

CF130

igus<sup>®</sup>

# PVC Control Cable

Chainflex<sup>®</sup> CF130PVC Energy Chain<sup>®</sup> cable, flame-retardantCLASS  
4.2.1

Price Index



**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

## Construction

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

**Conductor insulation:** TPE insulation

**Conductor twisting:** Number of conductors < 12, Conductors concentrically layered with short pitch. Number of conductors ≥ 12, Conductors layered in braids around a, 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<sup>®</sup>. 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
- torsion +/-90° with 3 ft. of cable length
- especially for unsupported travel distances and for gliding applications up to 164 ft (50m).
- wood/stone processing, packaging industry, supply system, handling, adjusting equipment



10.64



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

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Part No.	AWG	No. of Conductors and Rated Cross- Section in mm <sup>2</sup>	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF130-02-03	24	3 x 0.24	.18	(4.5)	5.4	(8)	16.0	(24)
CF130-02-04	24	4 x 0.25	.22	(5.5)	6.7	(10)	24.8	(37)
CF130-02-06	24	6 x 0.24	.24	(6.0)	10.1	(15)	30.2	(45)
CF130-02-07	24	7 x 0.24	.26	(6.5)	12.1	(18)	31.5	(47)
CF130-02-12	24	12 x 0.24	.34	(8.5)	21.0	(31)	63.0	(94)
CF130-02-20	24	20 x 0.24	.41	(10.5)	32.9	(49)	96.0	(143)
CF130-02-25	24	25 x 0.24	.45	(11.5)	42.3	(63)	101.3	(151)
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)	68.0	(100)
CF130-05-12	20	12 x 0.5	.37	(9.5)	37.4	(55)	78.9	(116)
CF130-05-18	20	18 x 0.5	.47	(12.0)	61.2	(90)	107.5	(158)
CF130-05-25	20	25 x 0.5	.53	(13.5)	85.7	(126)	151.0	(222)
CF130-07-02	18	2 x 0.75	.24	(6.0)	10.0	(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)	55.1	(81)	101.4	(149)
CF130-07-18	18	18 x 0.75	.51	(13.0)	82.3	(121)	145.6	(214)
CF130-07-25	18	25 x 0.75	.61	(15.5)	113.6	(167)	206.1	(303)
CF130-10-02	17	2 x 1.0	.24	(6.0)	12.8	(19)	33.6	(50)
CF130-10-03	17	3 x 1.0	.28	(7)	19.7	(29)	51.0	(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	.45	(11.5)	73.5	(108)	125.9	(185)
CF130-10-18	17	18 x 1.0	.55	(14)	110.0	(161)	178.9	(263)
CF130-10-25	17	25 x 1.0	.67	(17)	152.4	(224)	252.4	(371)
CF130-15-02	16	2 x 1.5	.30	(7.5)	20.0	(29)	47.0	(70)
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)	109.5	(161)	178.9	(263)
CF130-15-18	16	18 x 1.5	.59	(15)	164.6	(242)	262.6	(386)
CF130-15-25	16	25 x 1.5	.75	(19)	238.1	(350)	368.0	(541)
CF130-25-03	14	3 x 2.5	.34	(8.5)	48.3	(72)	77.9	(116)
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)	180.3	(265)	267.2	(406)
CF130-40-03	12	3 x 4.0	.43	(11.0)	77.3	(115)	134.4	(200)
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.

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