

**Conductor**

Fine-wire
stranded
conductor

Strain relief

Center core for
high tensile
strength

Core

Braiding in bundles
around high tensile
strength core

Outer jacket

Gusset-filling
pressure extruded

Chainflex® CF130

PVC Energy Chain® cable, flame-retardant

Construction

Conductors: Finely stranded bundled bare copper wires. According to EN 60228.

Conductor insulation: < 12 Mechanically high-quality PVC insulation; ≥ 12 TPE insulation

Conductor twisting: Number of conductors < 12, Conductors concentrically layered with short pitch. Number of conductors ≥ 12, Conductors layered in braids around a polymer, high tensile-strength core; short pitches matched in the direction of the pitch for extremely low torsion.

Conductor colors: Black with white numbers, one conductor green-yellow ≥ 20 AWG; 22 & 24 AWG color-coded in accordance with DIN 47100.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** grey (RAL 7001).

Technical Data

Minimum bending radius, moving: <10m travel = 7.5 x o.d.; ≥ 10m travel = 10 x o.d.

Minimum bending radius, fixed: 5 x outer cable diameter

Permissible temperature, moving: +23°F to +158°F (-5°C to +70°C)

Permissible temperature, fixed: -4°F to +158°F (-20°C to +70°C)

Voltage: 300V

Testing Voltage: 2000 V

Regulations: cRUus AWM: UL AWM style for USA and Canada: 20200 60°C 300V

Flame resistance: FT1, IEC 332-1, CE: 73/23/EWG, 93/68/EWG, RoHS: 2002/95/EC; Please reference the Design Section (Chapter 1) for more information.

Typical Applications

- for medium mechanical load requirements
- without influence of oil
- preferably indoor applications
- especially for freely suspended travel distances and for gliding applications up to 164 ft (50m).
- wood/stone processing, packaging industry, supply system, handling, adjusting equipment

PVC Control Cable

Chainflex® CF130

PVC Energy Chain® cable, flame-retardant



CF130

Part No.	AWG	No. of Conductors and Rated Cross-Section in mm ²	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF130-02-04	24	4 x 0.25	.22	(5.5)	6.7	(10)	24.8	(37)
CF130-03-05	22	5 x 0.34	.22	(5.5)	11.56	(17)	32.6	(48)
CF130-05-02	20	2 x 0.5	.22	(5.5)	6.8	(10)	27.2	(40)
CF130-05-03	20	3 x 0.5	.24	(6)	9.5	(14)	37.4	(55)
CF130-05-04	20	4 x 0.5	.26	(6.5)	12.9	(19)	40.8	(60)
CF130-05-05	20	5 x 0.5	.28	(7.0)	16.3	(24)	44.2	(65)
CF130-05-07	20	7 x 0.5	.31	(8)	23.1	(34)	68	(100)
CF130-05-12	20	12 x 0.5	.39	(10)	39.4	(58)	102	(150)
CF130-05-18	20	18 x 0.5	.45	(11.5)	59.2	(87)	149.6	(220)
CF130-05-25	20	25 x 0.5	.53	(13.5)	82.3	(121)	190.4	(280)
CF130-07-02	18	2 x 0.75	.24	(6)	10	(15)	33.5	(50)
CF130-07-03	18	3 x 0.75	.26	(6.5)	14.8	(22)	40.3	(60)
CF130-07-04	18	4 x 0.75	.28	(7)	19.7	(29)	54.4	(80)
CF130-07-05	18	5 x 0.75	.30	(7.5)	24.5	(36)	61.2	(90)
CF130-07-07	18	7 x 0.75	.33	(8.5)	34.0	(50)	88.4	(130)
CF130-07-12	18	12 x 0.75	.41	(10.5)	58.5	(86)	129.2	(190)
CF130-07-18	18	18 x 0.75	.49	(12.5)	88.4	(130)	183.6	(270)
CF130-07-25	18	25 x 0.75	.59	(15)	23.1	(181)	244.8	(360)
CF130-10-03	17	3 x 1.0	.28	(7)	19.7	(29)	51	(75)
CF130-10-04	17	4 x 1.0	.30	(7.5)	26.5	(39)	61.2	(90)
CF130-10-05	17	5 x 1.0	.31	(8)	32.6	(48)	74.8	(110)
CF130-10-07	17	7 x 1.0	.37	(9.5)	46.2	(68)	115.6	(170)
CF130-10-12	17	12 x 1.0	.47	(12)	78.9	(116)	163.2	(240)
CF130-10-18	17	18 x 1.0	.53	(13.5)	117.6	(173)	231.2	(340)
CF130-10-25	17	25 x 1.0	.63	(16)	163.9	(241)	299.2	(440)
CF130-15-03	16	3 x 1.5	.30	(7.0)	29.9	(44)	61.2	(90)
CF130-15-04	16	4 x 1.5	.31	(8)	39.4	(58)	81.6	(120)
CF130-15-05	16	5 x 1.5	.37	(9.5)	49.0	(72)	95.2	(140)
CF130-15-07	16	7 x 1.5	.41	(10.5)	68.7	(101)	142.8	(210)
CF130-15-12	16	12 x 1.5	.51	(13)	117.6	(173)	231.2	(340)
CF130-15-18	16	18 x 1.5	.59	(15)	176.8	(260)	312.8	(460)
CF130-15-25	16	25 x 1.5	.75	(19)	245.5	(361)	421.6	(620)
CF130-25-04	14	4 x 2.5	.39	(10)	65.3	(96)	122.4	(180)
CF130-25-07	14	7 x 2.5	.51	(13)	114.2	(168)	238	(350)
CF130-25-12	14	12 x 2.5	.63	(16)	197.2	(290)	197.2	(490)
CF130-40-03	12	3 x 4.0	.43	(11.0)	77.3	(115)	134.4	(200)
CF130-40-06	12	6 x 4.0	.55	(14.0)	156.4	(230)	265.2	(390)
CF130-60-04	10	4 x 6.0	.53	(13.5)	156.4	(230)	265.2	(360)
CF130-60-05	10	5 x 6.0	.59	(15)	195.8	(288)	284.2	(418)

NOTE: The mentioned external diameters are maximum values.

igus® Energy Chain Systems®

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PDF: www.igus.com/pdf/chainflex.asp
Specs/CAD/RFQ: www.igus.com/chainflex.asp
RoHS info: www.igus.com/RoHS.asp

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

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