PVC Control cable | CF130.UL

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

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

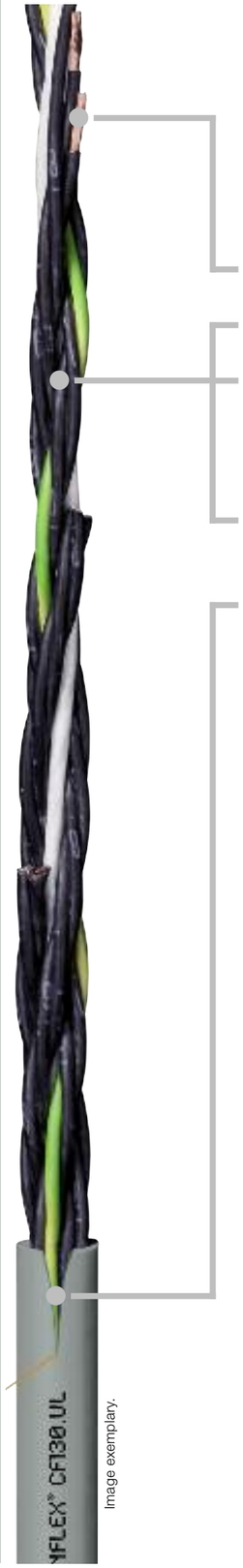

Image exemplary.

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
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 outer 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 10 x d **fixed** minimum 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
Torsion	± 90 °, with 1 m cable length
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).

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

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7,5-10xd

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	According to ISO Class 1. Outer jacket material complies with CF130.15.07.UL, tested by IPA according to standard 14644-1
CTP	Certified according to N° C-DE.PB49.V.00396
EAC	Certified according to N° TC RU C-DE.ME77.B.00960

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Double strokes*		5 million		7,5 million		10 million	
Temperature, from/to [°C]	Travel distance [m]	*R* min. [factor x d] < 10 m	*R* min. [factor x d] ≥ 10 m	*R* min. [factor x d] < 10 m	*R* min. [factor x d] ≥ 10 m	*R* min. [factor x d] < 10 m	*R* min. [factor x d] ≥ 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


chainflex® CF130.UL for woodworking. e-chain®: E4/light

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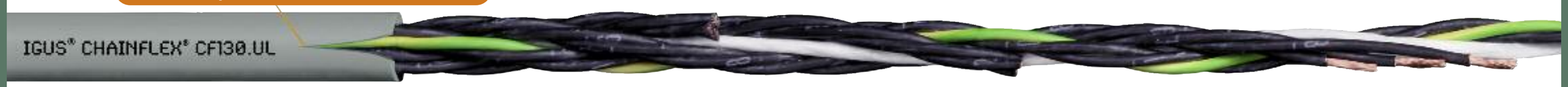

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF130.02.03.UL	3 x 0,25	5,0	9	25
CF130.02.04.UL	4 x 0,25	5,5	11	29
CF130.02.06.UL	6 x 0,25	6,0	17	49
CF130.02.07.UL	7 x 0,25	6,5	20	47
CF130.02.12.UL	12 x 0,25	8,5	35	98
CF130.02.20.UL	20 x 0,25	10,5	54	148
CF130.02.25.UL	25 x 0,25	11,5	70	158
CF130.02.30.UL	30 x 0,25	12,5	80	189
CF130.03.02.UL	2 x 0,34	5,0	8	26
CF130.03.05.UL	5 x 0,34	6,0	19	41
CF130.05.02.UL	2 x 0,5	5,5	11	38
CF130.05.03.UL	3 G 0,5	5,5	17	40
CF130.05.04.UL	4 G 0,5	6,0	22	48
CF130.05.05.UL	5 G 0,5	6,5	28	57
CF130.05.07.UL	7 G 0,5	7,5	39	78
CF130.05.12.UL	12 G 0,5	10,0	66	143
CF130.05.18.UL	18 G 0,5	12,0	99	188
CF130.05.25.UL	25 G 0,5	13,5	138	268
CF130.07.02.UL	2 x 0,75	6,0	16	42
CF130.07.03.UL	3 G 0,75	6,0	24	51
CF130.07.04.UL	4 G 0,75	6,5	32	59
CF130.07.05.UL	5 G 0,75	7,0	40	71
CF130.07.07.UL	7 G 0,75	8,0	56	98
CF130.07.12.UL	12 G 0,75	11,5	96	158
CF130.07.18.UL	18 G 0,75	13,5	143	235
CF130.07.25.UL	25 G 0,75	15,5	198	355
CF130.07.36.UL	36 G 0,75	18,5	313	550
CF130.07.42.UL(1)	42 G 0,75	21,0	365	632
CF130.10.02.UL	2 x 1,0	6,0	22	52
CF130.10.03.UL	3 G 1,0	6,5	32	62
CF130.10.04.UL	4 G 1,0	7,0	43	76
CF130.10.05.UL	5 G 1,0	7,5	53	92
CF130.10.07.UL	7 G 1,0	9,0	74	125
CF130.10.12.UL	12 G 1,0	12,0	127	206
CF130.10.18.UL	18 G 1,0	14,5	191	290
CF130.10.25.UL	25 G 1,0	17,0	264	411

(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

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF130.15.02.UL	2 x 1,5	7,0	32	64
CF130.15.03.UL	3 G 1,5	7,0	48	79
CF130.15.04.UL	4 G 1,5	8,0	64	100
CF130.15.05.UL	5 G 1,5	8,5	80	120
CF130.15.07.UL(17)	7 G 1,5	9,5	111	160
CF130.15.12.UL	12 G 1,5	13,0	191	287
CF130.15.18.UL	18 G 1,5	17,5	286	484
CF130.15.25.UL	25 G 1,5	19,5	396	617
CF130.15.36.UL(1)	36 G 1,5	23,5	624	932
CF130.15.42.UL(1)	42 G 1,5	26,5	729	1084
CF130.25.03.UL	3 G 2,5	8,5	80	123
CF130.25.04.UL	4 G 2,5	9,5	106	153
CF130.25.07.UL(17)	7 G 2,5	12,0	185	261
CF130.25.12.UL	12 G 2,5	17,5	317	530
CF130.40.03.UL	3 G 4,0	10,0	127	196
CF130.60.04.UL	4 G 6,0	13,5	254	387
CF130.60.05.UL	5 G 6,0	14,5	319	491

(17) Using the cables with "7 G 1,5 mm²" and "7 G 2,5 mm²" it is essential: bending radius 17 x d with travel distance ≥ 5 m.
When the travel distance is not less than 5 m, a bending radius not less than 17 x d has to be used.
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
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