

CF5

iglus®

PVC Control Cable

Chainflex® CF5

PVC Energy Chain® cable, oil-resistant, flame-retardant

CLASS
5.3.2

Price Index



Conductor

Especially bend-resistant 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, oil-proof PVC blend



Construction

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

Conductor insulation: Mechanically high-quality, PVC-insulating compound.

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: 20-10AWG Conductors black with white numbers, one green-yellow: 22-24 AWG DIN 47100

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil resistant in accordance with VDE. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** green (RAL 6005).

Technical Data

Minimum bending radius, moving: <10m travel = 6.8 x outer diameter; ≥10m travel = 7.5 x outer diameter

Minimum bending radius, fixed: 4 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)

Oil-resistance: medium

UV Resistance: Medium

UL/CSA voltage: 600V

Testing voltage: 2000 V (according to DIN VDE 0281-2)

Flame resistance: FT1

Regulations: cRUus AWM: UL AWM: For USA & Canada styles; 2570 80°C 600V, **CE:** CEI 20-20, **VDE:** 0245,

RoHS: 2002/95/EC; Please reference the Design Section (Chapter 1) for more information.

Cleanroom: According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1

Typical Applications

- for high mechanical load requirements
- light oil influence
- preferably indoor applications, can be used in outdoor applications with temperatures > 23°F
- especially for unsupported travel distances and for gliding applications up to 328 ft (100m)
- torsion +/-90° with 3 ft. cable length
- storage and retrieval units for high-bay warehouses, machining units/package machines, quick handling, indoor cranes



Clean-Room

10.72

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

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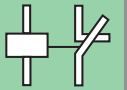
Price Index



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)
CF5-02-36	24	36 x 0.24	.59	(15)	58.5	(87)	187	(275)
CF5-03-15	22	15 x 0.34	.41	(10.5)	33.3	(49)	90.4	(133)
CF5-03-18	22	18 x 0.34	.45	(11.5)	40.1	(59)	117	(172)
CF5-03-25	22	25 x 0.34	.53	(13.5)	55.8	(82)	159.1	(234)
CF5-05-02	20	2 x 0.5	.24	(6)	6.5	(9.6)	23.1	(34)
CF5-05-03	20	3 x 0.5	.24	(6)	9.8	(14.4)	28.6	(42)
CF5-05-07	20	7 x 0.5	.31	(8)	23.1	(34)	52.4	(77)
CF5-05-12	20	12 x 0.5	.43	(11)	39.4	(58)	107.4	(158)
CF5-05-18	20	18 x 0.5	.49	(12.5)	58.5	(86)	156.4	(230)
CF5-05-25	20	25 x 0.5	.65	(16.5)	82.3	(121)	210.8	(310)
CF5-05-30	20	30 x 0.5	.69	(17.5)	97.9	(144)	273.3	(402)
CF5-07-03	18	3 x 0.75	.26	(6.5)	15	(22)	42.8	(63)
CF5-07-04	18	4 x 0.75	.28	(7)	19.7	(29)	49	(72)
CF5-07-05	18	5 x 0.75	.30	(7.5)	24.5	(36)	57.8	(85)
CF5-07-07	18	7 x 0.75	.35	(9)	34	(50)	73.4	(108)
CF5-07-12	18	12 x 0.75	.49	(12.5)	58.5	(86)	163.2	(240)
CF5-07-18	18	18 x 0.75	.59	(15)	88.4	(130)	219	(322)
CF5-07-25	18	25 x 0.75	.69	(17.5)	123.1	(181)	293.8	(432)
CF5-07-36	18	36 x 0.75	.87	(22)	176.1	(259)	383.5	(564)
CF5-07-42	18	42 x 0.75	.91	(23.5)	205.4	(302)	372.6	(610)
CF5-10-03	17	3 x 1	.26	(6.5)	19.7	(29)	42.2	(62)
CF5-10-04	17	4 x 1	.28	(7)	26.5	(39)	57.8	(85)
CF5-10-05	17	5 x 1	.35	(9)	32.6	(48)	68	(100)
CF5-10-07	17	7 x 1	.37	(9.5)	46.2	(68)	98.6	(145)
CF5-10-12	17	12 x 1	.53	(13.5)	78.9	(116)	176.8	(260)
CF5-10-18	17	18 x 1	.65	(16.5)	117.6	(173)	306	(450)
CF5-10-25	17	25 x 1	.77	(19.5)	163.9	(241)	401.2	(590)
CF5-15-03	16	3 x 1.5	.30	(7.5)	29.9	(44)	64.6	(95)
CF5-15-04	16	4 x 1.5	.30	(7.5)	39.4	(58)	81.6	(120)
CF5-15-05	16	5 x 1.5	.34	(8.5)	49	(72)	115.6	(170)
CF5-15-07	16	7 x 1.5	.41	(10.5)	68.7	(101)	149.6	(220)
CF5-15-12	16	12 x 1.5	.59	(15)	117.6	(173)	217.6	(320)
CF5-15-18	16	18 x 1.5	.75	(19)	176.8	(260)	374	(550)
CF5-15-25	16	25 x 1.5	.85	(21.5)	245.5	(361)	550.8	(810)
CF5-15-36	16	36 x 1.5	1.02	(26)	352.2	(518)	666.4	(980)
CF5-25-04	14	4 x 2.5	.45	(11.5)	65.3	(96)	136	(200)
CF5-25-05	14	5 x 2.5	.47	(12)	81.6	(120)	170	(250)
CF5-25-07	14	7 x 2.5	.57	(14.5)	114.2	(168)	231.2	(340)
CF5-25-12	14	12 x 2.5	.93	(23.5)	196.0	(288)	453.7	(667)
CF5-25-18	14	18 x 2.5	1.08	(27.5)	293.8	(432)	659.6	(970)
CF5-25-25	14	25 x 2.5	1.35	(34.5)	408	(600)	928.9	(1366)

NOTE: The mentioned external diameters are maximum values.

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 QuickSpec/RFQ: <http://www.igus.com/quickspec>



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