

**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
- Shielded
- 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
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a max.	gliding	80m/s²
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Travel distance	Unsupported travels and up to 400m and more for gliding applications, Class 6	
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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.	
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Core structure	Cores wound with a short pitch length around a high tensile strength centre element.	
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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	
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Inner jacket	TPE mixture adapted to suit the requirements in e-chains®.	
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Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%	
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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)	
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CFRIP®	Strip cables faster: a tear strip is moulded into the inner jacket Video ► www.igus.sk/CFRIP	
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Electrical information



Nominal voltage	600/1,000V (following DIN VDE 0298-3) 1,000V (following UL)	
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Testing voltage	4,000V (following DIN EN 50395)	
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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 7.6.4.1

Properties and approvals



UV resistance	High
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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
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Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
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Halogen-free	Following DIN EN 60754
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PTFE-free	The design of these products does not contain PTFE
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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/CF38
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UL AWM	
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REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
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Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
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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
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Dry cleanroom	Tested in "dry cleanroom" according to DIN EN ISO 14644-1
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CE	Following 2014/35/EU
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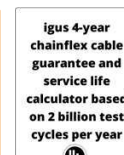
Guaranteed service life (details see page 14-15)

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
- No torsion, Class 1
- 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

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

igus® chainflex® CF38

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
CF38.15.04	(4G1.5)C	10.0	89	140	
CF38.25.04	(4G2.5)C	11.5	133	198	
CF38.40.04	(4G4.0)C	13.0	203	280	
CF38.60.04	(4G6.0)C	16.0	288	409	
CF38.100.04	(4G10)C	18.5	468	613	
CF38.160.04	(4G16)C	23.0	738	943	
CF38.250.04	(4G25)C	27.0	1153	1432	
New CF38.60.03.O.PE	(3x6.0)C	14.5	229	323	
CF38.100.03.O.PE	(3x10)C	17.0	358	494	
CF38.160.03.O.PE	(3x16)C	20.5	565	762	
New CF38.250.03.O.PE	(3x25)C	24.5	880	1122	www.igus.sk/CF38
CF38.500.03.O.PE	(3x50)C	33.0	1714	2129	

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: **CF38.15.04** - to your required length (0.5m steps)

CF38 chainflex® series .15 Code nominal cross section .04 Number of cores



Order online ► www.igus.sk/CF38



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 CF340 ...



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

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