

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°				

PVC Control cable | CF130US

- For flexing applications
- PVC outer jacket
- Oil-resistant
- Flame-retardant
- UL Tray cable for exposed run (TC-ER)

Dynamic Information

	Bend radius	E-Chain®	min. 8 x d
		flexible	min. 7.5 x d
		fixed	min. 5 x d
	Temperature	E-Chain®	+41 °F to +176 °F (+5 °C to +80 °C)
		flexible	+23 °F to +176 °F (-5 °C to +80 °C)
		fixed	-4 °F to +194 °F (-20 °C to +90 °C)
	v max.	unsupported	9.84 ft/s (3 m/s)
		gliding	6.56 ft/s (2 m/s)
	a max.		65.6 ft/s ² (20 m/s ²)
	Travel distance		Unsupported travel distances and for gliding applications up to 30 ft (9 m), Class 1
	Torsion		± 90°, with 3.281 ft (1 m) cable length

Cable structure

	Conductor	Finely stranded bundled bare copper wires. Designed in accordance with ASTM B174-95.
	Conductor insulation	Mechanically high-quality, PVC/Nylon.
	Conductor construction	Conductors concentrically layered with short pitch.
	Color code	Black with white numbers, one green-yellow. **
	Outer jacket	Oil-resistant UV-resistant PVC, low-adhesion blend, adapted to the requirements of the Energy Chain®. Color: Gray (RAL 7001)

Electrical Information

	Nominal voltage	600 V
	Testing voltage	3300 V

** Custom color codes are available upon request.

Configurators ▶ www.igus.com/CF130US

Class 3.1.4.2

Properties and approvals

	UV resistance	Medium
	Oil resistance	Oil resistant (according to DIN EN 60811-2-1, DIN EN 50363-4-1, Class 4)
	Flame resistance	CSA AWM: FT4
	Silicon-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	UL/CSA	For installation in accordance with all applicable sections of the National Electric Code. 22-10 AWG: UL Type MTW (Machine Tool Wire), 18-10 AWG: UL Type TC (Tray Cable) UL AWM: 2587 90 °C 600V; CSA AWM: I/II A/B 90 °C 600V FT4 2002/95/EC; Please reference the Design Section for more information.
	Lead-free	In accordance with European Council Directive 73/23/EEC
	CE	
	Info	In general these cables will offer continuous-flex performance in specific “Tray Cable” and “Machine Tool Wire” NEC compliant installations. The CF130US line is designed for use in 600V control and power applications. The oil-resistant jacket also passes the stringent 70,000 BTU UL and CSA Vertical Flame Tests. Not recommended for long travel / gliding applications.

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

Cycles*				1 million	3 million	5 million
Temperature, from/to [°F]	v max. [ft/s] unsupported	a max. [ft/s ²]	Travel distance [ft]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+23 / +59				10	12	13
+59 / +140	9.84	6.56	≤ 29.52	8	10	12
+140 / +176				10	12	13

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

Typical application areas

- For medium mechanical load requirements
- Suitable for indoor/outdoor applications
- Especially for unsupported travel distances and for low-duty gliding applications up to 30 ft (9m)
- UL Tray cable for exposed run (TC-ER)
- Wood/stone processing, packaging industry, supply system, handling, adjusting equipment, machine tools



PVC Control cable | CF130US



Image exemplary.

Part No.	Number of Conductors	AWG	Strand/ AWG	Outer diameter max.		Copper index		Weight	
				in.	mm	lbs/mft	kg/km	lbs/mft	kg/km
CF130US-05-02	2	20	26/34	0.27	6.7	6.4	10	22.0	33
CF130US-05-03	3	20	26/34	0.28	7.1	10.0	15	35.0	52
CF130US-05-04	4	20	26/34	0.31	7.9	13.0	19	49.3	73
CF130US-05-05	5	20	26/34	0.33	8.4	16.0	24	56.7	84
CF130US-05-07	7	20	26/34	0.38	9.7	22.5	33	72.9	108
CF130US-05-12	12	20	26/34	0.47	11.9	38.5	57	115.8	172
CF130US-05-18	18	20	26/34	0.55	14.0	57.8	86	161.9	241
CF130US-05-25	25	20	26/34	0.66	16.6	80.3	119	215.7	321
CF130US-07-04	4	18	41/34	0.33	8.3	20.2	30	59.1	88
CF130US-07-05	5	18	41/34	0.35	8.9	25.5	38	68.5	102
CF130US-07-07	7	18	41/34	0.40	10.2	35.6	53	88.7	132
CF130US-07-12	12	18	41/34	0.50	12.7	60.5	90	143.1	213
CF130US-07-18	18	18	41/34	0.58	14.7	91.4	136	202.9	302
CF130US-07-25	25	18	41/34	0.69	17.5	126.3	188	270.8	403
CF130US-15-03	3	16	65/34	0.33	8.4	24.2	36	59.8	89
CF130US-15-04	4	16	65/34	0.35	9	32.3	48	76.6	114
CF130US-15-05	5	16	65/34	0.39	9.8	40.3	60	88.7	132
CF130US-15-07	7	16	65/34	0.44	11.3	56.4	84	129.0	192
CF130US-15-10	10	16	65/34	0.56	14.2	80.6	120	184.1	274
CF130US-15-12	12	16	65/34	0.56	14.2	96.1	143	196.2	292
CF130US-15-18	18	16	65/34	0.65	16.4	144.5	215	282.9	421
CF130US-15-22	22	16	65/34	0.71	18	176.7	263	339.3	505
CF130US-15-25	25	16	65/34	0.76	19.4	200.2	298	389.7	580
CF130US-15-33	33	16	65/34	0.85	21.6	264.8	394	556.4	828
CF130US-25-04	4	14	105/34	0.39	9.8	51.7	77	101.5	151
CF130US-25-07	7	14	105/34	0.51	13	90.7	135	170.7	254
CF130US-25-10	10	14	105/34	0.63	16	127.7	190	223.8	333
CF130US-25-12	12	14	105/34	0.61	15.6	155.9	232	269.5	401
CF130US-40-04	4	12	165/34	0.49	12.4	79.3	118	149.2	222
CF130US-60-04	4	10	259/34	0.56	14.2	129.7	193	219.7	327
CF130US-60-05	5	10	259/34	0.61	15.5	162.6	242	261.4	389

Note: The mentioned outer diameters are maximum values.

** Custom color codes are available upon request. Minimum order may apply.

Class 3.1.4.2

Requirements
Travel distance
Oil-resistance
Torsion

low	1	2	3	4	5	6	7	highest
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Order example: **CF130US-07-04** – In your desired length
CF130US Chainflex® series **-07** Code nominal cross section **-04** Number of conductors



Online order: www.chainflex.com/CF130US



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

