

CF140.UL
PVC
7,5-15xd

PVC Control cable | CF140.UL

- for medium load requirements
- PVC outer jacket
- shielded
- flame-retardant



- Conductor** Fine-wire stranded conductor consisting of bare copper wires (following EN 60228).
- Core insulation** Mechanically high-quality TPE mixture.
- Core stranding** **Number of cores < 12:** cores stranded in a layer with short pitch length. **Number of cores ≥ 12:** cores combined in bundles and stranded together around a centre for high tensile stresses with adapted, short pitch lengths and pitch directions, especially low-torsion structure.
- Core identification** **Cores < 0,5 mm²:** Colour code in accordance with DIN 47100 **Cores ≥ 0,5 mm²:** cores black with white numerals, one core green-yellow
- Inner jacket** PVC mixture adapted to suit the requirements in energy chains®.
- Overall shield** Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
- Outer jacket** Low-adhesion mixture on the basis of PVC, adapted to suit the requirements in energy chains® (following DIN VDE 0281 Part 5). Colour: Silver grey (similar to RAL 7001)
- CFRIP** Strip cables 50% faster! The tear strip is in the inner jacket (starting from manufacturing date 5/2013). Video ► www.igus.eu/CFRIP
- Bending radius** **moved** < 10 m travel moved minimum 7,5 x d
≥ 10 m travel moved minimum 15 x d
fixed minimum 7,5 x d
- Temperature** **moved** +5 °C to +70 °C for use in energy chains® with > 50.000 cycles
-5 °C to +70 °C following DIN EN 60811, part 1-4 chapter 8.2
fixed -20 °C to +70 °C
- v max. unsupported/gliding** 3 m/s, 2 m/s
- a max.** 20 m/s²
- Travel distance** Freely suspended travel distances and up to 50 m for gliding applications, Class 3



Image exemplary.

Class 4.3.1 (4 medium load requirements 3 travel distance up to 50 m 1 no oil-resistance)

- Nominal voltage** **Number of cores < 12:** 300/500 V
Number of cores < 12 (0,25-0,34): 300/300 V
Number of cores ≥ 12: 300/300 V (following DIN VDE 0245).
- Testing voltage** 2000 V (following DIN VDE 0281-2).
- Flame-retardant** According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
- Silicon-free** Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
- UL/CSA** Style 10493 and 20200, 300 V, 60 °C
- NFPA** Following NFPA 79-2012 chapter 12.9
- CEI** Following CEI 20-35
- CE** Following 2006/95/EG
- Lead free** Following 2011/65/EC (RoHS-II)
- Clean room** Gemäß ISO Klasse 1. Außenmantelwerkstoff entspricht der CF130.15.07.UL, geprüft durch IPA nach Norm 146 44-1
- CTP** Certified according to N° C-DE.PB49.V.00396
- EAC** Certified according to N° TC RU C-DE.ME77.B.00960

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ► Page 22-25

Double strokes*	Travel distance [m]	5 million		7,5 million		10 million	
		R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
Temperature, from/to [°C]		< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
+5 / +15		10	12,5	11	13,5	12	14,5
+15 / +60	≤ 50	7,5	10	8,5	11	9,5	12
+60 / +70		10	12,5	11	13,5	12	14,5

* higher number of double strokes possible

Typical application area

- for medium load requirements
- without influence of oil
- preferably indoor applications
- freely suspended travel distances and up to 50 m for gliding applications
- Wood/stone processing, packaging industry, supply system, handling, adjusting equipment

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Strip cables 50% faster!

IGUS® CHAINFLEX® CF140.UL

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF140.02.12.UL	(12 x 0,25)C	10,5	76	118
CF140.03.05.UL	(5 x 0,34)C	7,5	37	74
CF140.05.03.UL	(3 G 0,5)C	7,0	34	74
CF140.05.05.UL	(5 G 0,5)C	8,5	48	94
CF140.05.18.UL	(18 G 0,5)C	14,5	156	257
CF140.05.36.UL	(36 G 0,5)C	19,0	274	485
CF140.07.03.UL	(3 G 0,75)C	8,0	44	87
CF140.07.04.UL	(4 G 0,75)C	8,5	54	104
CF140.07.05.UL	(5 G 0,75)C	9,0	64	118
CF140.07.07.UL	(7 G 0,75)C	10,0	87	156
CF140.07.12.UL	(12 G 0,75)C	13,5	145	273
CF140.07.18.UL	(18 G 0,75)C	16,0	207	372
CF140.07.25.UL	(25 G 0,75)C	18,0	278	497
CF140.07.36.UL	(36 G 0,75)C	21,5	416	764
CF140.07.42.UL ⁽¹⁾	(42 G 0,75)C	23,5	489	837
CF140.10.02.UL	(2 x 1,0)C	8,0	37	88
CF140.10.03.UL	(3 G 1,0)C	8,5	54	103
CF140.10.04.UL	(4 G 1,0)C	9,0	65	114
CF140.10.05.UL	(5 G 1,0)C	9,5	78	132
CF140.10.07.UL	(7 G 1,0)C	11,0	110	182
CF140.10.12.UL	(12 G 1,0)C	14,5	178	307
CF140.10.18.UL	(18 G 1,0)C	17,5	256	430
CF140.10.25.UL	(25 G 1,0)C	19,5	347	584
CF140.15.03.UL	(3 G 1,5)C	9,0	72	124
CF140.15.04.UL	(4 G 1,5)C	9,5	90	146
CF140.15.05.UL	(5 G 1,5)C	10,5	115	175
CF140.15.07.UL	(7 G 1,5)C	12,0	153	235
CF140.15.12.UL	(12 G 1,5)C	16,5	249	403
CF140.15.18.UL	(18 G 1,5)C	19,0	368	486
CF140.15.25.UL	(25 G 1,5)C	22,5	495	768
CF140.15.36.UL ⁽¹⁾	(36 G 1,5)C	26,5	715	1202
CF140.15.42.UL ⁽¹⁾	(42 G 1,5)C	29,5	841	1422
CF140.25.03.UL	(3 G 2,5)C	11,0	113	208
CF140.25.04.UL	(4 G 2,5)C	11,5	148	219

(1) Delivery time upon inquiry

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core x = without earth core

Class 4.3.1 (4 medium load requirements 3 travel distance up to 50 m 1 no oil-resistance)

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chainflex® CF140.UL for automatic feeder units. e-chain®: easychain®



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