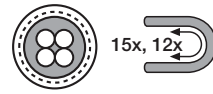


CF140

# PVC Control Cable

Chainflex® CF140

PVC Energy Chain® cable, shielded, flame-retardant



igus®

Price Index



ECONOMY



**Conductor**  
Fine wire  
stranded  
conductor

**Strain relief**  
Center core for  
high tensile  
stress

**Core**  
Braiding in  
bundles around  
high tensile  
strength core

**Inner jacket**  
Gusset-filling  
pressure  
extruded

**Overall shield**  
Bend-resistant  
braided tinned  
copper shield

**Outer jacket**  
pressure  
extruded



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

**Inner jacket:** Low-adhesion PVC blend, adapted to the requirements of the Energy Chain®.

**Shield:** Tinned copper braid 80% optical coverage

**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 outer diameter; ≥10m travel = 15 x outer diameter

**Minimum bending radius, fixed:** 7.5 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)

**Flame resistance:** FT1

**Nominal voltage:** 300V

**Testing Voltage:** 2000 V

**Regulations:** cRUus AWM: UL AWM style for USA and Canada: 20200 60°C 300V 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
- preferably indoor applications
- especially for freely suspended and gliding travel up to 164 ft (50m).
- storage and retrieval units for high-bay warehouse, machining units/packages machines, handling, indoor cranes

Internet: <http://www.igus.com>  
 email: [sales@igus.com](mailto:sales@igus.com)  
 QuickSpec: <http://www.igus.com/qs/chainflex.asp>

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

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CF140

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)
CF140-02-12	24	12 x 0.25	.35	(9.0)	36.7	(54)	81.6	(120)
CF140-03-05	22	5 x 0.34	.28	(7.0)	24.5	(36)	54.4	(80)
CF140-05-03	20	3 x 0.5	.32	(8.0)	21.5	(32)	58.5	(87)
CF140-05-05	20	5 x 0.5	.35	(9)	31.9	(47)	88.4	(130)
CF140-05-18	20	18 x 0.5	.53	(13.5)	82.9	(122)	183.6	(270)
CF140-05-36	20	36 x 0.5	.79	(20.0)	186.3	(274)	306	(450)
CF140-07-03	18	3 x 0.75	.33	(8.5)	27.9	(41)	61.2	(90)
CF140-07-04	18	4 x 0.75	.35	(9)	35.4	(52)	88.4	(130)
CF140-07-05	18	5 x 0.75	.35	(9.0)	40.1	(59)	102	(150)
CF140-07-07	18	7 x 0.75	.41	(10.5)	53	(78)	115.6	(170)
CF140-07-12	18	12 x 0.75	.49	(12.5)	76	(112)	150	(220)
CF140-07-18	18	18 x 0.75	.59	(15.0)	121	(178)	197	(289)
CF140-07-25	18	25 x 0.75	.69	(17.5)	174	(256)	232	(414)
CF140-10-03	17	3 x 1	.33	(8.5)	35.4	(52)	88.4	(130)
CF140-10-04	17	4 x 1	.37	(9.5)	41.5	(61)	102	(150)
CF140-10-05	17	5 x 1	.39	(10)	51	(75)	115.6	(170)
CF140-10-07	17	7 x 1	.45	(11.5)	67.3	(99)	136	(200)
CF140-10-12	17	12 x 1	.53	(13.5)	108	(159)	165	(243)
CF140-10-18	17	18 x 1	.65	(16.5)	154	(227)	277	(407)
CF140-10-25	17	25 x 1	.73	(18.5)	219	(322)	327	(481)
CF140-15-03	16	3 x 1.5	.37	(9.5)	44.9	(66)	102	(150)
CF140-15-04	16	4 x 1.5	.39	(10)	57.8	(85)	122.4	(180)
CF140-15-05	16	5 x 1.5	.43	(11)	70.7	(104)	149.6	(220)
CF140-15-07	16	7 x 1.5	.49	(12.5)	93.2	(137)	176.8	(260)
CF140-15-12	16	12 x 1.5	.57	(14.5)	151	(222)	277	(407)
CF140-15-18	16	18 x 1.5	.73	(18.5)	231	(339)	318	(467)
CF140-15-25	16	25 x 1.5	.87	(22.0)	327	(480)	478	(703)
CF140-25-04	14	4 x 2.5	.47	(12)	87	(128)	170	(250)

NOTE: The mentioned external diameters are maximum values.

igus® Energy Chain  
Systems®

Telephone 1-800-521-2747  
Fax 1-401-438-7270

PDF: [www.igus.com/pdf/chainflex.asp](http://www.igus.com/pdf/chainflex.asp)  
Specs/CAD/RFQ: [www.igus.com/chainflex.asp](http://www.igus.com/chainflex.asp)  
RoHS info: [www.igus.com/RoHS.asp](http://www.igus.com/RoHS.asp)

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