



10 million

Double strokes guaranteed



7.5 x d

Bend radius, e-chain®



100m

Travel distance, e-chain®

- For heavy duty applications
- PVC outer jacket
- Oil-resistant
- Flame-retardant

Now with 90°C
UL/CSA AWM
approval

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

10m/s



a max.

gliding

5m/s



Travel distance

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



Torsion

Torsion ±90°, with 1m cable length, Class 5

Cable structure



Conductor

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

Cores ≥ 10mm²: Conductor cable consisting of pre-leads (following DIN EN 60228). Mechanically high-quality, especially low-capacitance XLPE mixture.



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.sk/CFRIP

Electrical information



Nominal voltage

600/1,000V (following DIN VDE 0298-3)



Testing voltage

1,000V (following UL)

4,000V (following DIN EN 50395)

4-year guarantee ... more than 1,350 cable types from stock ... no cutting costs

Basic requirements
Travel distance
Oil resistance
Torsion

low 1 2 3 4 5 6 7 highest
unsupported 1 2 3 4 5 6 ≥ 400m
none 1 2 3 4 highest
none 1 2 3 4 ±360°

Class 5.5.2.2

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, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame



Silicone-free

Free from silicone which can affect paint adhesion (following PV 3.10,7 – status 1992)



PTFE-free

The design of these products does not contain PTFE



UL-verified

Certificate No. V293650: „igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“



UL/CSA AWM

See data sheet for details ► www.igus.sk/CF30

NFPA

Following NFPA 79-2018, chapter 12.9



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



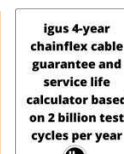
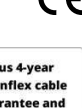
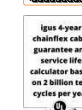
Guaranteed service life (details see page 14-15)

Double strokes*	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [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.sk/chainflexlife

Typical application areas

- For heavy-duty applications, Class 5
- Unsupported travels and up to 100m 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, machining units/packages machines, quick handling, indoor cranes

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

Strip cables 50% faster with CFRIP® tear strip

igus® chainflex® CF30

Image exemplary

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]	Shop and prices online
CF30.15.04	4G1.5	8.0	61	104	 www.igus.sk/ CF30
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 ¹⁾	4G50	34.0	2061	2528	

¹⁾ Phase-out model

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



Cables available in the chainflex® CASE

Simple savings on delivery, storage space and re-ordering with the chainflex® CASE - ship'n store by igus®.

More on this online: www.igus.sk/cf-case



Order example: **CF30.15.04** - to your required length (0.5m steps)

CF30 chainflex® series .15 Code nominal cross section .04 Number of cores



Order online ► www.igus.sk/CF30



Delivery time 24hrs or today.

Delivery time means time until goods are shipped.

cost down...



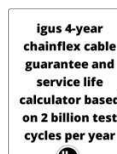
...life up

Reduce cost, improve technology, now!

Do the chainflex® price check ...

www.igus.sk/cf-price-check

... for example: reduce cost with CF885 ...



4-year guarantee ... more than 1,350 cable types from stock ... no cutting costs

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