



Control Cable

Chainflex® CF130US

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



Description

In general these cables will offer continuous-flex performance in specific "Tray Cable" and "Machine Tool Wire" NEC compliant installations. The CF130US line is designed for use in 600V control and power applications. The oil-resistant jacket also passes the stringent 70,000 BTU UL and CSA Vertical Flame Tests. Not recommended for long travel / gliding applications.

Construction

Conductors: Finely stranded bundled bare copper wires. Designed in accordance with ASTM B174-95

Conductor insulation: Mechanically high-quality, PVC/Nylon

Conductor twisting: Conductors concentrically layered with short pitch.

Conductor colors: **Black with white numbers, one green-yellow.

Outer jacket: Oil-resistant UV-resistant PVC, low-adhesion blend, adapted to the requirements of the Energy Chain®

Color: Grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 8 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +176°F (-5°C to +80°C)

Voltage: 600 V

UL Listings: For installation in accordance with all applicable sections of the National Electric Code.

22 AWG - 10 AWG UL Type MTW (Machine Tool Wire), 18 AWG - 10 AWG UL Type TC (Tray Cable)

UL AWM: 2587 90°C 600V; **CSA AWM:** I/II A/B 90°C 600V FT4; **CE:** In accordance with European Council Directive 73/23/EEC, **RoHS:** 2002/95/EC; See page 10.23 of the Design section for more information.

Conductor

Fine wire
stranded
conductor

Core

Cabled in layers
around strength
core

Outer jacket

Gusset-filling
pressure
extruded

Part No.	Number of Conductors	AWG	Strand/ AWG	Outer Diameter (approx)		Copper Index		Weight	
				in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF130US-05-02	2	20	26/34	.27	(6.7)	6.4	(10)	22	(33)
CF130US-05-03	3	20	26/34	.28	(7.1)	10	(15)	35	(52)
CF130US-05-04	4	20	26/34	.31	(7.9)	13	(19)	49.3	(73)
CF130US-05-05	5	20	26/34	.33	(8.4)	16	(24)	56.7	(84)
CF130US-05-07	7	20	26/34	.38	(9.7)	22.5	(33)	72.9	(108)
CF130US-05-12	12	20	26/34	.47	(11.9)	38.5	(57)	115.8	(172)
CF130US-05-18	18	20	26/34	.55	(14.0)	57.8	(86)	161.9	(241)
CF130US-05-25	25	20	26/34	.66	(16.6)	80.3	(119)	215.7	(321)
CF130US-07-04	4	18	41/34	.33	(8.3)	20.2	(30)	59	(88)
CF130US-07-05	5	18	41/34	.35	(8.9)	25.3	(38)	68.7	(102)
CF130US-07-07	7	18	41/34	.40	(10.2)	35.4	(53)	88.5	(132)
CF130US-07-12	12	18	41/34	.50	(12.7)	60.7	(90)	143.2	(213)
CF130US-07-18	18	18	41/34	.58	(14.7)	91.1	(136)	203.2	(302)
CF130US-07-25	25	18	41/34	.69	(17.5)	126.5	(188)	270.7	(403)
CF130US-15-03	3	16	65/34	.33	(8.4)	24.1	(36)	59.5	(89)
CF130US-15-04	4	16	65/34	.36	(9.0)	32.1	(48)	76.3	(114)
CF130US-15-05	5	16	65/34	.39	(9.8)	40.2	(60)	88.9	(132)
CF130US-15-07	7	16	65/34	.45	(11.3)	56.2	(84)	129.3	(192)
CF130US-15-10	10	16	65/34	.56	(14.2)	80.3	(120)	184.7	(274)
CF130US-15-12	12	16	65/34	.56	(14.2)	96.4	(143)	196.5	(292)
CF130US-15-18	18	16	65/34	.65	(16.4)	144.5	(215)	283.1	(421)
CF130US-15-22	22	16	65/34	.71	(18.0)	176.7	(263)	339.3	(505)
CF130US-15-25	25	16	65/34	.77	(19.4)	200	(298)	389.5	(580)
CF130US-15-33	33	16	65/34	.85	(21.6)	265	(394)	556.5	(828)
CF130US-25-04	4	14	105/34	.39	(9.8)	52	(77)	101.6	(151)
CF130US-25-07	7	14	105/34	.51	(13.0)	91	(135)	170.9	(254)
CF130US-25-20	10	14	105/34	.63	(16.0)	130	(190)	225	(333)
CF130US-25-12	12	14	105/34	.62	(15.6)	156	(232)	269.7	(401)
CF130US-40-04	4	12	165/34	.49	(12.4)	79.3	(118)	149.3	(222)
CF130US-60-04	4	10	259/34	.56	(14.2)	130	(193)	220	(327)
CF130US-60-05	5	10	259/34	.61	(15.5)	162.5	(242)	261.5	(389)