

Motor cable | PVC | chainflex® CF30

**10 million**
Guaranteed double strokes**7.5 x d**
Bend radius, e-chain®**100 m**
Travel distance, e-chain®

- For heavy duty applications
- PVC outer jacket
- Oil-resistant
- 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 up to +70 °C
	flexible	-5 °C up to +70 °C (following DIN EN 60811-504)
	fixed	-15 °C up to +70 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	5 m/s
a max.		80 m/s ²



Travel distance Unsupported travels and up to 100 m for gliding applications, Class 5



Torsion Torsion ±90°, with 1m cable length, Class 2

Cable structure



Conductor Cores < 10 mm²: Stranded conductor in especially bending-resistant version consisting of bare copper wires (following DIN EN 60228).
Cores ≥ 10 mm²: Conductor cable consisting of pre-leads (following DIN EN 60228).

**Core insulation** Mechanically high-quality, especially low-capacitance XLPE mixture.**Core structure** Cores wound with a short pitch length around a high tensile strength centre element.**Core identification** Black cores with white numbers, one green-yellow core.
1. Core: U / L1 / C / L+ 2. Core: V / L2
3. Core: W / L3 / D / L- 4. Core: 4 / N**Outer jacket** Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-4-1).
Colour: Jet black (similar to RAL 9005)**CFRIP®** Strip cables faster: a tear strip is moulded into the outer jacket
Video ► www.igus.eu/CFRIP

Electrical information

**Nominal voltage** 600/1000 V (following DIN VDE 0298-3)
1000 V (following UL)**Testing voltage** 4000 V (following DIN EN 50395)EPLAN download, configurators ► www.igus.eu/CF30

36 month guarantee ... 1,354 types from stock ... no cutting charges



Class 5.5.2.2

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	highest			
none	1	2	3	4	±360°			

Properties and approvals

**UV resistance** Medium**Oil resistance** Oil-resistant (following DIN EN 50363-4-1), Class 2**Flame retardant** According to IEC 60332-1-2, FT1, VW-1**Silicone-free** Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)**UL verified** Certificate No. B129699: „igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“
See data sheet for details ► www.igus.eu/CF30**UL/CSA AWM****NFPA**

Following NFPA 79-2018, chapter 12.9

**EAC**

Certificate No. RU C-DE.ME77.B.02324 (TR ZU)

**CTP**

Certificate No. C-DE.PB49.B.00420 (Fire protection)

**REACH**

In accordance with regulation (EC) No. 1907/2006 (REACH)

**Lead-free**

Following 2011/65/EC (RoHS-II/RoHS-III)

**Cleanroom**According to ISO Class 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1
Following 2014/35/EU**CE**

Guaranteed service life (details see page 26-27)

Double strokes*	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

* Higher number of double strokes? Service life calculation online ► www.igus.eu/chainflexlife

Typical mechanical application areas

- For heavy duty applications, Class 5
- Unsupported travels and up to 100 m for gliding applications, Class 5
- Light oil influence, Class 2
- Torsion ±90°, with 1m cable length, Class 2
- Preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- Storage and retrieval units for high-bay warehouses, machining units/ packaging machines, quick handling, indoor cranes

UL-verified chainflex® guarantee ... www.igus.eu/ul-verified

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Strip cables 50 % faster



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]
CF30.15.04	4G1.5	8.0	61	104
CF30.25.04	4G2.5	10.0	100	166
CF30.25.05	5G2.5	11.0	124	203
CF30.40.04	4G4.0	11.5	163	249
CF30.40.05	5G4.0	12.5	204	302
CF30.60.04	4G6.0	13.5	237	343
CF30.60.05	5G6.0	15.0	297	410
CF30.100.04	4G10	16.5	407	548
CF30.100.05	5G10	19.5	515	684
CF30.160.04	4G16	20.0	646	826
CF30.160.05	5G16	23.5	815	1067
CF30.250.04	4G25	25.0	1014	1320
CF30.350.04	4G35	28.5	1439	1795
CF30.500.04	4G50	34.0	2061	2528

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

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Order example: CF30.15.04 – to your desired length (0.5 m steps)
CF30 chainflex® series .15 Code nominal cross section .04 Number of cores

Online order ► www.chainflex.eu/CF30

Delivery time 24hrs or today.
Delivery time means time until goods are shipped.

cost down...



...life up

Reduce cost, improve technology, now!

Do the chainflex® price check now ...
www.igus.eu/cf-price-check

... for example: Reduce cost with CF885

Guarantee
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36
month guarantee

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