

Control Cable

Chainflex® CF140US

PVC Standard Energy Chain® cable, shielded, 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 CF140US 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.

Inner jacket: Low-adhesion PVC

Shield: tinned copper

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: 10 x outer cable diameter

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

Voltage: 600 V

Regulations: **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.

Part No.	Number of Conductors	AWG	Strand/AWG	Outer Diameter (approx)		Copper Index		Weight	
				in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF140US-05-02	2	20	26/34	.35	(8.8)	14.8	(22)	55.1	(82)
CF140US-05-03	3	20	26/34	.36	(9.1)	21	(31)	66.3	(99)
CF140US-05-04	4	20	26/34	.39	(9.9)	24.6	(37)	74.8	(111)
CF140US-05-05	5	20	26/34	.41	(10.4)	28.5	(42)	87.6	(130)
CF140US-05-07	7	20	26/34	.46	(11.7)	37.3	(56)	108.2	(161)
CF140US-05-12	12	20	26/34	.55	(14.0)	61.2	(91)	165	(246)
CF140US-05-18	18	20	26/34	.64	(16.1)	84.3	(125)	219.3	(326)
CF140US-05-25	25	20	26/34	.78	(19.7)	115.3	(172)	291	(433)
CF140US-07-04	4	18	41/34	.40	(10.2)	32.2	(48)	89	(132)
CF140US-07-05	5	18	41/34	.43	(10.8)	28.7	(43)	101.2	(151)
CF140US-07-07	7	18	41/34	.48	(12.2)	51.1	(76)	126.8	(189)
CF140US-07-12	12	18	41/34	.58	(14.6)	86	(128)	196.8	(293)
CF140US-07-18	18	18	41/34	.66	(16.8)	123.2	(183)	267.8	(398)
CF140US-07-25	25	18	41/34	.78	(19.7)	161.4	(240)	283.5	(422)
CF140US-15-03	3	16	65/34	.41	(10.3)	36.7	(55)	92.6	(138)
CF140US-15-04	4	16	65/34	.43	(10.9)	46.6	(69)	108.6	(162)
CF140US-15-05	5	16	65/34	.46	(11.7)	63	(94)	125.3	(186)
CF140US-15-07	7	16	65/34	.53	(13.3)	79.5	(118)	154.5	(230)
CF140US-15-12	12	16	65/34	.64	(16.3)	118.9	(177)	250.3	(372)
CF140US-15-18	18	16	65/34	.73	(18.4)	169.5	(252)	334.6	(498)
CF140US-15-22	22	16	65/34	.76	(19.2)	203.7	(303)	385.5	(574)
CF140US-15-25	25	16	65/34	.85	(21.6)	241	(359)	455.3	(677)
CF140US-15-33	33	16	65/34	.93	(23.5)	307	(457)	578.9	(861)
CF140US-25-04	4	14	105/34	.47	(11.8)	67	(100)	137.4	(204)
CF140US-25-07	7	14	105/34	.59	(14.9)	111	(165)	217.7	(324)
CF140US-25-12	12	14	105/34	.69	(17.5)	180	(268)	326.9	(486)
CF140US-40-04	4	12	165/34	.57	(14.5)	99.3	(148)	195.8	(291)
CF140US-60-04	4	10	259/34	.64	(16.3)	155.5	(231)	270.3	(402)
CF140US-60-05	5	10	259/34	.69	(17.5)	186.5	(278)	318.5	(474)



CF140US



ECONOMY

Conductor
Fine wire
stranded
conductor

Core
Cabled in
layers around
strength core

Inner jacket
Gusset-filling
pressure
extruded

Overall shield
Bend-resistant
braided tinned
copper shield

Outer jacket
pressure
extruded