

**12.5 million**
Double strokes guaranteed**7.5 x d**
Bend radius, e-chain®**400m**
Travel distance, e-chain®

- For heaviest duty applications
- TPE outer jacket
- Oil and bio-oil-resistant
- PVC and halogen-free
- UV-resistant
- Hydrolysis and microbe-resistant

**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	-35°C up to +90°C
		flexible	-50°C up to +90°C (following DIN EN 60811-504)
		fixed	-55°C up to +90°C (following DIN EN 50305)
	v max.	unsupported	10m/s
		gliding	6m/s
	a max.		80m/s ²
	Travel distance		Unsupported travels and up to 400m and more for gliding applications, Class 6
	Torsion		Torsion ±90°, with 1m cable length, Class 2

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	
	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, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®. 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) 1,000V (following UL)
	Testing voltage	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	7	≥ 400m
none	1	2	3	4	5	6	7	highest
none	1	2	3	4	5	6	7	±360°

Class 7.6.4.2

Properties and approvals

	UV resistance	High
	Oil resistance	Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
	Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	Halogen-free	Following DIN EN 60754
	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“ See data sheet for details ► www.igus.sk/CF37D
	UL AWM	
	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 1. The outer jacket material of this series complies with CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1
	Dry cleanroom	Tested in "dry cleanroom" according to DIN EN ISO 14644-1
	DESINA	According to VDW, DESINA standardisation
	CE	Following 2014/35/EU

Guaranteed service life (details see page 14-15)

Double strokes*	5 million	7.5 million	12.5 million
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [x d]
-35/-25	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

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

Typical application areas

- For heavy-duty applications, Class 7
- Unsupported travels and up to 400m and more for gliding applications, Class 6
- Almost unlimited resistance to oil, also with bio-oils, Class 4
- Torsion ±90°, with 1m cable length, Class 2
- Indoor and outdoor applications, UV-resistant
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, cleanroom, semiconductor insertion, outdoor cranes, low-temperature applications



igus 4-year
chainflex cable
guarantee and
service life
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cycles per year





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
CF37.15.04.D	4G1.5	8.0	61	95	 www.igus.sk/CF37D
CF37.25.04.D	4G2.5	10.0	100	149	
CF37.40.04.D	4G4.0	11.5	163	221	
CF37.60.04.D	4G6.0	13.5	237	317	
CF37.60.05.D	5G6.0	15.0	297	387	
CF37.100.04.D	4G10	16.5	407	503	
CF37.100.05.D	5G10	19.0	515	634	
CF37.160.04.D	4G16	20.0	646	773	
CF37.160.05.D	5G16	22.5	815	963	
CF37.250.04.D	4G25	24.0	1014	1203	

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: **CF37.15.04.D** - to your required length (0.5m steps)
CF37.D chainflex® series .15 Code nominal cross section .04 Number of cores



Order online ► www.igus.sk/CF37D



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



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



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 CF330.D ...



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

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