

CF140US

igus<sup>®</sup>

# PVC Control Cable

Chainflex<sup>®</sup> CF140US**PVC Energy Chain<sup>®</sup> cable, shielded, oil-resistant, flame-retardant, UL Tray cable for exposed run (TC-ER)**CLASS  
3.1.2

Price Index

**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



## 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; 85% optical coverage**Outer jacket:** Oil-resistant UV-resistant PVC, low-adhesion blend, adapted to the requirements of the Energy Chain<sup>®</sup>. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** Grey (RAL 7001)

## Technical Data

**Minimum bending radius, moving:** 10 x outer cable diameter**Minimum bending radius, fixed:** 7.5 x outer cable diameter**Permissible temperature, moving:** +23°F to +176°F (-5°C to +80°C)**Permissible temperature, fixed:** -4°F to + 194°F (-20°C to +90°C)**UV Resistance:** Medium**Voltage:** 600 V**Test voltage:** 3300 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) includes ER-exposed run**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;** Please reference the Design Section (Chapter 1) for more information.

## Typical Applications

- for medium load requirements
- suitable for indoor/outdoor applications applications
- especially for unsupported travel distances and for low-duty gliding applications up to 30 ft (9m)
- UL Tray cable for exposed run (TC-ER)
- wood/stone processing, packaging industry, supply system, handling, adjusting equipment, machine tools



10.70

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

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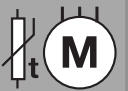
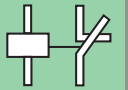


CLASS  
3.1.2

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)

\*\* Custom color codes are available upon request. Minimum order may apply

Internet: <http://www.igus.com>  
 email: [sales@igus.com](mailto:sales@igus.com)  
 QuickSpec/RFQ: <http://www.igus.com/quickspec>



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