

chainflex® CF340

New

**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 available with
UL approval & 25%
longer service life**

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.	100m/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	Conductor cable consisting of pre-leads (following DIN EN 60228).
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Core insulation	Mechanically high-quality TPE mixture.
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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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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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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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Image exemplary

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



UL-verified



UL AWM



REACH



Lead-free



Cleanroom



Dry cleanroom



CE

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/CF340

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

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

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

Tested in "dry cleanroom" according to DIN EN ISO 14644-1

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
- 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

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
CF340.40.01	(1x4.0)C	6.5	57	73	 www.igus.sk/CF340
CF340.100.01	(1x10)C	8.0	121	141	
CF340.160.01	(1x16)C	10.0	184	215	
CF340.250.01	(1x25)C	12.0	280	319	
CF340.350.01	(1x35)C	13.0	395	433	
CF340.500.01	(1x50)C	15.0	536	574	
CF340.700.01	(1x70)C	17.5	779	832	
CF340.950.01	(1x95)C	21.0	1015	1093	
CF340.1200.01	(1x120)C	22.0	1270	1341	
CF340.1500.01	(1x150)C	24.5	1592	1642	
CF340.1850.01	(1x185)C	27.5	2066	2157	
CF340.2400.01	(1x240)C	30.5	2566	2731	

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