

Control/Power Cables



CF5



STANDARD

Chainflex® CF5

PVC Standard Energy Chain® cable, oil-proof, flame-retardant

Construction

Conductors: Finely stranded bundled bare copper wires. Designed in accordance with VDE 0295, Class 5.

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 polymer, high tensile-strength core; short pitches matched in the direction of the pitch for extremely low torsion.

Conductor colors: Conductors black with white numbers, one green-yellow <20 AWG DIN 47100

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Oil resistant in accordance with VDE. Color: green (RAL 6005).

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

UL/CSA voltage: 300V 20-16 AWG; 600V ≥ 14 AWG, **VDE voltage:** 300/600V

Regulations: **UL AWM:** Style 2464 80°C 20-16 AWG; Style 2570 80°C 14 AWG, **CSA AWM:** 80°C I/II A/B FT1 Oil Resistant, **CE:** CEI 20-20, **VDE:** 0245, **RoHS:** 2002/95/EC; See page 10.23 of the Design section for more information.

Part No.	AWG	No. of Conductors and Rated Cross-Section in mm²	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF5-02-36	24	36 x 0.24	.57	(14.5)	58.5	(87)	187	(275)
CF5-03-15	22	15 x 0.34	.39	(10)	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	.22	(5.5)	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	.51	(13)	39.4	(58)	107.4	(158)
CF5-05-18	20	18 x 0.5	.53	(13.5)	58.5	(86)	156.4	(230)
CF5-05-25	20	25 x 0.5	.67	(17)	82.3	(121)	210.8	(310)
CF5-05-30	20	30 x 0.5	.73	(18.5)	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	.31	(8)	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	.55	(14)	58.5	(86)	163.2	(240)
CF5-07-18	18	18 x 0.75	.71	(18)	88.4	(130)	219	(322)
CF5-07-25	18	25 x 0.75	.75	(19)	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	.28	(7)	19.7	(29)	42.2	(62)
CF5-10-04	17	4 x 1	.31	(8)	26.5	(39)	57.8	(85)
CF5-10-05	17	5 x 1	.31	(8)	32.6	(48)	68	(100)
CF5-10-07	17	7 x 1	.39	(10)	46.2	(68)	98.6	(145)
CF5-10-12	17	12 x 1	.59	(15)	78.9	(116)	176.8	(260)
CF5-10-18	17	18 x 1	.75	(19)	117.6	(173)	306	(450)
CF5-10-25	17	25 x 1	.79	(20)	163.9	(241)	401.2	(590)
CF5-15-03	16	3 x 1.5	.31	(8)	29.9	(44)	64.6	(95)
CF5-15-04	16	4 x 1.5	.35	(9)	39.4	(58)	81.6	(120)
CF5-15-05	16	5 x 1.5	.39	(10)	49	(72)	115.6	(170)
CF5-15-07	16	7 x 1.5	.51	(13)	68.7	(101)	149.6	(220)
CF5-15-12	16	12 x 1.5	.63	(16)	117.6	(173)	217.6	(320)
CF5-15-18	16	18 x 1.5	.87	(22)	176.8	(260)	374	(550)
CF5-15-25	16	25 x 1.5	.94	(24)	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	.43	(11)	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	.59	(15)	114.2	(168)	231.2	(340)
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	1.24	(31.5)	408	(600)	928.9	(1366)
CF5-60-05	10	5 x 6.0	.59	(15)	191.8	(282)	284.2	(418)

NOTE: The mentioned external diameters are maximum values.



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