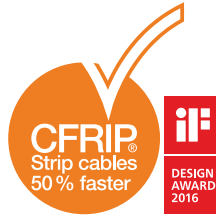


Control cable | PVC | chainflex® CF130.UL

- For medium duty applications
- PVC outer jacket
- Flame retardant



Dynamic information

| | |
|------------------------|--|
| Bend radius | e-chain® linear minimum 7.5 x d flexible minimum 6 x d fixed minimum 4 x d |
| Temperature | e-chain® linear +5 °C to +70 °C flexible -5 °C to +70 °C (following DIN EN 60811-504) fixed -15 °C to +70 °C (following DIN EN 50305) |
| v max. | unsupported 3 m/s gliding 2 m/s |
| a max. | 20 m/s ² |
| Travel distance | Unsupported travel distances and up to 50 m for gliding applications, Class 4 |
| Torsion | ± 90°, with 1 m cable length, Class 2 |

Cable structure

| | |
|----------------------------|---|
| Conductor | Finely stranded conductor consisting of bare copper wires (following DIN EN 60228). |
| Core insulation | Mechanically high-quality TPE mixture. |
| Core structure | Number of cores < 12: Cores wound in a layer with a short pitch length. Number of cores ≥ 12: Cores wound in bundles which are then wound around a high tensile strength centre element, all with optimised short pitch lengths and directions. |
| Core identification | Cores < 0.5 mm²: Colour code in accordance with DIN 47100. Cores ≥ 0.5 mm²: Black cores with white numerals, one core green-yellow. |
| Outer jacket | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-4-1). Colour: Silver-grey (similar to RAL 7001) |
| CFRIP® | Strip cables faster: a tear strip is moulded into the outer jacket Video ► www.igus.eu/CFRIP |

Electrical information

| | |
|------------------------|--------------------------------------|
| Nominal voltage | 300/500 V (following DIN VDE 0298-3) |
| Testing voltage | 2000 V (following DIN EN 50395) |

Example image

igus® chainflex® CF130.UL

| | | | | | | | | | |
|--------------------|-------------|---|---|---|-------|---------|---|---|---------|
| Basic requirements | low | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| Travel distance | unsupported | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 400 m |
| Oil resistance | none | 1 | 2 | 3 | 4 | highest | | | |
| Torsion | none | 1 | 2 | 3 | ±180° | | | | |

Class 4.4.1.2

Properties and approvals

| | |
|------------------------|---|
| Flame retardant | According to IEC 60332-1-2, CEI 20-35, FT1, VW-1 |
| Silicone-free | Free from silicone 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. |
| EAC | Certificate no. RU C-DE.ME77.B.01254 (TR ZU) |
| CTP | Certificate no. C-DE.PB49.B.00416 (Fire safety) |
| CEI | Following CEI 20-35. |
| Lead-free | Following 2011/65/EU (RoHS-II). |
| Cleanroom | According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1. |
| CE | Following 2014/35/EU. |

Guaranteed lifetime according to guarantee conditions (Page 22-23)

| Double strokes* | 5 million | | 7.5 million | | 10 million | |
|---------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | < 10 m | ≥ 10 m | < 10 m | ≥ 10 m | < 10 m | ≥ 10 m |
| Temperature, from/to [°C] | 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] |
| +5/+15 | 10 | 12.5 | 11 | 13.5 | 12 | 14.5 |
| +15/+60 | 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? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For medium duty applications
- Without influence of oil
- Preferably indoor applications
- Unsupported travel distances and up to 50 m for gliding applications
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment



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



Control cable | PVC | chainflex® CF130.UL

Strip cables 50% faster

igus® chainflex® CF130.UL

Example image

| Part No. | Number of cores and conductor nominal cross section [mm²] | Outer diameter (d) max. mm | Copper index kg/km | Weight kg/km |
|----------------|---|----------------------------|--------------------|--------------|
| CF130.02.03.UL | 3x0.25 | 5.0 | 9 | 25 |
| CF130.02.04.UL | 4x0.25 | 5.5 | 11 | 29 |
| CF130.02.06.UL | 6x0.25 | 6.0 | 17 | 49 |
| CF130.02.07.UL | 7x0.25 | 6.5 | 20 | 57 |
| CF130.02.12.UL | 12x0.25 | 8.5 | 35 | 98 |
| CF130.02.20.UL | 20x0.25 | 10.5 | 54 | 148 |
| CF130.02.25.UL | 25x0.25 | 11.5 | 70 | 158 |
| CF130.02.30.UL | 30x0.25 | 12.5 | 80 | 189 |
| CF130.03.02.UL | 2x0.34 | 5.0 | 8 | 26 |
| CF130.03.05.UL | 5x0.34 | 6.0 | 19 | 41 |
| CF130.05.02.UL | 2x0.5 | 5.5 | 11 | 38 |
| CF130.05.03.UL | 3G0.5 | 5.5 | 17 | 40 |
| CF130.05.04.UL | 4G0.5 | 6.0 | 22 | 48 |
| CF130.05.05.UL | 5G0.5 | 6.5 | 28 | 57 |
| CF130.05.07.UL | 7G0.5 | 7.5 | 39 | 78 |
| CF130.05.12.UL | 12G0.5 | 10.0 | 66 | 143 |
| CF130.05.18.UL | 18G0.5 | 12.0 | 99 | 188 |
| CF130.05.25.UL | 25G0.5 | 13.5 | 138 | 268 |
| CF130.07.02.UL | 2x0.75 | 6.0 | 16 | 42 |
| CF130.07.03.UL | 3G0.75 | 6.0 | 24 | 51 |
| CF130.07.04.UL | 4G0.75 | 6.5 | 32 | 59 |
| CF130.07.05.UL | 5G0.75 | 7.0 | 40 | 71 |
| CF130.07.07.UL | 7G0.75 | 8.0 | 56 | 98 |
| CF130.07.12.UL | 12G0.75 | 11.0 | 96 | 158 |
| CF130.07.18.UL | 18G0.75 | 13.5 | 143 | 235 |
| CF130.07.25.UL | 25G0.75 | 16.0 | 198 | 355 |
| CF130.07.36.UL | 36G0.75 | 19.0 | 313 | 550 |
| CF130.07.42.UL | 42G0.75 | 21.0 | 365 | 632 |
| CF130.10.02.UL | 2x1.0 | 6.0 | 22 | 52 |
| CF130.10.03.UL | 3G1.0 | 6.5 | 32 | 62 |
| CF130.10.04.UL | 4G1.0 | 7.0 | 43 | 76 |
| CF130.10.05.UL | 5G1.0 | 7.5 | 53 | 92 |
| CF130.10.07.UL | 7G1.0 | 9.0 | 74 | 125 |
| CF130.10.12.UL | 12G1.0 | 12.5 | 127 | 206 |
| CF130.10.18.UL | 18G1.0 | 15.0 | 191 | 290 |
| CF130.10.25.UL | 25G1.0 | 17.5 | 264 | 411 |

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

Class 4.4.1.2

Basic requirements
Travel distance
Oil resistance
Torsion

| | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---------|
| low | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| unsupported | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 400 m |
| none | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| none | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ±180° |

| Part No. | Number of cores and conductor nominal cross section [mm²] | Outer diameter (d) max. mm | Copper index kg/km | Weight kg/km |
|-------------------------------|---|----------------------------|--------------------|--------------|
| CF130.15.02.UL | 2x1.5 | 7.0 | 32 | 64 |
| CF130.15.03.UL | 3G1.5 | 7.0 | 48 | 79 |
| CF130.15.04.UL | 4G1.5 | 8.0 | 64 | 100 |
| CF130.15.05.UL | 5G1.5 | 8.5 | 80 | 120 |
| CF130.15.07.UL ¹⁷⁾ | 7G1.5 | 9.5 | 111 | 160 |
| CF130.15.12.UL | 12G1.5 | 13.0 | 191 | 287 |
| CF130.15.18.UL | 18G1.5 | 17.5 | 286 | 484 |
| CF130.15.25.UL | 25G1.5 | 19.5 | 396 | 617 |
| CF130.15.36.UL | 36G1.5 | 23.5 | 624 | 932 |
| CF130.15.42.UL ¹¹⁾ | 42G1.5 | 26.5 | 729 | 1084 |
| CF130.25.03.UL | 3G2.5 | 8.5 | 80 | 123 |
| CF130.25.04.UL | 4G2.5 | 9.5 | 106 | 153 |
| CF130.25.07.UL ¹⁷⁾ | 7G2.5 | 12.0 | 185 | 261 |
| CF130.25.12.UL | 12G2.5 | 17.5 | 317 | 530 |
| CF130.40.03.UL | 3G4.0 | 10.0 | 127 | 196 |
| CF130.40.05.UL | 5G4.0 | 12.0 | 212 | 313 |
| CF130.60.04.UL | 4G6.0 | 13.5 | 254 | 387 |
| CF130.60.05.UL | 5G6.0 | 14.5 | 317 | 467 |
| CF130.160.05.UL | 5G16.0 | 22.5 | 845 | 1135 |

¹¹⁾ Phase-out model
¹⁷⁾ When using the cables with „7 G 1.5 mm²“ and „7 G 2.5 mm²“ minimum bend radius must be 17.5 x d with gliding travel distance ≥ 5 m.
Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core x = without earth core

Order example: **CF130.02.03.UL** – to your desired length (0.5 m steps)
CF130.UL chainflex® series .02 Code nominal cross section .03 Code Number of cores

Online order ► www.chainflex.eu/CF130.UL

Delivery time 24h or today.
Delivery time means time until shipping of goods.

Guarantee
igus chainflex
36
month guarantee

UL US

NFPA

CE

EAC

IP

CE

RoHS-II

Clean-Room

igus

CE