

CF140

CLASS
4.2.1

Price Index



PVC Control Cable

Chainflex® CF140

PVC Energy Chain® cable, shielded, flame-retardant

Conductor

Fine wire stranded
conductor

Strain relief

Center core for
high tensile
stress

Core

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

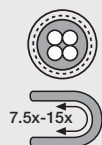
Conductors: Finely stranded bare copper wires. According to EN 60228.**Conductor insulation:** TPE insulation**Conductor twisting:** Number of conductors < 12, Conductors concentrically layered with short pitch. Number of conductors ≥ 12, Conductors layered in braids around a high tensile-strength core; short pitches matched in the direction of the pitch for extremely low torsion.**Conductor colors:** ≥ 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)**Nominal voltage:** 300V**Testing Voltage:** 2000 V**Regulations:** cRUus AWM: UL AWM style for USA and Canada: 20200 60°C 300V**Flame resistance:** IEC 60332-1-2, CEI 20-35, FT1, VW-1**NFPA 79:** Complies to NFPA 79 2012 chapter 12.9**CE:** 2006/95/EG CEI: 20-35**RoHS:** Complies to 2011/65/EU (RoHS-II)

Typical Applications

- for medium mechanical load requirements
- preferably indoor applications
- especially for unsupported and gliding travel up to 164 ft (50m).
- storage and retrieval units for high-bay warehouse, machining units/packages machines, handling, indoor cranes



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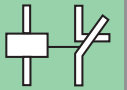
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Part No.	AWG	No. of Conductors and Rated Cross- Section in mm ²	Outer Diameter (approx) in. (mm)	Copper Index		Weight	
				lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF140-02-12	24	12 x 0.25	.39 (10)	47.0	(69)	75.5	(111)
CF140-03-05	22	5 x 0.34	.31 (8)	28.6	(42)	54.4	(80)
CF140-05-03	20	3 x 0.5	.32 (8)	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)	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)	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	.51 (13)	76	(112)	150	(220)
CF140-07-18	18	18 x 0.75	.59 (15)	121	(178)	197	(289)
CF140-07-25	18	25 x 0.75	.69 (17.5)	174	(256)	232	(414)
CF140-07-36	18	36 x 0.75	.85 (21.5)	266	(397)	487	(726)
CF140-10-02	17	2 x 1	.30 (7.5)	22.5	(33)	57.1	(84)
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)	327	(480)	478	(703)
CF140-25-03	14	3 x 2.5	.41 (10.5)	66.7	(98)	116.3	(171)
CF140-25-04	14	4 x 2.5	.47 (12)	87	(128)	170	(250)

NOTE: The mentioned external diameters are maximum values.

Internet: www.igus.com
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RFQ: www.chainflex.com/rfq



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