 G 1.5	0.93	23.5	419.3	624	626.3	932
CF130-15-42-UL ¹⁾	16	42 G 1.5	1.04	26.5	489.9	729	728.4	1084
CF130-25-03-UL	14	3 G 2.5	0.33	8.5	53.8	80	82.7	123
CF130-25-04-UL	14	4 G 2.5	0.37	9.5	71.2	106	102.8	153
CF130-25-07-UL ¹⁷⁾	14	7 G 2.5	0.47	12.0	124.3	185	175.4	261
CF130-25-12-UL	14	12 G 2.5	0.69	17.5	213.0	317	356.1	530
CF130-40-03-UL	12	3 G 4.0	0.39	10.0	85.3	127	131.7	196
CF130-40-05-UL	12	5 G 4.0	0.47	12.0	142.5	212	210.3	313
CF130-60-04-UL	10	4 G 6.0	0.53	13.5	170.7	254	260.1	387
CF130-60-05-UL	10	5 G 6.0	0.57	14.5	213.0	317	313.8	467
CF130-100-05-UL ¹⁾	8	5 G 10.0	0.75	19.0	354.8	528	503.3	749
CF130-160-05-UL	6	5 G 16.0	0.89	22.5	567.8	845	762.7	1135
CF130-250-05-UL ¹⁾	4	5 G 25.0	1.10	28.0	887.0	1320	1137.0	1692

¹⁾ Delivery time upon request
¹⁷⁾ Using the cables with "7 G 1.5 mm²" and "7 G 2.5 mm²" it is essential: bending radius 17 x d with travel distance ≥ 5 m. When the travel distance is not less than 5 m, a bending radius not less than 17 x d has to be used.
Note: The mentioned outer diameters are maximum values.
G = with green-yellow earth core x = without earth core

 Order example: **CF130-05-02-UL** – In your desired length
CF130-UL Chainflex® series -05 Code nominal cross section -02 Number of conductors

 Online order: www.chainflex.com/CF130

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

 Configurators ► www.igus.com/CF130

